MAGNETIC OBSERVATIONS

IN

THE YEAR 1905.

MAGNETIC OBSERVATORY.

It is placed within the circle of the Central Meteorological Observatory at the altitude of 21 metres above the mean sea-level. Its geographical co-ordinates are

Longitude 139° 45′ E.
Latitude 35° 41′ N.

The observatory was first established in 1890. It was rebuilt in July of 1897. The building is constructed of wood, with exclusion of iron, and the supports for instruments are made of marble, placed on the masonry work of white bricks which are free from magnetic ingredients. The observation rooms are put under the ground, and great care is taken to keep off the sudden changes in temperature. There are two rooms, with the stair case running in the N-S direction between them. In the eastern there is a set of Mascart's self-registering magnetograph, and in the western the apparatus for the direct reading.

ABSOLUTE MEASUREMENT OF MAGNETIC ELEMENTS.

Absolute measurement is made twice every month, and in each measurement the horizontal intensity and the dip are generally observed three or four times and the declination in such a manner that it is sufficient to obtain a curve of diurnal variation.

The declination and the horizontal intensity are measured by means of instrument devised by Prof. Tanakadate, which is described in a paper published in the Proceeding of the Royal Society of Edinburgh (1884-6) and also in the Journal of the college of Science, Imperial University, Japan (Vol.II., Part III). It will be sufficient here to give a short description which is chiefly the extraction of the papers.

Declination.—The declinometer is built upon a theodolite which in its ordinary form serves for all the astronomical observations. The magnetometer stage resting on tripods is fitted to the centre of the theodolite base, being able to be fixed either to the base of the theodolite or to the Y's by means of a screw projected downward from the centre of the base of the stage. A telescope with a mirror and a lamp are fixed to the stage.

The magnetometer case is set upon the stage and can be levelled by four screws at the upper surface of the stage and centered by other four screws at its vertical sides. The magnet is a small hollow cylinder piercing a mirror centrally perpendicular to its plane. Mirror and magnet are fastened to an aluminium stem, whose lower end is broadened, so that it may, when necessary, be securely gripped by means of a vice fitted to the lower part of the case. The suspension is made by means of a spider line.

The peculiar feature of the declinometer is a coil of wire, wound on a flat ractangular frame of brass in two separate parts, a certain portion in the middle being left vacant. Two pivots project from the middle of the sides in a direction perpendicular to the axis of the coil. These pivots are hollow, and are made of the same external diameter as those of the telescope belonging to the theodolite. The upper and lower surfaces are pierced so as to allow the magnetometer to project above the coil.

To bring the coil into adjustment, it is necessary to operate as follows. Place the stage and magnetometer on the theodolite, and mount the coil with its pivots resting on the Y's. Adjust the Y's into an approximate east and west direction by sighting the freely hanging mirror edge-on through the pivot cores. Lay the coil horizontal, so that the ends of the coil now face north and south. Adjust the centering of the magnetometer and place the small telescope with attached scale and lamp-counterpoise in due position. Clamp the stage and all its bearings to the base of theodlite, thus rendering them quite free of the Y's and consequently the coil being able to be turned round independent of every thing else. The magnetometer stage is adjusted until some convenient division on the scale, as reflected from the magnet mirror, is brought to coincidence with the cross-wire of the observing telescope. Thus all things are prepared.

The coil is now in circuit with a small dry battery This is done by communicating it with the resistance box, whose terminals are joined to the poles of the battery and which enables to change the direction of the current. At the first trial the direction of the current should be such as to make the magnetic field due to the current in the coil have the same (general) direction as that of the earth. This is readily judged of by the quickened movement of the magnet. The reflected image of the scale will in general be seen to move. With the current always on, let the azimuth of the coil be shifted until the originally observed reading of the scale is brought back again to the cross wires. Since the magnetometer and telescope have been absolutely fixed in position during

the whole operation, this gives to the first approximation the direction of the declination. The current is now reversed. In general, the result of this will be that the image of the zero scale reading will slowly move to one or other side of the cross wire. The resistance is then adjusted until the current is such as to cause the time of oscillation of the magnet to be some three or four times as long as that under the earth's force alone. The original division of the scale is again brought back to the cross wire by carefully adjusting the azimuth of the coil. If the current is now broken and the scale image does not shift, it is certain that the magnetic axis of the coil lies in the magnetic meridian. The reading on the theodolite gives its azimuth. An exactly similar observation is made with the coil reversed as regards east and west. Next, two such observation must be made in overturning the coil up and down. The mean of the four readings gives the declination at that instant corresponding to the mean of the two instances of the first and the last adjustments, quite independent of any errors resulting from any (slight) deviation from perpendicurality between the axis of the pivots and the line of magnetic force at the centre of the coil due to the current in it and from any deviation of the centre of the coil from that of the magnet. A complete observattion usually takes four or five minutes.

Horizontal Intensity.—For the determination of the horizontal intensity, the declinometer must be removed and in its place a deflection bar substituted. The bar is made of brass and has a V-groove on its upper surface—or rather two V-grooves extending the one to the east and the other to the west, when the instrument is mounted ready for use. Where the bar rests on the Y's, it is made in the form of the semi-cylinder—the upper surface being flat, the lower having the same curvature as the pivots of the theodolite telescope and the declinometer coil. Between the Y's, the bar swells out into an oblate ring, through which the magnetometer projects. A semi-circular groove is cut in front of the ring, so that the magnet mirror can be sighted by the small telescope. On the V-groove of the bar there are four stops two on each side of the centre. The deflection magnet rests in the groove, and the stops are so placed that the two distances of the magnet from the centre are obtained simply by slipping the magnet along the groove from one stop to the other, without having to lift it out. The stops are placed so as to make the ratio of the two distances the best possible, according to the usual rule.

The instrument is obviously available for use either according to the method of sines or the method of tangents. The former method is the preferable one; and in using it, it is necessary to clamp the stage to the Y's, and free it from the base of the theodolite. The operations are then conducted exactly as with the Kew instrument. The temperature of the bar is measured by means of two thermometers placed in its opposite sides beyond the further stops. It is advisable to dust with a small brush the surfaces of the magnet and stop just before they are brought togethrr. The chronometer time is taken as the final deflection is adjusted. The beginning of the experiment is given by the first time record in the vibration experiment, which it was found most convenient to make first. The mean of these times is taken as the time corresponding to the value of the horizontal force as finally deduced.

The vibration experiment is made in a vibration box somewhat similar in construction to the one used in the Kew instrument. It is mounted on a second tripod, so that the magnetometer stage need never be removed until tht theodolite has to be used for the astronomical observations. The magnet is suspended by two loops of silk from the end of a silk fibre freed from twist in the usual way and its horizontality is well adjusted. A horizontal vibration of about half a degree is given to the magnet, and it is observed by means of a telescope. The observer signals the instant of transit of the middle point of the swing, and these are noted down by racorder at some distance. The temperature is observed at the beginning and the end of the experiment with a thermometer attached to the inside of the glass window of the box, the mean of two readings being taken as the temperature in the vibration experiment.

For determining the horizontal intensity all the necessary corrections are applied. The torsion and arc correction are applied in the usual way; the time correction is applied so as to reduce the time-unit at once to the mean solar second; besides these we may mention the corrections for induction, expansion of steel magnet and of the brass, which constitutes V-groove on which the magnet is to be placed in the deflection experiment, and the correction for the temperature difference in the vibration and the deflection experiments.

The vibration experiment is usually taken before the deflection experiment. From the firrt recorded swing to the last deflection adjustment the whole experiment generally takes about 20 minutes.

Dip.—The observations of dip are made by means of a dip circle of Casella. The magnetization of the needle is reversed by means of an electro-magnetic coil. A complete observation usually takes 20 minutes.

The astronomical meridian is sometimes determined by observations of circumpolar stars. Thus, the azimuth of the top of a tower of a Cathedral Nicoli at a distance of about 1.5 km. is often tested. The reading of the meridian is usually reduced from that of the object.

PHOTOGRAPHIC RECORDS OF MAGNETIC ELEMENTS.

Photographic records of magnetic elements are made by means of a Mascart's magnetograph. Let us shortly describe the arrangement of the instrument and the method of reduction.

THE ARRANGEMENT OF THE APPARATUS.

Declinometer.—It is contained in a metal case with a tube on its cover. From the upper end of the tube, a magnet with a mirror perpendicular to its direction is freely suspended by means of a fine silk thread. There is a second mirror fixed to the base of the case. Thus, the rays of light falling upon the two mirrors reflect on a photographic paper moving by a clock-work, one tracing the curve of variation of the magnetic needle and other the fixed line.

bifilar magnetometer.—Its construction is similar to thet of declinometer. But, in this case, the magnet with a mirror parallel to its direction is suspended by means of two fine silk threads and put in equilibrium in the direction perpendicular to the magnetic meridian in virtue of the couples due to the horizontal intensity and the torsion. Its sensibility can be adjusted by regulating the distance between the two points of suspension. The light reflected from the mirror traces the variation of the horizontal intensity.

Magnetic balance.—It is a magnetic balance with a hole in its central portion. There is, in the hole, a knife-edge by means of which the magnet rests on an agate plane, and the magnet is placed horizontally by adjusting the position of its centre of gravity by means of a small index attached to it, the couple due to the vertical intensity equilibrating with that due to gravity. The sensibility can be adjusted by means of two weights movable in the horizontal and vertical ones attached to the magnet. The whole is contained in a metal case. There are two horizontal mirrors, one fixed to the case, and the other to the magnet. At the central portion of the cover of the case, there is a hole on which an isosceles rectangular prism is placed, the two faces being put horizontally and vertically. Thus, the light falling upon the vertical face of the prism is refracted towards the mirrors and again reflected and traces the variation of the vertical intensity and the fixed line.

METHOD OF REDUCTION.

The hourly ordinates of the three magnetic curves are at first measured in millimetres and the tenths.

For declination, the ordinate values are then reduced into minutes by multiplication of the factor 1.'36 which is the angular value for 1 mm. of the paper. The ordinates measured for the times of the absolute measuremeants combined with the absolute values of declination, give the values of the base line, from which hourly values of declination are all reduced.

For the horizontal and vertical intensities, the ordinates of the curves are multiplied respectively by the factors $\triangle H$ and $\triangle Z$, which are the variations of the horizontal intensity (H) and the vertical intensity (Z) corresponding to 1 mm. of the paper. The mean values of $\triangle H$ and $\triangle Z$ for each month were as follows : —

	$\triangle H$	$\triangle Z$		$\triangle H$	$\triangle Z$
January	3.66×10^{-5}C.G.S.	3.58×10^{-5}C.G.S.	July	4.08×10^{-5}C.G.S.	4.80×10^{-5}C.G.S.
February	3.72 ,,	3.66 ,,	August	4.08 ,,	4.72 ,,
March	3.83 ,,	3.80 ,,	September	3.96 ,,	8.09 ,,
April	3.91 ,,	4.89 ,,	October	3.90 ,,	9.93 ,,
May	4.00 ,,	5.43 ,,	November	3.81 ,,	6.01 ,,
June	4.03 ,,	5.69 ,,	December	3.76 ,,	5.53 ,,

TEMPERATURE COEFFICIENTS OF BIFILAR AND BALANCE.

The temperature of the room where the photographic record is always made can not be constant, the range in a day sometimes amounting to nearly 1°.5 C. Thus, the temperature coefficients of the bifilar and the balance were determined in June. 1898. The result was as follows : —

	Temperature Coefficient for 1 °C.
Bifilar	20.73×10^{-5} C.G.S
Balance	30.45×10^{-5} ,,

DIRECT READING SYSTEM.

The system is essentially the same as the self-recording magnetograph. By means of this system, the variations obtained by photographic records are often tested.

HARMONIC ANALYSIS OF DIURNAL VARIATION OF MAGNETIC ELEMENTS.

Expressing the means of hourly values of magnetic elements for every month and the year by the formula.

$$f(t) = p_0 + p_1 \cos t + q_1 \sin t + p_2 \cos 2t + q_2 \sin 2t + p_3 \cos 3t + q_3 \sin 3t + p_4 \cos 4t + q_4 \sin 4t,$$

where t is the Central Standard Mean Time (mean time of the meridian 135° E) coverted into arc ; and f(t) the mean value of the magnetic element at the time t, the coefficients p_0, p_1, q_1, p_2, q_2, p_3, q_3, p_4, and q_4, were calculated. The result it given in page 48.

HOURLY VALUES

OF

MAGNETIC ELEMENTS

observed at the Central Meteorological Observatory, Tokio,

1905.

Time is given in the Central Standard Time (the civil mean time of the meridian 135° E.).

The declination is measured in degrees and minutes, the horizontal and vertical intensities in C. G. S. units. For the hourly values, the declination is given to 0.1 minute of arc; the intensities to the fifth decimal of the C. G. S. unit. For the mean values, one more figure is added, i.e. the declination is given to $0'.01$ and the intensities to 10^{-6} C. G. S. unit.

The mean values are taken only using all days of complete record. The values for intensities are all corrected for temperature.

The characters of the diurnal variation of the magnetic elements are divided into 5 classes:

Calm (C), Agitated (A), Light Storm (S°), Storm (S), and Severe Storm (S^2).

DECLINATION: 4°+ . . ′ . . W

JANUARY, 1905.

Day \ Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	45.3	45.5	45.8	45.7	45.5	45.4	45.1	44.9	44.1	44.1	44.6	45.5	46.2	46.4	46.0	45.0	44.6
2	45.3	45.1	45.3	45.5	45.8	45.8	45.8	44.7	43.8	43.8	44.7	45.1	46.4	46.2	46.0	45.0	44.7
3	45.1	45.3	45.8	45.8	45.8	45.8	45.8	45.8	44.6	43.9	44.5	45.7	46.0	46.0	46.0	45.8	44.7
4	45.3	45.4	45.3	45.7	45.8	45.8	44.8	45.1	44.1	43.6	44.1	45.1	45.7	45.3	45.8	45.1	44.6
5	45.5	44.5	45.8	45.8	46.0	46.0	47.6	47.3	46.1	45.8	46.8	46.5	46.1	45.8	45.4	44.9	44.9
6	44.7	47.2	44.5	45.8	47.0	46.0	47.0	46.5	48.7	46.5	46.1	46.5	46.6	46.0	46.5	46.2	46.1
7	45.8	46.6	45.8	45.8	45.8	46.1	46.0	46.1	44.9	45.8	46.2	47.0	46.9	46.4	45.8	45.8	45.3
8	45.3	44.9	45.3	45.7	45.7	45.9	45.7	45.0	45.0	45.0	45.9	46.8	46.8	46.7	45.9	45.6	45.4
9	45.3	45.4	45.4	45.6	45.6	45.6	45.7	45.2	44.2	44.5	45.7	47.1	47.4	47.1	46.8	45.4	44.9
10	45.2	45.6	45.4	45.3	45.4	45.4	45.2	44.8	44.2	44.1	44.9	45.7	46.1	46.0	46.3	45.7	45.2
11	45.4	45.4	45.0	45.3	45.7	45.2	46.0	45.7	44.9	45.2	46.4	47.4	47.6	46.9	46.1	45.7	46.4
12	44.5	44.8	45.2	44.4	44.6	45.2	45.7	45.4	44.5	44.4	45.7	46.3	45.7	45.2	44.6	44.4	44.9
13	45.6	45.4	45.3	45.0	45.2	45.6	46.3	45.7	45.0	44.6	45.9	47.2	47.9	47.6	47.1	45.6	45.2
14	45.6	45.6	45.5	45.5	45.6	45.6	45.6	44.9	43.4	42.9	44.3	46.3	47.5	47.8	46.3	45.1	43.7
15	45.6	44.9	44.8	44.4	45.2	44.8	45.8	45.8	46.2	45.8	47.4	47.7	47.3	47.0	46.8	45.8	45.1
16	45.6	45.8	45.8	45.6	45.6	45.8	45.6	44.4	43.6	43.6	44.9	46.7	47.1	47.5	47.4	46.8	45.6
17	45.6	45.6	45.8	45.6	45.8	46.0	45.9	44.7	41.9	43.7	44.8	46.6	47.5	46.6	46.6	46.4	45.6
18	44.4	44.4	44.5	45.6	45.8	46.2	47.0	45.6	44.0	43.4	44.5	46.3	47.0	47.0	46.2	45.6	45.2
19	44.9	45.1	45.6	45.6	46.0	46.3	46.3	45.5	43.7	44.9	44.4	45.5	45.8	46.0	46.0	45.8	45.1
20	45.2	44.7	44.7	45.2	45.8	45.8	46.1	45.8	44.2	43.3	44.2	45.5	46.1	46.6	46.3	45.7	45.5
21	44.8	45.2	45.4	45.5	45.5	46.5	46.6	45.5	44.2	43.5	44.6	46.2	46.9	46.7	46.3	45.5	45.5
22	45.2	45.2	45.2	45.5	45.7	46.1	46.1	45.5	44.2	42.8	44.2	45.5	46.9	47.0	47.2	46.7	45.8
23	45.5	44.3	45.0	45.5	45.5	46.9	45.5	44.7	43.5	44.2	45.0	45.5	46.3	46.2	46.1	45.9	45.5
24	45.8	45.8	45.7	45.8	45.8	46.2	45.7	44.2	42.5	42.7	44.2	45.9	46.9	46.9	46.9	45.5	44.7
25	45.9	45.5	45.8	45.7	45.8	47.0	47.0	44.7	43.2	43.6	45.2	46.9	47.0	47.7	46.9	45.9	45.5
26	46.2	45.2	45.7	45.7	45.9	45.8	45.5	45.4	43.6	44.3	45.4	47.8	48.6	48.2	46.7	45.5	45.5
27	45.8	45.8	45.9	45.8	45.9	45.8	45.5	44.2	43.5	44.2	45.9	48.2	48.9	48.4	47.2	45.5	45.1
28	45.8	45.7	46.2	45.8	45.8	45.8	46.1	45.8	44.2	44.4	45.8	48.8	49.5	48.5	47.2	45.5	45.0
29	45.4	45.8	45.9	46.7	45.9	45.5	45.5	44.2	44.2	44.2	44.7	46.6	48.4	48.8	47.0	46.3	46.9
30	45.9	46.1	46.9	46.3	46.3	46.5	46.1	44.7	44.6	45.2	46.2	48.2	48.9	48.8	48.1	46.3	45.7
31	46.2	46.5	46.5	46.2	46.1	46.1	45.5	44.2	43.3	45.1	45.8	45.8	46.9	48.1	47.7	46.9	46.2
Mean	45.41	45.43	45.51	45.59	45.74	45.80	45.94	45.23	44.26	44.29	45.26	46.55	47.06	46.92	46.49	45.71	45.29

Day	18	19	20	21	22	23	24	Mean	Maximum	Maximum h m	Minimum	Minimum h m	Range	Remarks a. m.	Remarks p. m.
1	45.0	44.6	44.7	45.0	45.0	45.1	45.3	45.22	46.4	14.00	44.1	9-10	2.3	C	C
2	45.0	45.1	45.1	45.3	45.5	45.5	45.1	45.27	46.5	13.30	43.8	9-10	2.7	C	C
3	45.1	45.3	45.1	45.7	45.3	45.3	45.1	45.39	46.1	13.10	43.9	10.00	2.2	C	C
4	45.1	44.7	45.8	44.9	45.7	44.3	45.1	45.09	45.8	15.00	43.6	10.00	2.2	C	C
5	44.9	45.0	45.7	44.9	44.9	45.3	45.4	45.66	47.6	7.00	44.5	2.00	3.1	C	C
6	46.4	46.1	46.1	46.5	44.6	46.2	46.0	46.26	50.3	5.18	43.9	3.25	[illegible]	S°	A
7	45.3	45.4	45.5	45.8	45.8	45.8	45.8	45.90	47.0	12.00	44.9	9.00	2.1	C	C
8	45.6	45.7	45.7	45.7	45.2	45.3	45.2	45.60	46.8	12.13	44.8	8.30	2.0	C	C
9	44.6	44.9	45.0	45.2	45.2	45.2	44.8	45.49	47.4	13.00	44.0	9.20	3.4	C	C
10	45.2	45.0	45.0	45.7	45.4	45.6	45.6	45.33	46.4	15.10	43.5	9.20	2.9	C	C
11	45.3	46.3	46.3	45.7	45.2	45.3	45.9	45.85	47.6	13.00	44.4	9.20	3.2	C	C
12	45.3	45.7	45.7	45.7	45.7	45.4	45.6	45.19	46.3	12.00	44.1	9.30	2.2	C	C
13	45.6	45.4	45.7	45.7	45.7	45.4	45.7	45.81	47.9	13.00	44.6	10.00	3.3	C	C
14	44.8	44.8	47.0	45.5	45.2	45.6	44.7	45.37	47.9	13.30	42.8	9.50	5.1	C	C
15	45.2	45.6	45.1	45.3	45.6	45.6	45.6	45.77	48.2	11.40	44.4	4.00	3.8	C	C
16	45.1	45.1	45.1	45.2	45.3	45.5	45.6	45.60	47.5	14.00	43.3	9.40	4.2	C	C
17	45.8	45.9	45.6	45.8	45.1	44.8	45.1	45.53	47.5	13.00	41.9	9.00	5.6	C	C
18	45.9	44.9	45.5	45.1	45.5	44.9	44.9	45.39	47.1	13.30	43.4	10.00	3.7	A	C
19	45.1	45.2	45.2	45.3	45.2	45.3	45.3	45.38	46.4	6.20	42.9	10.00	3.5	C	C
20	45.0	45.0	45.5	45.2	44.7	44.8	44.7	45.23	46.7	7.10	42.9	9.40	3.8	C	C
21	45.4	45.4	45.5	45.5	45.2	44.4	45.2	45.46	46.9	13.00	43.5	10.00	3.4	C	C
22	45.5	46.1	46.3	46.1	44.8	44.2	44.2	45.50	47.2	15.00	42.8	10.00	4.4	C	A
23	45.5	45.8	45.7	45.7	45.8	45.7	45.7	45.46	47.0	5.55	43.3	9.10	3.7	C	C
24	44.8	45.5	46.2	45.9	45.8	45.8	45.8	45.46	47.2	14.08	42.1	9.30	5.1	C	C
25	45.8	46.2	45.9	45.9	45.7	45.5	45.2	45.81	48.0	13.10	42.8	9.13	5.2	C	C
26	45.5	45.5	45.8	45.0	45.7	45.7	45.8	45.83	48.6	13.00	43.6	9.00	5.0	C	C
27	45.5	45.5	45.5	45.5	45.9	45.5	45.5	45.85	48.9	13.00	43.5	9.00	5.4	C	C
28	45.4	45.5	45.5	45.7	45.5	45.2	45.8	46.02	49.6	12.40	43.8	9.10	5.8	C	C
29	45.5	45.2	45.2	45.2	44.2	45.2	45.8	45.76	49.1	13.50	43.9	9.50	5.2	C	C
30	45.8	45.8	45.7	45.5	45.5	45.7	45.9	46.28	49.1	13.30	44.3	8.20	4.8	C	C
31	45.7	45.4	44.6	45.5	45.5	46.2	44.8	45.87	49.6	15.20	43.2	8.40	6.4	C	A
Mean	45.35	45.41	45.56	45.51	45.34	45.33	45.36	45.60	47.57		43.62		3.95		

DECLINATION: 4°+ . . ′ . . W

FEBRUARY, 1905.

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	45.5	45.9	45.8	46.5	47.4	46.1	46.9	44.7	42.5	44.2	47.2	48.2	48.9	49.3	47.4	46.9	45.5
2	45.5	45.5	45.5	45.9	45.9	45.9	46.9	44.2	44.4	43.3	46.1		...	...		47.6	46.9
3	45.7	46.1	46.1	46.1	46.3	46.3	45.5	43.3	41.4	43.7	44.8	46.9	46.2	48.1	48.2	47.7	47.6
4	46.1	46.8	46.4	46.8	49.1	49.5	52.2	47.9	46.1	46.2	46.8	...	45.6	47.9	47.1	47.2	46.8
5	47.5	46.9	46.8	48.9	46.9	46.9	46.1	44.3	43.0	43.0	45.6	47.6	49.5	49.5	48.1	47.3	46.6
6	46.1	46.1	46.4	46.2	46.8	46.5	45.4	43.9	43.0	44.1	45.1	46.6	47.2	48.1	48.0	46.8	46.2
7	46.5	46.4	46.1	46.2	46.5	46.5	46.0	44.2	42.8	44.1	46.6	48.1	48.4	48.0	47.3	46.1	46.1
8	45.6	46.1	45.6	46.2	45.4	45.4	45.6	43.7	43.0	44.2	46.8	48.1	48.8	49.4	48.1	47.3	46.2
9	45.7	46.0	45.8	46.0	46.5	46.2	44.9	43.2	42.4	43.7	45.3	48.0	49.6	50.0	49.5	47.3	46.2
10	45.7	45.8	45.8	46.1	46.8	46.1	45.6	44.1	42.6	42.7	44.6	46.1	47.5	48.3	49.1	48.1	46.9
11	45.3	45.6	46.1	46.1	46.5	46.0	45.0	43.0	41.5	41.5	44.0	44.5	45.3	46.4	47.8	47.8	46.1
12	45.9	46.1	46.1	46.4	46.3	46.3	45.9	43.4	41.8	41.9	44.0	46.1	47.1	47.1	47.4	47.1	45.9
13	45.5	46.0	46.0	45.9	45.7	45.1	45.3	43.0	41.1	43.8	45.0	47.0	46.3	48.9	49.4	48.3	...
14	45.6	45.7	45.7	45.9	46.3	46.0	46.1	44.1	43.3	43.8	45.3	47.0	47.8	48.0	47.9	47.8	46.3
15	45.0	45.3	45.5	46.0	45.7	46.1	47.9	45.2	44.2	44.8	45.9	47.4	47.0	47.4	47.0	47.0	47.2
16	45.3	45.6	46.1	46.0	45.9	45.9	45.7	44.0	42.1	42.9	45.0	46.3	46.8	48.6	48.4	47.9	
17	45.9	46.1	46.4	46.3	46.1	46.5	47.2	45.3	44.0	44.6	46.7	47.6	47.9	48.0	47.9	47.9	46.7
18	45.9	45.9	45.7	45.7	46.5	46.0	45.3	41.6	41.9	42.7	44.6	46.1	46.5	46.7	46.5	46.8	46.8
19	45.5	46.0	46.0	46.0	46.5	46.1	45.5	44.0	43.3	43.0	45.2	46.7	47.9	48.0	47.8	46.8	46.3
20	46.0	45.9	45.9	45.9	45.9	46.0	45.3	43.3	41.8	41.8	44.2	46.5	47.6	48.0	47.6	47.6	46.3
21	45.4	45.4	45.2	45.2	45.2	45.4	45.2	43.9	42.5	42.5	44.0	46.3	47.3	47.4	46.9	45.9	45.2
22	45.2	45.5	45.5	45.2	45.6	45.6	45.6	44.2	43.7	44.0	45.1	46.4	46.9	46.6	46.4	46.0	45.2
23	45.6	45.4	45.2	45.2	45.9	45.1	45.4	43.2	42.2	41.1	46.3	46.6	48.2	47.9	47.4	46.7	46.6
24	45.6	45.5	46.0	46.0	47.1	46.3	45.5	44.5	44.1	44.0	45.5	46.6	48.9	48.9	48.5	47.5	45.9
25	45.4	45.4	45.5	45.5	45.5	45.5	45.1	43.6	43.0	43.0	44.7	47.1	48.1	48.6	47.7	46.9	45.8
26	45.4	45.8	46.4	45.6	45.4	45.5	45.2	43.9	42.5	42.5	44.4	46.2	46.6	46.6	46.6	45.8	45.8
27	45.2	44.5	46.2	46.6	46.6	46.3	45.4	43.9	42.2	41.4	43.9	46.9	47.1	47.9	47.7	47.1	47.1
28	45.5	45.9	45.2	45.2	45.5	46.6	46.6	45.2	43.6	43.0	45.4	47.1	47.7	47.7	46.9	46.2	45.6
Mean	45.70	45.80	45.87	46.04	46.22	46.05	45.76	43.99	42.74	43.22	45.22	46.82	47.67	48.00	47.65	47.02	46.25

Day	18	19	20	21	22	23	24	Mean	Maximum	Maximum h m	Minimum	Minimum h m	Range	Remarks a. m.	Remarks p. m.
1	45.7	45.7	45.7	45.7	45.5	45.1	45.5	46.16	49.5	14.10	41.7	9.34	7.8	C	C
2	46.5	46.2	46.1	45.8	45.5	44.7	45.5	...	48.2	15.40	41.4	9.00	6.8	A	C
3	49.6	51.9	51.6	47.6	46.6	46.9	46.9	46.30	52.2	20.05	41.3	9.20	10.9	C	S°
4	46.8	46.8	46.8	46.6	46.1	46.6	47.2	...	51.9	6.50	45.3	9.35	6.5	S°	A
5	43.2	46.2	46.2	46.2	45.7	45.4	44.1	46.31	51.1	3.55	41.9	18.13	9.2	A	A
6	45.7	45.3	45.6	45.6	45.8	46.8	46.1	45.97	48.3	13.40	42.7	8.20	5.6	A	C
7	45.7	46.2	46.0	46.4	46.1	46.2	46.0	46.19	48.4	13.00	42.8	9.00	5.6	C	C
8	46.1	45.7	46.2	46.0	45.7	45.8	45.7	46.11	49.4	14.00	43.0	9.00	6.4	C	C
9	46.0	46.1	46.1	46.1	45.8	45.6	45.6	46.15	50.0	14.00	42.2	8.50	7.8	C	C
10	46.5	46.1	46.4	46.1	45.7	45.7	45.4	46.00	49.1	15.00	42.2	9.20	6.9	C	C
11	45.9	45.9	45.9	45.9	45.9	45.9	45.7	45.40	47.8	15-16	40.7	9.17	7.1	C	C
12	46.0	45.7	46.0	46.0	45.9	45.5	45.6	45.65	47.6	15.20	41.2	9.20	6.4	C	C
13	...	46.1	45.9	45.9	45.6	45.6	45.6	...	49.4	15.00	41.0	8.50	8.4	C	C
14	46.5	46.4	46.7	44.8	45.6	45.6	45.6	45.99	48.2	15.16	43.3	9.00	4.9	C	C
15	46.0	46.1	46.4	45.9	45.6	45.7	45.3	46.07	48.6	7.15	44.0	9.20	4.6	C	C
16	46.0	46.3	45.9	45.6	45.3	45.7	45.9	...	49.4	14.20	42.2	9.00	7.2	C	C
17	46.7	46.1	46.7	44.6	45.6	45.5	45.6	46.33	48.0	14.00	43.7	9.30	4.3	C	C
18	46.1	46.7	46.0	45.9	45.9	45.9	45.7	45.68	47.2	15.20	41.8	9.06	5.4	C	C
19	46.0	46.1	45.9	45.9	46.1	45.9	46.0	45.94	48.0	14.00	42.7	9.50	5.3	C	C
20	45.9	45.9	45.9	45.9	45.5	45.3	45.7	45.65	48.0	14.00	41.2	9.30	6.8	C	C
21	45.6	45.6	46.3	45.8	45.8	45.8	45.1	45.37	47.5	13.40	42.2	9.30	5.3	C	C
22	45.5	45.2	45.8	46.0	45.9	45.8	44.5	45.47	46.9	13.00	43.6	9.10	3.3	C	C
23	46.4	46.0	42.5	45.8	45.6	45.9	46.3	45.65	49.2	13.13	41.0	8.33	8.2	C	A
24	45.8	45.8	45.8	45.8	45.8	45.8	45.8	46.12	49.0	14.10	43.9	8.50	5.1	C	C
25	45.9	45.8	46.0	46.3	43.9	45.6	45.6	45.52	48.6	14.00	42.8	9.30	5.8	C	A
26	45.8	45.8	46.3	45.2	45.5	45.8	45.6	45.42	46.7	14.20	42.4	9.30	4.3	C	C
27	47.0	46.7	46.6	45.9	45.6	45.5	45.4	45.74	47.9	14.00	41.1	9.40	6.8	C	C
28	45.5	45.6	46.0	45.8	45.8	45.8	45.6	45.79	47.7	13.14	42.8	9.40	4.9	C	C
Mean	46.05	46.19	45.77	45.90	45.70	45.78	45.00	45.87	48.54		42.34		6.20		

DECLINATION: 4°+ . ′ . W

MARCH, 1905.

Day \ Hour	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	Maximum	h m	Minimum	h m	Range	Remarks a. m.	Remarks p. m.
1	45.5	45.4	45.5	45.5	45.2	45.8	44.9	43.3	42.6	42.5	43.6	45.2	46.6	47.7	47.3	46.6	45.9	45.4	45.6	45.6	45.5	46.6	45.9	45.4	45.38	47.7	14.00	42.4	9.40	5.3	C	C
2	45.5	45.5	45.6	45.9	46.3	46.3	45.5	44.0	43.2	43.7	45.2	46.6	47.4	47.9	48.2	49.2	48.3	50.4	49.2	46.6	44.7	44.9	45.2	46.3	46.32	**50.7**	18.15	**39.8**	22.28	10.9	C	A
3	48.7	50.0	45.5	47.9	47.9	47.1	47.3	46.6	45.2	45.4	46.6	48.8	49.3	49.8	49.2	48.2	46.6	46.9	46.6	46.6	46.0	46.3	46.3	46.0	47.28	**50.7**	1.54	42.5	2.57	8.2	S'	C
4	46.3	46.4	46.6	46.6	46.6	47.4	46.4	45.2	44.0	44.1	45.5	48.3	49.3	49.6	48.2	47.9	47.9	46.9	47.1	45.5	46.6	46.3	45.6	45.6	46.66	50.5	14.15	44.0	9.00	6.5	C	A
5	45.7	46.2	46.3	46.0	46.2	46.5	45.4	44.0	42.9	43.2	45.1	47.7	48.0	48.1	47.2	46.6	47.2	46.6	47.8	47.7	45.0	45.7	46.5	46.5	46.17	48.1	14.00	42.9	9.00	5.2	C	A
6	45.9	45.8	45.8	45.9	45.7	45.9	45.4	44.7	43.6	44.4	43.3	47.6	49.7	49.9	48.9	46.5	45.1	46.2	46.5	46.3	45.8	45.8	45.8	45.5	46.08	49.9	14.00	42.8	9.35	7.1	A	C
7	45.3	44.7	44.6	45.1	45.5	45.7	45.7	45.4	43.8	43.5	44.4	46.3	49.3	50.0	47.4	46.5	46.5	44.7	46.5	46.5	43.9	42.5	45.7	46.5	45.66	**50.7**	13.33	42.0	9.50	8.7	C	S'
8	46.2	45.9	46.2	46.2	46.3	47.0	45.8	43.6	43.1	42.9	44.2	46.5	47.4	48.0	48.2	47.6	46.6	45.8	45.8	45.5	46.2	46.3	45.4	46.1	45.95	48.5	14.20	41.6	8.36	6.9	A	A
9	45.9	46.2	45.7	46.5	45.7	46.5	45.7	43.1	43.9	44.6	46.3	47.8	47.4	47.0	45.3	45.1	45.4	46.2	46.5	45.5	46.2	46.2	45.8	45.7	45.84	47.8	12.00	42.9	8.20	4.9	C	C
10	45.8	45.8	45.9	45.7	45.9	46.3	45.5	43.9	43.1	44.7	45.9	47.3	47.7	47.7	46.5	45.8	45.7	45.8	46.1	46.1	45.8	46.1	45.9	45.8	45.87	47.8	13.20	43.1	9.00	4.7	C	C
11	45.7	45.8	45.8	45.8	45.7	45.5	44.6	43.1	41.9	43.2	45.1	47.2	48.0	48.0	47.4	46.8	46.2	46.1	45.9	45.9	45.9	45.9	45.8	45.3	45.69	48.0	13.14	41.7	9.10	6.3	C	C
12	45.7	45.8	45.8	45.7	45.7	45.5	44.8	43.6	43.5	43.4	44.4	46.9	47.8	47.6	47.2	47.3	46.8	46.5	46.5	46.9	46.5	45.8	45.1	45.5	45.85	47.8	13.00	43.1	8.20	4.7	C	C
13	45.5	45.4	45.4	45.5	45.8	45.8	46.1	44.4	43.1	43.9	46.2	49.2	49.7	49.3	48.0	47.6	46.5	46.5	46.6	45.8	46.2	45.8	45.7	45.7	46.24	49.9	13.10	42.7	9.10	7.2	C	C
14	45.8	45.8	45.6	45.6	45.8	45.4	45.2	43.9	43.2	43.9	46.9	49.7	49.3	48.8	48.3	47.3	46.0	46.0	46.6	46.2	46.2	46.0	45.9	45.6	46.21	49.7	12.00	43.2	9.00	6.5	C	C
15	45.8	45.8	45.2	45.4	45.6	47.0	45.6	45.6	45.2	47.3	48.5	49.7	49.3	48.6	47.9	46.9	45.5	46.0	46.4	46.0	46.0	46.0	46.0	45.6	46.54	49.7	12.00	44.7	8.45	5.0	C	C
16	45.6	45.2	45.4	45.2	46.2	47.3	45.5	45.2	43.6	43.9	46.0	48.5	49.2	49.0	49.3	48.1	45.9	47.1	46.7	46.6	45.2	45.2	45.5	45.6	46.29	50.3	13.30	43.3	9.10	7.0	A	A
17	45.4	45.5	45.2	45.6	45.8	45.1	44.0	43.9	43.9	44.8	46.6	48.3	48.9	48.8	47.9'	47.0	46.3	45.8	46.0	45.9	46.2	45.9	45.4	45.8	46.00	49.0	13.50	43.5	8.20	5.5	C	C
18	45.8	45.8	45.5	45.9	45.6	45.4	44.4	43.3	43.5	44.8	46.4	47.9	48.6	48.6	47.8	46.6	46.0	46.2	45.8	45.8	45.8	45.9	45.9	45.8	45.96	48.8	13.40	43.0	8.10	5.8	C	C
19	45.4	45.2	45.2	45.5	44.9	44.7	43.9	43.0	43.0	43.9	45.9	47.5	48.5	48.5	47.1	46.4	45.4	45.9	46.6	45.4	45.8	45.9	45.9	45.8	45.64	48.5	13.14	42.9	8.25	5.6	C	C
20	45.8	45.8	45.8	45.9	45.4	45.4	43.9	42.5	41.8	43.0	45.2	46.9	47.7	47.7	46.9	45.8	45.2	45.8	46.3	46.3	46.0	46.0	46.0	45.5	45.52	47.9	13.20	41.8	9.00	6.1	C	C
21	45.7	45.6	46.0	45.9	45.9	45.3	44.0	41.9	41.5	42.9	45.5	47.6	48.2	48.3	47.4	46.1	45.5	45.9	46.4	45.7	46.1	46.0	46.0	46.0	45.64	48.7	13.40	41.2	8.08	7.5	C	C
22	46.0	46.0	45.7	45.9	45.9	45.3	43.3	41.4	41.1	41.8	44.1	47.0	48.2	48.7	48.0	47.0	45.9	45.5	45.9	45.9	46.0	46.0	46.0	45.7	45.51	48.9	14.10	40.4	9.06	8.5	C	C
23	45.5	45.3	45.2	45.0	45.6	45.6	44.0	41.9	41.2	42.6	45.3	47.4	48.6	48.4	47.9	46.4	45.7	45.6	46.0	45.3	45.9	46.0	45.7	45.9	45.50	48.9	13.40	41.2	9.00	7.7	C	C
24	45.9	45.5	45.6	45.6	45.9	45.6	44.2	41.5	40.4	42.6	44.1	46.8	48.6	48.9	48.9	47.2	46.1	45.9	46.4	46.3	46.1	46.0	46.0	45.6	45.65	49.1	14.40	40.3	8.58	8.8	C	C
25	45.6	45.5	45.9	45.9	45.9	46.1	45.0	42.3	41.1	41.5	44.5	47.4	48.7	48.6	48.6	47.8	46.7	46.0	46.1	46.1	45.9	45.9	45.9	45.9	45.80	48.7	13.00	41.0	9.20	7.7	C	C
26	46.0	45.9	45.9	56.0	46.1	46.0	44.5	42.6	40.7	40.2	42.5	45.5	48.0	48.7	48.6	47.2	46.0	45.6	45.5	45.9	45.9	45.9	45.9	45.9	45.46	48.9	14.30	40.0	9.50	8.9	C	C
27	45.9	45.6	45.6	45.7	46.0	46.3	44.5	42.1	41.2	41.1	44.0	46.4	48.3	48.2	47.8	47.0	45.3	45.3	45.7	45.9	45.6	46.0	45.9	46.0	45.49	48.4	13.30	41.1	9.05	7.3	C	C
28	45.7	45.1	45.4	46.1	46.1	46.6	46.5	41.5	43.5	41.1	46.5	48.0	48.1	48.4	47.6	46.8	46.0	46.2	46.5	46.2	46.2	46.1	46.0	46.0	46.17	48.4	14.00	43.4	9.20	5.0	C	C
29	45.6	45.4	45.7	45.4	45.6	45.4	44.1	42.4	41.3	42.2	43.2	46.8	48.0	48.1	47.3	46.5	45.6	45.7	46.1	46.1	46.1	46.0	46.0	45.6	45.42	48.1	14.00	41.3	9.00	6.8	C	C
30	45.3	45.3	45.3	45.2	45.0	45.5	44.6	43.3	41.6	42.7	45.2	46.8	48.4	48.2	47.6	46.4	45.0	45.1	45.9	45.6	45.9	46.0	45.5	45.7	45.46	48.1	13.00	41.6	9.00	6.8	C	C
31	46.0	45.3	45.5	45.3	45.9	46.1	44.6	43.3	42.6	43.0	45.9	48.3	49.3	49.4	48.6	46.7	45.3	45.3	45.6	45.7	46.0	45.7	45.5	45.6	45.85	49.4	14.00	42.6	9.00	6.8	C	C
Mean	45.82	45.76	45.63	45.79	45.86	45.98	45.00	43.53	42.72	43.42	45.23	47.48	48.44	48.53	47.82	46.93	46.07	46.09	46.37	46.05	45.85	45.83	45.80	45.79	45.91	48.96		42.19		6.77		

DECLINATION: 4°+ . ′ . W

APRIL, 1905.

Day \ Hour	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	Maximum	h m	Minimum	h m	Range	Remarks a. m.	Remarks p. m.
1	45.2	45.1	45.1	45.2	45.2	45.2	44.0	42.5	41.7	44.4	44.7	46.6	46.9	48.1	46.0	48.5	46.7	45.2	46.9	45.4	45.9	46.2	45.9	48.6	45.63	50.7	15.10	41.7	9.00	9.0	C	S'
2	45.2	46.3	45.2	45.4	45.4	46.1	46.6	46.0	45.9	45.8	47.4	49.3	50.7	50.7	49.3	47.9	46.6	44.0	43.9	45.9	45.8	45.9	45.8	46.2	46.57	50.7	13.14	43.9	19.00	6.8	A	A
3	45.9	46.2	46.6	46.6	46.9	46.9	46.2	45.9	41.5	45.2	47.3	50.3	51.3	51.3	50.7	48.2	46.6	46.4	46.6	45.6	45.1	45.9	46.6	46.4	47.08	**52.0**	13.30	44.5	9.00	7.5	A	C
4	45.8	45.8	45.9	45.9	45.9	45.8	44.4	43.1	43.8	44.0	45.5	47.2	49.2	49.2	48.6	47.2	46.8	46.6	46.5	45.4	46.5	46.5	46.8	45.8	46.17	49.3	13.20	42.4	8.10	6.9	C	A
5	45.5	45.8	46.2	45.5	45.7	46.5	44.4	43.8	43.1	44.4	46.6	49.2	50.0	50.2	49.2	48.2	47.2	47.2	46.5	45.1	46.5	46.3	45.4	45.1	46.40	50.4	13.30	42.7	8.20	7.7	C	C
6	45.1	45.1	45.1	45.1	45.8	46.5	46.2	43.9	43.6	45.8	49.2	50.4	50.6	49.9	48.7	47.4	45.8	45.8	46.5	46.5	45.8	46.3	46.3	46.3	46.57	50.6	13.00	42.5	9.15	8.1	C	C
7	46.2	45.2	45.0	45.2	45.7	45.3	45.0	43.7	42.4	43.8	45.8	47.7	47.9	48.3	47.5	46.7	46.1	46.1	46.4	46.4	45.7	45.7	45.7	45.7	45.90	48.3	14.00	42.4	9.00	5.9	C	C
8	45.3	45.3	45.2	45.2	45.2	45.2	43.9	42.2	41.2	43.5	43.8	45.5	48.0	49.0	48.7	47.7	46.4	45.2	45.4	45.4	46.2	46.4	45.7	45.7	45.47	49.0	14.00	41.2	9.00	7.8	C	C
9	45.2	45.2	45.1	45.1	45.6	45.6	44.4	42.9	42.9	44.2	47.0	48.3	49.3	49.0	48.3	47.6	46.3	45.6	45.6	46.1	45.6	45.6	45.6	45.6	45.90	49.4	13.30	42.9	8.9	6.5	C	C
10	45.2	45.1	44.9	45.1	45.6	46.3	44.9	43.6	42.2	43.3	46.1	48.3	49.7	49.7	48.9	47.0	45.6	45.6	46.3	46.1	45.6	45.2	45.6	45.6	45.90	50.4	13.30	42.2	9.00	8.2	C	C
11	45.1	44.9	44.9	44.9	44.9	44.9	43.6	41.5	40.7	42.5	46.2	49.0	51.0	51.4	49.7	47.6	45.6	45.2	45.6	46.1	45.2	45.6	45.7	45.6	45.72	51.4	14.00	40.7	9.00	10.7	C	C
12	45.1	45.1	45.0	45.0	45.0	44.7	43.7	42.2	41.4	42.2	44.8	47.0	48.2	48.1	46.9	46.2	45.5	45.1	45.5	45.4	45.2	45.5	45.5	45.0	45.14	48.5	13.20	40.9	8.40	7.6	C	C
13	44.8	44.7	44.8	44.3	44.7	43.5	42.8	43.5	43.5	43.6	45.5	47.5	48.9	49.6	49.8	46.3	45.5	45.5	45.9	45.8	45.8	45.5	45.2	45.0	45.50	49.6	14.00	42.8	7.00	6.8	C	C
14	45.0	44.8	44.8	44.8	45.0	44.7	43.5	42.4	42.4	44.3	46.3	47.5	47.7	47.5	47.5	46.7	45.5	44.3	45.5	45.5	45.5	46.0	44.5	44.8	45.27	47.7	13.00	42.1	8.30	5.6	C	C
15	43.8	43.6	42.7	42.7	44.0	43.9	43.6	43.4	42.7	43.9	45.9	48.7	43.5	48.5	47.5	46.8	45.9	44.0	45.4	45.3	45.5	45.9	45.0	44.7	45.12	50.0	12.50	42.3	15.45	7.7	C	C
16	44.7	44.7	44.7	44.7	44.7	44.0	44.4	43.4	42.0	42.7	44.7	46.5	47.3	47.4	47.1	46.5	46.1	45.7	45.8	45.8	45.0	44.7	44.7	45.4	45.12	47.4	14.15	42.0	9.00	5.4	C	C
17	45.0	44.8	44.6	44.6	44.6	44.5	43.0	41.5	41.9	43.9	46.0	47.3	48.0	47.6	46.7	46.0	45.3	45.3	45.4	45.4	45.6	45.7	45.6	45.4	45.15	48.0	13.00	41.2	8.20	6.8	C	C
18	44.9	44.8	44.8	44.8	44.9	44.8	43.5	42.6	41.8	43.1	45.7	47.3	48.3	48.0	47.3	47.3	45.3	45.0	45.3	45.2	44.9	44.9	45.0	45.0	45.19	48.3	13.00	41.8	9.00	6.5	C	C
19	44.9	44.8	44.6	44.6	44.6	44.3	42.6	40.9	40.3	42.2	44.6	47.3	48.7	48.0	47.2	46.0	45.3	45.3	45.4	45.4	45.3	44.9	45.3	45.3	44.91	48.7	13.00	40.3	9.00	8.4	C	C
20	45.2	45.2	45.2	45.7	45.2	45.0	44.3	43.4	43.4	43.7	45.0	46.2	47.7	47.9	47.7	46.8	46.4	46.1	45.7	45.7	45.7	45.7	45.7	45.2	45.57	48.0	13.50	43.1	8.20	4.9	C	C
21	45.2	45.0	45.0	45.2	45.2	44.6	42.8	41.5	41.3	43.1	45.0	46.7	48.7	40.6	48.7	47.7	46.4	45.7	46.2	45.7	45.8	45.0	44.7	45.0	45.45	50.6	14.00	40.9	8.30	9.7	C	C
22	45.2	45.7	45.3	45.3	45.4	45.0	43.8	43.1	43.4	44.7	46.8	48.3	48.7	47.7	48.3	47.6	46.4	45.7	45.7	45.8	45.8	46.0	46.0	46.1	45.91	49.0	13.30	43.0	8.30	6.0	C	C
23	45.1	45.1	45.1	45.1	45.1	44.4	44.8	42.5	42.5	44.4	45.1	47.1	47.4	47.4	47.1	46.3	45.4	45.5	45.1	45.2	44.8	45.1	45.1	45.1	45.24	47.8	13.30	42.2	8.30	5.6	C	C
24	45.1	44.8	44.6	44.7	44.7	44.3	43.1	41.7	41.7	44.3	46.2	47.3	48.5	48.4	47.4	46.5	45.4	44.7	45.1	45.1	44.8	45.1	45.0	45.1	45.15	48.5	13.00	41.4	8.30	7.1	C	C
25	44.7	44.6	44.5	44.3	44.3	43.4	42.1	41.5	41.9	44.3	45.3	46.4	46.4	46.4	46.0	45.7	45.0	44.6	45.0	45.0	45.0	45.0	45.0	45.0	44.64	46.4	[illegible]	41.5	8.00	4.9	C	C
26	44.5	44.3	43.6	43.4	43.8	43.0	41.6	40.2	41.2	43.6	46.4	47.9	49.8	49.9	48.4	45.0	45.4	44.6	45.7	45.5	45.0	44.7	45.0	45.1	44.90	50.7	13.30	**40.2**	8.00	10.5	C	C
27	45.0	44.5	44.3	44.5	44.3	43.1	43.0	41.7	41.9	43.6	45.7	46.6	47.2	47.0	46.0	45.0	44.6	46.6	46.9	47.0	47.0	47.0	46.9	46.2	45.23	47.2	13.00	41.6	8.05	5.6	C	C
28	45.6	45.4	46.0	46.0	46.1	45.6	44.3	44.1	43.4	45.6	47.2	49.1	49.9	50.1	49.1	47.9	46.9	46.3	46.5	46.7	46.7	46.7	46.7	46.3	46.59	50.1	14.00	43.1	8.30	7.0	C	C
29	46.3	46.0	45.7	46.3	46.8	45.9	44.5	44.1	42.9	45.4	45.6	48.3	49.1	49.5	49.1	48.3	47.5	47.1	47.1	46.9	46.9	46.9	46.8	46.3	46.64	49.7	13.30	41.6	8.15	8.1	C	C
30	45.6	45.6	45.5	45.5	46.6	46.6	45.3	45.5	45.2	45.8	46.7	47.2	48.5	48.7	48.2	47.5	46.6	46.2	46.3	46.7	45.9	46.4	46.6	46.3	46.46	48.9	13.10	44.3	7.50	4.6	C	C
Mean	45.18	45.11	45.00	45.02	45.23	45.00	44.01	42.94	42.56	44.01	45.94	47.72	48.77	48.84	48.06	47.00	46.00	45.54	45.86	45.80	45.67	45.71	45.65	45.63	45.68	49.24		42.11		7.13		

DECLINATION: 4°+ . ′ . W

Hour / Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	46.0	45.5	45.5	45.6	45.5	45.3	44.3	43.4	44.1	45.6	46.7	48.2	49.7	50.9	50.8	49.6	47.0
2	45.8	46.0	45.6	45.5	45.3	44.1	43.4	43.0	44.1	45.3	46.8	48.2	49.3	49.6	49.2	48.3	48.8
3	46.6	46.2	46.1	46.0	45.9	44.8	44.3	42.8	44.3	45.9	48.2	49.6	49.8	49.8	48.6	48.3	47.4
4	46.7	46.5	46.3	46.3	45.7	45.4	44.2	43.1	42.3	43.3	46.0	48.3	49.7	49.9	49.4	48.3	46.9
5	46.3	46.1	46.0	46.3	46.5	45.3	44.1	43.9	44.5	45.2	46.3	48.4	49.0	48.8	47.3	46.8	46.3
6	46.5	46.1	46.0	46.0	45.7	45.1	44.5	44.3	44.7	46.8	48.4	49.2	49.4	48.5	48.0	47.2	46.5
7	46.4	46.2	46.0	46.0	45.8	44.5	43.9	43.5	44.3	45.5	47.0	47.7	48.4	48.4	47.6	47.2	46.9
8	46.4	46.0	46.1	46.0	45.8	45.4	44.5	43.4	44.3	46.4	48.3	49.4	50.0	50.8	50.2	48.5	47.3
9	46.3	46.5	46.5	46.5	46.5	45.2	45.9	44.4	43.5	44.4	45.8	47.1	48.6	49.9	49.7	48.8	47.4
10	46.5	46.5	46.5	46.5	46.1	45.6	44.7	44.4	44.4	45.5	47.3	48.9	49.9	49.9	49.2	48.2	47.0
11	46.9	46.6	46.7	46.2	46.1	45.6	45.1	44.7	45.1	45.9	47.3	48.5	49.5	49.5	49.0	48.5	47.3
12	47.1	47.0	47.0	46.8	46.7	45.9	45.7	45.1	44.8	45.7	47.1	47.5	48.1	48.6	48.6	48.5	47.2
13	46.2	47.1	46.3	46.6	46.0	45.3	44.7	44.5	44.7	45.7	47.5	48.5	49.7	49.4	48.6	47.5	47.5
14	46.7	46.7	46.5	46.1	46.3	46.0	44.6	44.6	45.6	47.5	49.4	49.9	49.9	48.8	48.0	47.3	46.1
15	46.9	46.7	46.5	46.7	46.0	44.8	43.9	44.6	46.0	47.5	49.0	49.0	48.8	48.7	48.2	47.5	46.4
16	46.7	46.7	46.3	46.3	45.7	43.8	42.1	42.9	44.8	47.9	49.9	50.3	51.1	50.2	48.7	47.2	46.1
17	46.1	45.8	45.5	45.4	44.7	42.7	40.8	40.9	42.1	45.7	48.8	50.4	50.2	49.3	47.6	46.4	45.9
18	46.2	45.1	45.3	45.0	44.7	42.0	41.5	42.1	45.0	48.1	49.3	49.9	49.9	49.2	48.1	47.4	46.8
19	46.1	46.1	45.8	44.7	43.5	41.6	40.8	40.6	41.2	45.1	48.4	48.3	48.9	49.3	48.9	48.1	47.3
20	46.3	46.2	46.0	45.9	44.8	44.1	45.6	42.2	43.2	44.8	47.4	48.8	49.0	49.2	48.9	47.5	47.1
21	46.9	46.3	46.2	46.2	46.0	45.5	44.7	44.0	43.9	45.6	47.5	49.2	51.6	51.6	50.3	49.0	47.8
22	46.8	46.4	46.4	46.6	46.6	45.6	44.9	44.2	44.8	45.1	46.6	47.9	49.0	49.3	49.0	48.2	47.1
23	46.6	46.4	46.4	46.3	46.0	44.9	43.7	42.6	43.4	44.2	45.5	46.4	48.0	49.3	49.4	48.5	47.6
24	46.4	46.3	46.3	46.3	46.3	45.3	43.8	43.8	44.9	45.5	47.0	48.2	49.7	49.8	48.7	47.9	47.4
25	47.1	46.5	46.5	46.5	45.4	46.0	46.4	46.2	47.7	49.2	49.8	49.5	49.5	49.5	49.2	49.2	48.1
26	46.7	46.4	46.4	46.3	45.7	45.0	44.7	45.0	46.4	47.5	48.7	49.0	49.0	47.9	47.7	46.9	46.5
27	46.4	45.4	45.8	45.3	45.0	45.2	45.0	45.4	45.0	46.5	47.9	49.0	49.3	49.2	49.2	49.0	47.7
28	45.4	45.5	45.4	46.5	45.5	45.3	45.3	45.9	46.3	47.8	48.7	50.3	50.7	50.0	48.9	48.0	47.4
29	46.8	46.5	46.5	46.6	46.2	44.0	43.8	43.1	43.6	45.3	47.8	49.2	50.3	50.7	50.3	48.7	47.6
30	47.3	46.7	46.4	46.3	45.4	44.5	43.7	43.9	44.9	47.3	49.4	50.0	50.4	49.5	49.3	48.1	47.3
31	46.7	46.6	46.6	46.6	46.6	45.8	43.6	43.7	45.2	45.9	49.2	50.1	50.5	50.3	50.0	49.3	48.1
Mean	46.51	46.28	46.18	46.12	45.77	44.83	44.00	43.75	44.46	46.05	47.86	48.87	49.09	49.54	48.92	48.06	47.09

DECLINATION: 4°+ . ′ . W

1	47.3	47.0	46.7	46.7	46.4	44.5	44.0	45.4	45.4	47.3	48.8	49.3	49.7	49.6	49.0	47.9	47.3
2	47.2	46.8	46.7	46.7	45.7	44.2	43.5	43.3	43.3	45.5	47.5	48.4	49.8	49.4	49.7	48.2	47.8
3	46.8	46.8	46.7	46.4	45.5	44.1	44.0	44.4	45.7	47.0	49.3	50.4	50.8	49.8	49.4	48.7	48.2
4	47.4	46.8	46.8	46.7	45.9	44.1	43.3	44.1	45.2	45.5	47.0	48.0	48.0	48.0	47.1	46.5	45.5
5	46.1	45.8	45.6	45.4	44.9	44.1	43.7	43.9	44.7	46.1	46.8	49.5	48.8	47.9	46.9	46.4	46.0
6	46.1	46.9	46.5	46.1	45.4	45.1	45.1	45.6	47.1	47.2	47.9	47.9	48.1	48.0	47.3	47.1	46.2
7	45.3	44.1	45.3	45.3	45.1	43.1	43.1	43.4	44.2	44.3	46.6	47.5	48.1	48.8	48.8	48.4	47.1
8	45.6	45.6	45.4	45.4	45.4	44.2	43.8	43.5	43.7	45.4	46.9	48.1	48.3	48.3	48.4	48.1	46.9
9	45.3	44.3	43.2	44.1	43.8	42.7	42.6	42.7	43.7	43.9	45.3	46.8	48.3	49.4	49.5	48.1	46.9
10	44.5	45.3	44.9	44.7	43.8	43.2	42.8	42.7	42.7	43.9	45.3	46.9	48.3	49.6	48.8	47.6	46.4
11	46.6	46.1	46.1	46.8	44.7	43.9	43.9	44.1	44.2	46.9	48.1	49.5	49.5	49.5	49.8	48.4	47.1
12	47.0	47.0	45.4	45.3	44.5	43.7	43.1	44.1	45.1	47.1	48.8	49.2	49.5	49.4	47.9	47.6	46.5
13	46.5	46.0	46.0	45.6	45.0	44.1	43.3	44.0	45.2	46.3	47.4	47.8	47.8	48.0	47.4	46.8	46.7
14	46.0	45.9	45.6	45.3	44.8	43.4	43.0	43.1	44.6	45.5	46.4	47.1	47.2	46.8	46.5	46.3	45.5
15	45.6	45.5	45.5	45.2	44.1	42.5	42.1	42.6	44.1	44.9	46.8	47.8	48.4	48.1	47.6	46.5	45.5
16	45.9	46.0	45.6	45.3	44.4	43.3	42.7	43.4	46.7	48.0	49.4	49.7	49.1	48.3	47.4	46.7	46.4
17	46.4	46.0	45.6	45.5	45.0	43.0	41.9	42.5	44.1	45.7	48.2	49.7	49.8	48.7	47.8	46.7	45.7
18	45.6	45.3	45.3	45.3	44.0	44.1	42.6	42.2	43.3	45.3	47.6	48.7	49.4	48.1	48.1	46.6	46.7
19	46.0	46.0	45.5	45.6	45.3	44.8	44.1	44.0	42.9	44.1	46.7	47.9	48.7	49.3	48.3	47.4	46.0
20	46.0	45.9	45.6	45.6	45.2	43.3	43.4	41.0	42.7	44.8	46.7	47.2	47.2	47.9	47.9	47.5	46.5
21	45.6	45.3	45.3	45.3	45.5	41.6	41.0	42.5	42.5	42.9	43.8	45.3		49.5	50.1	49.5	48.9
22	45.0	44.6	44.6	44.2	44.1	42.6	42.3	43.3	46.4	47.9	49.0	48.7	48.7	48.3	48.3	48.2	48.0
23	45.8	45.4	45.0	44.2	43.4	41.8	40.6	41.0	42.0	47.1	47.7	48.8	49.2	50.7	50.7	49.7	49.2
24	45.6	44.4	46.4	44.4	45.1	42.6	43.2	43.7	43.7	45.2	46.7	49.6	49.7	50.0	49.6	48.2	47.0
25	46.4	45.9	45.9	46.4	46.2	45.2	43.7	42.4	42.4	43.2	44.3	46.7	48.6	49.4	49.7	49.2	47.7
26	45.9	45.9	45.9	46.2	45.2	43.3	42.4	42.4	42.5	44.3	46.7	47.7	47.8	48.2	48.2	48.1	47.3
27	45.6	45.6	45.4	45.4	44.7	43.5	45.2	45.9	44.9	46.6	47.8	48.6	48.6	48.8	48.8	47.5	46.7
28	45.8	45.4	45.2	45.2	44.3	43.5	42.4	41.4	41.5	43.9	45.8	47.0	47.8	47.9	47.5	47.0	46.6
29	45.4	45.2	45.2	45.1	44.8	43.6	42.5	42.4	42.6	44.0	45.1	46.4	47.7	48.6	48.6	47.4	46.6
30	45.8	45.1	45.4	45.4	44.8	43.8	43.2	43.9	45.3	47.4	48.5	49.9	50.6	49.6	49.2	48.5	47.6
Mean	46.02	45.73	45.59	45.47	44.87	43.62	42.99	43.24	44.13	45.08	47.43	48.30	48.77	48.81	48.37	47.63	46.81

MAY, 1905.

18	19	20	21	22	23	24	Mean	Maximum	h m	Minimum	h m	Range	Remarks a. m.	Remarks p. m.
46.8	46.8	46.8	46.8	46.8	46.8	46.3	46.70	50.9	11.00	43.0	8.10	7.9	A	C
46.6	46.8	46.8	46.7	46.8	46.7	46.7	46.40	49.6	14.00	43.0	8.00	6.6	C	C
46.7	46.6	46.8	46.8	46.8	46.6	46.6	46.74	50.0	14.10	42.8	8.00	7.2	C	C
46.5	46.7	46.5	46.8	46.8	46.7	46.5	46.45	49.9	14.00	42.0	9.10	7.9	C	C
46.3	46.8	46.9	46.9	46.9	46.7	46.4	46.41	49.0	13.00	43.1	8.20	5.9	C	C
46.4	46.9	46.9	46.8	46.9	46.5	46.4	46.65	49.5	12.50	44.3	8.00	5.2	C	C
46.6	47.0	46.9	46.9	46.9	46.8	46.5	46.37	48.4	13,14	43.2	7.30	5.2	C	C
47.0	47.0	46.9	46.9	46.8	46.6	46.5	46.94	50.8	14.00	43.2	8.10	7.6	C	C
47.1	47.0	47.0	47.0	46.7	46.7	46.5	46.71	50.1	14.20	43.3	9.20	6.8	C	C
46.5	46.9	46.7	46.7	46.7	47.0	46.7	46.85	49.9	13,14	44.4	8,9	5.5	C	C
46.6	45.9	46.6	46.7	47.1	47.1	47.0	46.90	49.7	13.40	44.7	8.00	5.0	C	C
46.4	46.8	46.8	47.1	47.1	46.8	47.2	46.90	48.6	14.15	44.8	9.00	3.8	C	C
46.0	47.1	45.9	46.6	47.2	46.6	45.9	46.71	49.8	13.30	44.1	7.30	5.4	C	C
46.1	46.7	47.1	46.8	47.1	47.1	47.1	47.00	49.9	12.13	44.6	7.8	5.3	C	C
46.0	46.1	46.3	46.4	46.7	46.7	46.9	46.76	49.0	11.12	43.9	7.00	5.1	C	C
46.1	46.1	46.1	46.1	46.1	46.1	46.0	46.65	51.1	13.00	42.2	7.10	8.9	C	C
46.1	46.5	46.8	47.0	46.8	46.8	46.4	46.03	50.4	12.00	40.6	7.10	9.8	C	C
46.5	45.8	46.8	46.8	46.8	46.5	46.5	46.35	49.9	12.13	40.6	7.07	9.3	C	C
45.9	47.2	46.9	46.6	46.6	46.8	46.4	45.92	49.3	14.00	**39.4**	7.45	9.9	A	C
45.9	46.5	46.5	46.3	46.5	46.6	46.6	46.29	49.3	13.30	42.2	8.00	7.1	C	C
47.1	47.3	47.4	46.3	46.9	47.1	46.9	47.14	**51.8**	13.30	43.5	8.20	8.3	C	C
46.7	46.8	46.7	46.4	46.8	46.8	46.8	46.73	49.3	14.00	44.0	7.50	5.3	C	C
47.1	47.0	47.5	46.7	47.0	46.6	46.4	46.40	49.7	14.50	42.6	8.00	7.1	C	C
47.0	47.0	47.0	47.0	47.1	47.2	46.2	46.75	50.1	13.30	43.7	6.25	6.4	C	C
47.6	47.3	47.1	47.1	46.8	47.1	46.9	47.63	49.8	11.00	46.0	6.00	3.8	C	C
46.5	46.5	46.5	46.7	46.7	46.5	46.5	46.73	49.0	12,13	44.5	6.40	4.5	C	C
47.1	47.6	47.1	47.1	47.6	46.7	45.6	46.90	50.2	13.10	44.5	7.20	5.7	C	C
46.9	47.2	47.2	46.6	47.0	46.9	46.9	47.15	50.7	13.00	43.6	6.13	7.1	C	C
46.9	46.3	46.5	47.4	47.6	47.0	47.4	46.93	50.7	14.00	43.1	8.00	7.6	C	C
47.0	46.9	47.8	47.8	47.8	47.4	47.3	47.18	50.7	12.30	43.7	7.00	7.0	C	C
47.5	47.3	47.3	47.5	47.1	47.5	46.7	47.33	50.5	13.00	43.2	7.20	7.3	C	C
46.69	46.82	46.84	46.82	46.93	46.81	46.60	46.73	49.92		43.29		6.63		

JUNE, 1905.

									h m		h m			
46.9	47.0	47.3	47.3	47.3	47.3	47.4	47.20	49.7	13.00	44.0	7.00	5.7	C	C
46.8	46.8	47.5	47.5	47.5	47.6	47.4	46.74	49.8	13.00	41.9	7.40	7.9	C	C
48.0	48.0	47.1	47.8	47.9	47.5	47.5	47.41	50.8	13.00	43.6	6.30	7.2	C	C
45.5	45.5	45.2	45.6	45.6	46.0	46.0	46.07	48.0	12.00	43.3	7.00	4.7	C	C
44.7	45.4	46.6	46.8	47.3	45.4	46.8	46.08	49.5	12.00	43.7	7.00	5.8	C	A
45.4	45.7	45.8	45.6	45.4	45.6	45.4	46.36	48.3	13.00	44.7	6.30	3.6	C	C
46.1	45.7	45.8	45.8	45.8	45.7	45.6	45.82	48.8	14.15	42.8	6.10	6.0	A	C
46.1	45.8	46.0	45.6	45.6	45.6	45.4	45.96	48.4	15.00	43.1	8.20	5.3	C	C
46.0	45.8	46.4	46.2	45.8	45.6	45.3	45.49	49.5	15.00	42.3	6.30	7.2	C	C
45.4	45.6	45.6	46.3	46.8	45.8	46.1	45.57	49.6	14.00	42.7	8.00	6.9	C	A
45.7	45.6	45.1	46.8	46.8	46.1	46.1	46.59	49.9	14.30	43.4	7.20	6.5	A	C
46.1	46.1	46.2	46.4	46.4	46.8	46.6	46.48	49.5	13.00	43.1	7.00	6.4	C	C
46.0	45.3	45.9	46.0	46.0	46.1	46.1	46.04	48.0	14.00	43.3	7.00	4.7	C	C
44.9	45.9	46.0	46.1	46.1	46.0	46.0	45.60	47.2	13.00	42.9	7.10	4.3	C	C
45.5	46.0	46.7	46.5	46.5	46.1	46.7	45.67	48.7	13.30	41.8	6.40	6.9	C	C
46.1	45.9	45.9	46.1	46.4	46.0	46.0	46.27	49.7	12.00	42.6	6.30	7.1	C	C
45.5	45.5	45.6	45.6	45.5	46.1	46.0	45.92	49.8	13.00	41.5	7.20	8.3	C	C
46.0	46.1	45.7	45.6	46.0	46.1	47.8	45.95	49.4	13.00	41.9	7.40	7.5	C	C
45.3	45.3	45.6	45.6	45.6	46.0	46.0	45.87	49.3	14.00	42.9	9.00	6.4	C	C
45.6	45.7	45.6	45.6	45.5	45.7	45.7	45.52	48.0	13.40	41.2	7.30	6.8	C	C
46.8	46.4	46.0	46.0	45.9	45.6	45.3							C	C
46.7	46.4	46.5	46.4	46.5	46.4	45.6	46.15	48.7	12.13	42.2	7.00	6.5	C	C
48.3	45.4	46.4	46.9	46.6	46.6	46.4	46.15	**51.1**	14.50	**39.8**	7.20	11.3	A	C
46.3	45.1	45.9	45.9	46.3	46.4	46.4	46.11	50.0	14.00	42.2	7.40	7.8	A	C
46.3	45.9	45.5	45.5	46.0	46.0	46.3	46.06	49.7	15.00	41.8	8.30	7.9	C	C
46.3	46.0	46.4	46.2	46.3	46.4	46.2	45.96	48.2	14.30	42.0	7.45	6.2	C	C
45.9	45.4	45.6	45.9	45.9	46.2	45.9	46.09	48.8	14.40	42.7	6.50	6.1	C	C
45.6	45.4	45.6	45.9	45.6	45.8	45.6	45.31	47.8	14.00	41.0	8.20	6.8	C	C
45.9	45.9	45.9	45.9	46.6	46.2	46.2	45.57	48.5	14.15	42.1	7.30	6.4	C	C
45.9	45.5	45.4	45.9	46.1	45.8	45.7	46.41	50.6	13.00	42.8	6.30	7.8	C	C
46.03	45.85	46.03	46.19	46.28	46.17	46.22	46.04	49.15		42.53		6.62		

DECLINATION: 4°+ . ′ . W

JULY, 1905.

Day \ Hour	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	Maximum	h m	Minimum	h m	Range	Remarks a. m.	Remarks p. m.
1	45.7	45.3	45.3	45.0	43.9	42.5	41.7	41.7	42.1	43.9	46.5	49.5	50.3	49.6	48.5	47.4	46.3	45.8	45.8	45.5	46.1	45.9	45.8	45.4	45.65	50.3	13.00	41.6	7.20	8.7	C	C
2	45.7	45.4	45.3	45.3	45.0	43.8	42.8	43.1	45.0	45.1	46.6	48.5	48.9	49.5	48.7	47.8	46.6	45.8	45.8	45.1	45.1	45.8	45.9	46.1	45.95	49.5	14.00	42.1	6.45	7.1	C	C
3	45.7	45.4	45.4	45.4	45.3	43.2	41.6	41.3	42.9	45.3	47.8	49.3	50.0	49.9	49.1	46.8	46.1	45.3	45.4	45.8	45.9	45.9	46.1	45.8	45.86	50.2	13.30	41.0	7.30	9.2	C	C
4	45.9	45.8	45.4	45.4	45.0	43.4	41.9	41.7	42.4	44.8	47.3	47.8	48.7	49.1	48.5	47.8	46.5	46.3	45.9	45.3	45.9	45.9	45.7	45.4	45.74	49.1	14.00	41.6	7.20	7.5	C	C
5	45.0	44.6	44.5	44.5	44.9	43.7	41.5	40.4	40.5	42.6	45.4	46.7	48.7	49.1	48.1	47.2	46.2	45.8	45.7	45.8	45.8	45.7	46.1	45.8	45.18	49.2	13.50	39.6	8.30	9.6	C	C
6	45.2	45.0	45.0	45.0	44.3	43.3	40.7	39.6	41.1	43.3	47.9	51.1	49.0	47.7	47.9	48.4	48.0	47.9	46.7	47.7	45.4	45.7	47.1	45.4	45.77	51.1	12.00	39.4	7.40	11.7	C	A
7	...	45.9	44.6	43.8	43.2	43.4	45.6	44.2	44.9	45.2	48.6	49.0	49.6	49.3	48.2	47.5	46.1	45.5	46.0	46.0	45.7	45.7	45.3	45.6		49.5	13.40	40.7	6.33	8.8	A	C
8	46.0	45.8	45.5	45.5	44.0	43.6	42.4	41.8	40.7	43.1	44.8	45.9	47.8	48.9	49.2	48.4	47.4	46.3	44.7	45.4	45.0	45.1	45.8	45.5	45.36	49.3	13.40	40.2	8.31	9.1	A	A
9	46.3	45.9	45.1	45.1	44.8	43.9	43.5	42.8	43.3	45.0	46.3	48.1	49.2	49.6	48.9	47.7	46.9	45.6	44.7	45.9	45.9	45.9	45.5	46.0	45.91	49.6	14.00	42.5	7.20	7.1	A	C
10	45.8	46.1	45.5	45.5	44.7	43.6	42.7	42.8	43.6	44.9	46.4	47.7	47.7	48.0	47.6	46.4	46.1	45.5	45.7	45.8	45.8	45.8	45.9	45.9	45.67	48.0	14.00	42.7	7.00	5.3	C	C
11	45.7	45.8	45.2	45.0	45.0	43.8	43.1	43.4	43.3	43.5	45.8	47.3	48.2	48.2	47.5	46.7	45.3	44.8	45.0	45.2	45.3	45.4	46.0	45.7	45.42	48.3	13.30	43.1	7.00	5.2	C	C
12	45.7	45.4	45.2	44.8	44.6	43.3	42.0	42.7	43.8	45.4	48.2	49.0	48.7	48.7	47.7	46.9	46.1	46.0	45.8	45.4	45.7	45.6	46.1	45.8	45.77	49.0	12.00	41.9	7.05	7.1	C	C
13	45.5	45.5	45.3	44.7	43.6	43.2	42.1	42.1	42.9	43.8	45.6	47.5	47.2	47.4	46.8	46.2	45.7	44.7	44.8	45.3	45.6	45.9	45.6	45.3	45.10	47.6	13.30	41.7	8.50	5.9	C	C
14	44.4	44.7	44.4	44.4	43.2	41.8	41.7	42.9	44.1	45.6	47.1	48.1	48.6	48.8	48.4	45.9	46.1	46.1	46.1	46.1	46.5	46.8	44.9	45.8	45.58	48.8	14.00	41.2	6.43	7.6	C	C
15	45.6	45.1	45.1	44.7	44.1	42.7	41.7	42.5	42.8	45.1	47.0	48.1	49.0	48.9	47.7	46.1	45.1	44.8	45.0	44.8	44.4	45.1	46.6	45.8	45.31	49.3	13.30	41.7	7.00	7.6	C	C
16	45.1	45.1	45.0	45.0	44.3	41.7	40.2	40.5	42.6	45.4	47.0	48.5	49.9	49.4	49.2	46.4	44.9	44.5	44.6	45.0	44.9	45.0	45.1	45.1	45.18	50.0	13.10	40.2	7.00	9.8	C	C
17	44.9	44.9	44.9	44.8	44.2	42.7	41.2	40.5	41.6	44.1	46.0	47.6	48.5	50.6	49.7	47.5	45.6	44.1	44.5	44.9	44.9	44.9	45.2	44.8	45.12	50.7	14.10	40.5	8.00	10.2	C	C
18	44.6	44.5	44.5	44.6	44.1	42.0	40.1	40.4	42.5	44.6	46.3	48.2	49.1	48.7	48.8	46.9	45.7	45.0	44.5	44.4	44.5	44.6	44.8	45.0	44.93	49.4	13.20	40.0	7.30	9.4	C	C
19	44.9	44.5	44.4	44.4	42.0	41.1	40.1	39.3	41.6	44.2	46.5	48.0	49.7	49.8	48.4	47.1	45.6	44.9	45.0	44.5	44.9	45.3	45.4	45.0	45.31	50.1	13.30	39.1	7.35	11.0	C	C
20	44.6	44.4	44.2	44.4	44.2	43.3	41.9	42.9	42.3	44.6	46.3	46.8	47.1	47.3	47.6	47.1	46.3	45.6	44.9	44.9	44.8	44.7	44.7	44.9	44.93	47.6	15.00	41.8	6.50	5.8	C	C
21	44.6	44.6	44.6	44.5	44.3	43.0	41.6	41.5	42.7	44.2	45.7	46.8	46.9	46.4	46.8	46.3	45.4	44.8	44.4	44.9	45.0	45.2	45.2	44.9	44.76	47.0	13.00	41.5	7.40	5.5	C	C
22	44.9	45.0	45.0	45.0	44.5	44.2	42.8	42.3	44.0	45.0	46.8	47.9	48.1	48.3	48.1	46.8	45.3	44.6	45.0	45.1	45.1	45.5	45.3	45.1	45.10	48.3	14.00	41.7	7.30	6.6	C	C
23	44.9	44.6	44.9	44.5	44.3	43.1	42.2	41.6	41.9	43.2	45.0	45.8	45.8	47.0	48.1	48.1	47.3	45.8	44.8	44.8	45.4	45.5	44.9	44.6	44.92	48.4	16.28	41.6	8.00	6.8	C	C
24	44.3	44.0	44.2	44.6	42.7	40.4	42.0	43.0	43.1	43.3	45.4	46.4	45.0	47.2	48.4	48.4	47.2	45.0	44.7	45.8	45.8	45.7	45.3	46.0	44.91	48.5	15.30	40.2	6.04	8.3	A	A
25	45.8	45.5	45.1	45.4	44.6	43.0	41.6	43.2	45.7	47.7	48.4	48.7	49.1	48.4	47.7	46.8	46.0	45.7	45.1	45.3	45.5	45.5	45.1	45.1	45.85	49.2	12.50	41.3	6.30	7.9	C	C
26	45.1	45.1	44.7	44.6	44.3	43.0	42.7	42.7	43.6	45.6	46.1	47.2	47.7	47.4	47.2	46.5	45.7	45.1	45.5	45.5	45.5	45.5	45.5	45.3	45.27	47.9	13.10	42.4	7.10	5.5	C	C
27	45.0	44.7	44.6	44.7	44.3	43.0	42.0	42.0	42.4	44.0	45.8	47.2	48.0	48.3	47.7	46.2	45.7	45.3	45.5	44.9	45.5	45.5	45.1	45.0	45.12	48.3	14.00	41.5	7.20	6.8	C	C
28	54.7	44.5	44.5	44.6	44.3	43.2	42.6	42.7	43.5	47.5	48.1	48.9	49.8	48.8	48.4	47.0	45.8	45.5	45.7	45.7	45.7	44.6	45.3	45.4	45.06	49.9	13.30	42.1	7.20	7.8	C	C
29	45.2	45.8	45.2	45.2	44.3	41.8	40.9	41.2	42.6	44.4	47.0	48.4	48.8	48.6	47.1	46.1	45.5	45.1	45.1	45.2	45.6	45.8	45.8	45.8	45.27	48.9	13.30	40.6	7.30	8.3	C	C
30	45.8	45.6	45.6	45.5	44.8	42.9	42.5	43.2	44.4	45.9	47.1	48.0	47.7	47.5	47.1	45.9	45.0	44.1	45.1	45.1	45.1	45.6	45.6	45.8	45.18	48.0	12.00	42.2	6.30	5.8	C	C
31	45.4	45.1	45.2	45.1	44.1	42.4	40.9	40.6	44.0	44.4	46.6	47.0	48.5	48.6	47.5	46.2	45.0	44.6	45.2	45.1	45.1	45.4	45.1	45.4	45.12	48.6	14.00	40.5	7.10	8.1	C	C
Mean	45.27	45.12	44.96	44.91	44.26	42.89	41.82	42.21	42.90	44.63	46.56	47.88	48.39	48.52	48.08	47.00	46.01	45.37	45.22	45.41	45.38	45.46	45.57	45.43	45.39	49.00		41.26		7.74		

DECLINATION: 4°+ . ′ . W

AUGUST, 1905.

Day \ Hour	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	Maximum	h m	Minimum	h m	Range	Remarks a. m.	Remarks p. m.
1	45.1	45.1	45.1	45.1	44.3	42.4	40.7	40.7	41.8	44.3	46.5	48.4	48.8	48.5	47.0	45.8	45.0	44.8	44.8	45.0	45.1	45.1	45.1	44.7	44.97	48.8	13.00	40.3	7.20	8.5	C	C
2	44.8	44.4	44.3	44.0	43.1	41.7	40.6	41.6	42.9	44.4	45.8	49.9	51.6	51.2	49.6	50.5	50.3	49.9	45.4	46.5	40.9	46.1	45.8	45.8	45.88	51.9	13.40	40.3	6.40	11.6	C	S
3	47.1	46.3	45.6	44.6	44.8	44.1	43.5	44.6	47.3	48.6	50.0	51.1	51.1	49.6	48.4	46.6	45.9	45.0	41.7	45.6	45.9	45.8	46.3	46.7	46.51	51.2	12.10	40.6	20.50	10.6	A	A
4	45.8	45.8	45.7	45.2	44.3	42.9	41.4	41.7	44.4	46.5	48.9	51.2	50.5	49.9	48.6	48.1	45.2	45.0	45.1	45.0	45.8	45.9	46.2	46.2	46.10	51.4	12.15	41.4	7.00	10.0	A	C
5	45.8	45.7	45.7	45.5	44.7	43.2	42.0	41.7	42.7	45.0	47.2	49.1	48.6	47.5	47.4	46.4	46.3	44.6	44.6	45.5	45.4	45.7	45.7	46.0	45.50	49.6	13.00	41.5	7.50	8.1	C	C
6	46.4	45.7	45.7	45.7	45.1	43.1	41.9	41.1	41.1	45.0	47.7	49.6	50.2	49.9	48.5	46.6	45.5	44.5	44.9	45.0	45.0	45.4	45.5	45.5	45.61	50.2	13.00	40.9	8.20	9.3	C	C
7	45.5	45.0	45.5	45.0	45.0	43.1	41.7	41.5	43.6	46.9	48.5	49.8	51.3	51.5	51.0	47.4	47.0	46.2	45.7	44.5	45.7	46.0	46.1	45.8	46.22	51.7	14.20	40.9	7.40	10.8	C	A
8	45.8	45.7	45.7	45.4	44.3	41.7	41.5	40.4	42.6	45.5	47.9	49.9	50.4	49.8	48.5	47.0	46.0	45.1	45.0	45.3	45.8	45.8	45.8	45.8	45.70	50.4	13.00	40.1	7.50	10.3	C	C
9	45.8	45.7	45.8	45.5	44.5	43.1	42.6	43.0	45.7	48.1	48.8	49.5	48.8	48.3	46.9	46.0	45.5	45.0	45.5	45.5	45.7	45.7	45.8	45.8	45.94	49.6	12.40	42.6	7.00	7.0	C	C
10	45.4	45.3	45.0	44.5	43.8	41.7	40.2	41.5	43.2	46.4	48.3	48.4	48.1	47.4	46.9	45.7	44.9	44.7	45.3	45.5	45.7	45.7	45.7	45.5	45.20	48.4	12.00	40.2	7.00	8.2	C	C
11	45.4	45.0	44.9	44.9	44.2	42.0	40.7	41.7	43.9	46.4	47.6	48.3	49.5	49.0	47.1	45.4	44.5	44.9	45.6	45.4	45.4	45.6	45.6	45.6	45.26	49.7	13.30	40.7	7.00	9.0	C	C
12	45.4	45.6	44.4	44.5	43.7	41.6	40.1	41.0	42.9	46.9	46.7	48.4	48.8	48.4	46.9	45.6	44.9	44.8	45.4	45.4	45.3	45.6	45.4	45.2	45.12	49.0	13.20	40.1	7.00	8.9	C	C
13	44.9	45.2	44.9	44.4	43.7	41.5	40.1	40.3	41.6	44.1	45.6	47.6	48.4	48.4	48.3	47.1	45.9	45.6	45.7	45.7	45.6	45.6	44.9	44.5	44.98	49.4	13.20	40.1	7.00	9.3	C	C
14	44.4	44.2	44.5	44.1	43.5	41.5	40.1	40.4	42.6	44.2	46.3	47.3	48.7	49.4	48.4	47.8	45.7	45.0	45.7	45.3	45.7	45.7	45.9	45.7	45.09	49.7	14.30	40.1	7.00	9.6	C	C
15	45.6	45.4	44.9	44.8	44.2	42.9	41.5	42.7	45.1	48.4	49.7	50.1	50.2	48.6	45.1	46.7	45.9	45.6	55.6	45.6	45.1	45.4	45.4	45.1	45.85	50.2	13.00	41.5	7.00	8.7	C	C
16	45.4	45.3	44.9	45.0	44.4	42.9	41.4	41.6	42.9	45.0	46.9	48.6	49.9	49.5	48.3	47.2	46.3	45.7	45.6	45.4	46.0	45.7	45.4	45.6	45.62	49.9	13.00	41.2	7.20	8.7	C	C
17	45.4	45.0	44.9	44.8	44.4	42.5	41.2	41.4	43.5	47.8	48.4	49.7	49.7	48.3	46.5	45.6	44.9	45.0	45.2	45.6	45.6	45.4	45.6	45.6	45.50	49.8	12.50	40.7	7.30	9.1	C	C
18	45.6	45.6	45.3	44.8	44.2	42.7	41.4	41.4	42.7	45.4	48.2	49.5	49.0	48.2	47.3	46.0	45.2	44.9	45.3	45.3	45.6	45.3	45.3	45.4	45.40	49.7	12.30	41.4	7.8	8.3	C	C
19	45.0	44.8	44.8	44.6	44.1	42.5	41.6	42.0	44.5	47.1	49.0	49.3	49.7	49.1	47.8	46.8	45.2	45.4	45.4	45.4	45.6	45.7	45.0	45.3	45.65	49.8	13.40	41.5	7.20	8.3	C	C
20	45.1	45.0	45.0	44.9	41.2	43.0	42.0	42.3	43.1	45.3	47.2	50.2	50.4	50.0	49.1	47.0	45.4	45.4	45.8	46.1	45.8	45.7	45.7	45.5	45.80	50.8	12.30	41.7	7.05	9.1	C	C
21	45.3	45.0	45.0	44.6	44.5	42.7	42.8	43.0	44.0	45.7	47.2	48.4	49.4	48.5	47.6	46.5	45.5	45.0	45.5	45.7	45.5	45.1	45.6	45.7	45.57	49.6	13.10	42.7	6.00	6.9	C	C
22	45.3	45.3	45.0	45.0	44.6	43.1	41.7	41.7	43.2	45.7	47.3	48.5	48.9	48.7	47.9	45.8	45.5	45.3	45.5	45.4	45.3	45.8	45.7	45.5	45.49	49.2	13.30	41.5	7.35	7.7	C	C
23	45.4	44.7	44.3	44.3	44.2	43.0	42.7	43.1	44.3	47.0	48.4	49.6	49.8	49.1	47.7	45.8	44.6	44.6	45.0	44.5	45.1	45.0	45.4	45.4	45.54	49.8	13.00	42.5	7.00	7.3	C	C
24	44.6	44.5	44.5	44.7	44.3	42.8	41.7	42.8	45.0	47.2	48.9	49.4	49.2	48.3	46.9	45.4	44.6	45.5	45.5	45.5	45.5	45.7	45.7	45.7	45.58	49.5	12.30	41.7	7.00	7.8	C	C
25	45.7	45.0	45.0	44.6	44.0	42.0	41.7	42.8	44.6	46.9	48.4	49.2	49.5	48.5	47.2	46.2	45.1	45.3	45.5	45.8	44.3	45.7	45.8	47.2	45.67	49.8	12.40	41.6	6.40	8.2	C	C
26	45.7	45.1	45.0	44.9	44.2	42.4	41.7	42.3	44.7	47.2	48.5	49.9	49.8	48.4	47.8	45.5	44.3	44.9	45.7	45.5	45.0	45.7	45.7	45.7	45.85	50.0	12.30	41.6	7.20	8.4	C	C
27	45.0	44.9	44.7	44.7	44.2	42.4	42.3	43.4	45.1	46.9	48.0	49.8	49.8	48.8	46.8	45.5	44.6	45.1	45.7	45.8	45.4	45.7	45.4	45.3	45.64	50.0	12.30	41.9	6.40	8.1	C	C
28	45.5	45.1	45.0	44.7	44.3	42.7	41.8	42.2	43.5	45.5	47.1	48.0	48.4	47.1	45.5	44.7	44.4	44.6	45.6	45.6	46.2	45.9	46.1	45.6	45.21	48.4	13.00	41.8	7.00	6.6	C	C
29	45.6	44.8	44.4	45.1	44.7	43.2	43.6	42.8	45.2	47.8	48.1	48.8	48.2	48.0	46.6	47.0	44.7	45.9	45.9	45.9	46.1	45.9	45.5	46.2	45.75	48.8	12.00	42.2	6.15	6.6	C	C
30	45.4	45.1	45.8	45.2	43.7	42.2	42.8	44.4	44.6	47.5	49.3	50.1	51.6	51.2	49.5	46.3	44.8	43.9	45.9	42.8	45.2	46.3	46.6	46.3	46.10	52.0	13.30	41.7	6.20	10.3	A	A
31	47.0	45.6	45.6	45.1	44.4	43.1	43.1	44.3	46.2	48.0	49.9	50.0	50.0	48.9	47.1	45.9	45.4	45.6	45.0	45.0	45.5	45.6	45.6	45.6	46.06	50.7	12.35	43.1	6.07	7.6	C	A
Mean	45.49	45.19	45.06	44.85	44.25	42.57	41.68	42.11	43.83	46.35	47.95	49.28	49.65	48.97	47.68	46.45	45.45	45.25	45.29	45.34	45.31	45.65	45.59	45.67	45.62	49.97		41.29		8.67		

DECLINATION: 4°+ . ′ . W — SEPTEMBER, 1905.

Day \ Hour	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	Maximum	h m	Minimum	h m	Range	Remarks a. m.	Remarks p. m.
1	46.7	45.5	45.0	45.1	45.2	43.2	42.1	43.3	45.8	49.9	51.1	51.2	50.7	48.6	46.6	45.2	44.3	44.6	45.0	45.2	45.8	45.4	45.8	45.8	46.13	52.7	13.15	41.8	6.50	10.9	C	C
2	45.8	45.6	45.6	45.2	44.7	43.1	42.1	42.9	45.5	47.4	49.7	50.7	50.7	49.9	47.7	46.1	45.0	45.0	45.4	45.4	45.6	45.6	44.5	45.6	46.05	**53.4**	12.34	42.2	7.10	11.2	C	C
3	45.2	45.2	45.3	45.5	44.8	43.2	42.0	42.7	42.6	45.9	48.4	49.3	49.0	47.7	47.0	45.6	43.1	44.6	43.6	46.0	47.1	47.3	47.1	42.9	45.50	49.3	12.00	42.0	7.00	7.3	C	S°
4	45.5	46.7	45.1	45.2	45.0	44.3	44.3	42.5	45.1	47.3	49.6	50.1	50.0	48.6	48.1	47.1	45.9	45.9	45.9	46.1	46.2	45.9	46.2	45.9	46.35	50.1	12.00	41.4	6.44, 7.36	8.7	A	C
5	45.9	45.2	45.9	45.7	44.5	44.4	43.0	42.6	44.4	47.9	49.8	50.8	50.9	49.8	48.7	46.2	46.7	46.0	44.7	46.4	46.0	46.3	45.9	41.7	46.35	50.9	13.00	42.6	8.00	8.3	A	C
6	46.0	45.2	45.7	45.2	44.7	42.8	41.8	41.9	43.0	46.3	48.6	49.1	49.4	48.7	47.6	46.6	45.7	45.3	45.9	45.9	45.6	46.0	46.0	45.9	45.79	49.7	12.50	41.8	7.00	7.9	C	C
7	45.7	45.6	45.3	45.3	44.8	43.7	42.3	41.8	42.3	45.2	47.5	48.9	48.7	48.1	46.4	45.7	45.3	45.5	45.7	45.7	45.7	45.9	45.9	45.6	45.52	48.9	12.00	41.8	8.00	7.1	C	A
8	45.3	45.1	45.1	44.7	44.0	43.2	42.6	43.4	44.2	46.7	48.6	49.3	49.0	47.8	46.4	45.5	45.6	46.0	45.5	45.9	45.9	46.0	45.5	45.7	45.72	49.4	12.30	42.5	6.50	6.9	C	C
9	45.2	45.2	44.9	44.8	44.2	42.8	42.2	43.2	44.8	47.2	49.4	50.6	49.3	48.9	47.9	47.2	46.0	46.0	45.7	45.6	45.9	45.7	45.7	45.5	46.00	50.6	12.00	41.9	7.10	8.7	C	C
10	44.8	45.1	44.9	44.5	44.5	43.3	42.9	43.0	43.7	47.2	48.6	48.7	47.9	46.6	45.1	44.7	45.3	46.0	45.9	45.9	45.9	46.0	45.1	46.0	45.48	48.9	11.54	41.8	7.20	7.1	C	C
11	45.6	45.6	44.8	44.8	44.2	43.0	42.5	43.2	44.7	46.6	48.3	49.3	48.9	47.8	47.2	45.9	44.7	45.6	46.0	46.2	46.2	45.7	45.5	45.9	45.76	49.3	12.00	42.5	7.00	6.8	C	C
12	45.9	45.6	45.2	45.2	44.7	42.5	42.5	43.0	46.0	48.6	50.5	50.6	50.0	47.6	45.7	44.5	44.5	45.3	46.0	45.9	45.9	45.9	45.7	45.7	45.96	50.9	11.30	42.5	6.7	8.4	C	C
13	45.7	45.6	45.3	45.3	44.5	43.2	41.9	42.1	44.2	48.2	50.4	51.0	50.0	47.9	46.0	44.8	44.7	45.5	45.7	45.7	45.9	45.9	45.9	45.7	45.88	51.0	12.00	41.8	7.40	9.2	C	C
14	45.3	45.2	45.2	44.9	44.6	43.3	43.1	43.8	46.4	49.1	51.1	50.6	49.7	47.9	46.1	45.3	45.3	45.8	46.0	46.0	46.0	45.8	45.7	45.6	46.16	51.1	11.00	42.9	6.34	8.2	C	C
15	45.3	45.2	45.2	44.8	44.6	43.3	42.4	42.6	44.3	47.1	49.7	50.2	48.8	47.7	46.1	45.3	46.2	46.0	46.1	46.0	45.8	45.8	45.7	45.4	45.86	50.2	12.00	42.4	7.00	7.8	C	C
16	45.0	45.2	44.8	44.6	44.6	42.9	41.4	42.0	44.6	47.5	49.8	50.3	49.4	48.0	46.1	45.0	44.6	45.4	45.8	45.8	46.0	46.0	45.8	45.8	45.68	50.3	12.00	**41.2**	6.50	9.1	C	C
17	45.4	45.3	45.3	45.2	44.8	43.3	41.9	41.6	44.1	46.9	49.0	50.2	49.9	48.2	46.5	44.8	44.6	45.3	45.7	45.7	45.8	45.8	45.6	45.7	45.69	50.2	12.00	41.4	7.50	8.8	C	C
18	45.4	45.4	45.3	45.3	44.9	43.3	42.3	43.3	45.4	48.2	50.5	50.3	50.2	48.7	46.9	41.6	44.6	46.1	47.5	46.1	46.7	45.5	46.1	45.2	46.16	50.5	11.00	42.3	7.00	8.2	C	A
19	44.8	45.4	44.3	44.6	44.4	43.0	42.4	44.1	46.1	50.3	51.1	50.9	50.9	50.6	49.1	48.6	47.9	48.8	48.2	46.7	45.2	47.1	46.4	46.4	46.97	51.1	11.00	41.5	6.30	9.6	A	C
20	45.2	45.3	44.8	45.8	46.0	44.6	43.9	44.5	47.1	50.2	51.6	51.4	50.3	48.4	46.0	45.2	45.3	45.7	46.0	46.0	46.4	46.4	46.4	46.4	46.62	51.6	11.00	43.8	6.40	7.8	C	C
21	46.1	46.0	46.0	45.4	44.9	44.5	43.7	44.6	45.7	47.3	48.6	49.4	49.5	48.0	46.5	45.3	45.3	46.0	46.1	46.5	46.5	46.4	46.3	46.1	46.28	49.5	13.00	43.3	6.30	6.2	C	C
22	46.1	45.9	45.9	45.3	45.4	45.4	44.4	44.2	46.2	48.7	49.5	49.6	48.8	47.3	46.5	45.4	45.5	46.1	46.1	45.7	46.4	45.9	46.1	45.1	46.27	49.6	12.00	44.0	7.20	5.6	C	C
23	45.3	44.0	44.7	44.7	44.6	44.0	43.4	43.4	44.7	47.4	49.3	49.8	48.9	45.8	46.5	45.7	45.7	46.1	46.1	46.1	46.2	46.1	46.1	45.7	45.85	49.8	12.00	42.8	7.20	7.0	C	C
24	45.7	45.5	45.3	45.4	45.3	45.3	44.1	43.5	43.8	45.5	46.9	47.2	47.3	46.9	46.8	46.4	46.5	46.8	45.9	46.1	46.1	46.1	46.1	45.7	45.84	47.3	13.00	43.4	8.10	3.9	C	C
25	45.3	45.1	45.1	45.1	45.3	45.0	44.6	44.0	44.0	45.5	47.4	48.3	48.5	47.4	46.2	45.5	46.1	46.5	46.4	46.2	46.2	46.4	46.1	45.5	45.90	48.5	13.00	43.8	8.30	4.7	C	C
26	45.7	45.4	44.7	46.1	45.7	46.6	45.8	44.7	45.5	46.8	48.7	48.9	48.7	47.4	46.8	47.4	47.6	48.8	47.7	46.1	45.9	46.1	45.8	45.5	46.60	48.9	12.00	44.7	3.08	4.2	C	C
27	45.4	45.8	46.6	45.9	45.7	45.3	45.8	48.5	46.1	47.7	49.3	50.2	50.2	48.7	47.4	47.7	45.3	48.0	44.9	47.6	46.9	45.5	46.6	46.4	46.98	50.7	12.40	45.1	5.30	5.6	C	A
28	46.6	46.2	46.6	46.5	46.9	46.6	45.9	45.3	45.5	47.3	49.9	50.2	48.9	47.3	46.1	45.3	45.7	46.1	45.9	46.1	46.2	46.1	46.1	45.5	46.62	50.4	11.40	44.9	8.30	5.5	C	C
29	45.9	46.1	46.6	46.4	45.7	45.5	46.1	45.4	46.1	46.9	47.6	48.3	48.1	46.4	45.9	45.5	45.7	46.2	46.1	46.1	45.9	45.8	46.2	46.2	46.28	48.3	12.00	45.1	7.00	3.2	A	C
30	46.3	46.5	46.3	45.9	45.5	44.8	43.7	43.2	43.9	46.0	48.6	49.7	49.7	48.6	46.7	45.5	45.5	46.5	46.3	46.2	46.3	46.3	46.5	46.3	46.28	50.1	12.30	43.2	8.00	6.9	C	C
Mean	45.60	45.49	45.36	45.28	44.96	43.98	43.25	43.44	44.89	47.43	49.30	49.84	49.41	48.04	46.75	45.82	45.47	46.05	45.93	46.03	46.07	46.02	45.96	45.65	46.08	50.11		42.75		7.36		

DECLINATION: 4°+ . ′ . W — OCTOBER, 1905.

Day \ Hour	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	Maximum	h m	Minimum	h m	Range	Remarks a. m.	Remarks p. m.
1	45.6	45.0	46.2	44.8	46.9	45.9	44.1	43.6	44.8	47.9	50.3	49.3	49.3	47.9	46.2	45.1	45.6	46.0	45.9	46.8	46.3	46.3	46.2	46.2	46.34	50.4	11.30	43.6	7.00, 8.00	6.8	C	C
2	46.2	45.9	45.9	46.6	45.8	46.2	45.1	44.0	45.1	48.2	49.7	50.3	49.6	48.6	47.0	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.2	46.67	50.3	12.00	44.0	8.00	6.3	C	C
3	46.2	46.0	46.0	45.9	45.6	45.6	44.5	42.9	42.6	44.8	47.7	49.2	49.6	48.4	47.0	45.9	45.9	46.2	46.2	46.2	46.0	46.2	46.2	46.2	46.12	49.6	13.00	42.5	8.45	7.1	C	C
4	45.9	45.6	45.9	45.8	45.6	45.5	44.7	43.9	43.7	45.5	48.2	49.6	50.3	49.4	47.5	46.3	46.0	46.0	46.0	46.3	46.3	46.2	46.0	46.0	46.34	50.3	13.00	43.5	8.30	6.8	C	C
5	45.8	45.6	45.5	45.0	45.0	45.4	45.5	44.1	44.8	47.0	48.8	49.0	49.0	48.4	46.9	46.2	45.8	46.9	47.0	46.3	46.3	46.2	46.2	46.0	46.36	49.0	12.13	44.0	8.05	5.0	C	C
6	45.9	45.4	45.5	45.2	45.2	45.0	44.3	43.5	44.4	46.2	48.5	50.1	50.1	49.3	48.8	47.5	47.9	47.8	48.5	49.6	48.2	47.1	46.3	46.7	46.96	50.4	12.25, 20.20	43.3	8.30	7.1	C	C
7	46.5	46.3	46.2	46.2	46.0	45.2	43.9	43.9	45.0	47.3	48.8	49.6	48.9	48.2	47.5	46.5	46.3	47.4	47.5	46.7	46.9	46.3	46.3	46.2	46.65	49.6	12.00	43.9	7.8	5.7	C	C
8	45.5	45.4	45.6	45.8	46.2	46.9	45.2	43.9	43.7	46.0	48.2	48.8	48.6	47.9	47.0	46.0	45.9	46.2	46.3	46.3	46.6	46.6	46.0	46.0	46.27	48.8	12.00	43.5	8.30	5.3	C	C
9	46.3	46.3	45.6	45.7	46.1	46.3	44.4	44.4	44.6	46.1	45.7	49.4	48.9	48.2	46.8	46.1	46.3	46.3	46.3	46.3	46.3	46.4	46.4	46.4	46.32	49.4	12.00	44.4	7.8	5.0	C	C
10	46.3	46.3	46.1	45.9	45.6	45.2	44.1	43.7	44.6	47.6	49.7	49.4	48.3	47.0	46.3	45.9	46.3	46.7	46.3	46.3	46.4	46.8	46.3	46.3	46.39	49.7	11.00	43.7	8.00	6.0	C	C
11	46.1	46.0	45.9	45.7	45.6	45.1	44.2	44.0	44.4	46.1	47.9	48.5	48.3	47.6	46.6	45.7	46.1	46.1	46.3	45.3	46.0	46.3	46.3	46.1	46.09	48.5	12.00	43.6	8.10	4.9	C	C
12	45.5	45.5	45.5	45.7	45.5	45.8	44.4	44.2	44.4	45.6	47.5	49.0	49.5	49.0	47.1	47.1	46.6	46.3	46.4	46.3	46.3	46.1	45.9	45.7	46.28	48.5	13.00	44.2	8.00	5.3	C	C
13	45.6	45.6	45.2	45.2	44.9	45.6	44.5	43.6	43.8	45.2	47.1	48.9	49.1	48.3	47.0	46.1	46.1	46.1	46.1	46.3	46.3	46.3	45.9	45.7	46.02	49.4	12.40	43.6	8.00	5.8	C	C
14	45.5	46.1	46.3	46.3	46.1	46.3	46.4	44.9	44.0	44.9	47.5	49.0	50.2	49.1	47.0	46.3	46.1	46.3	46.7	46.0	46.6	46.4	46.4	45.9	46.51	50.2	13.00	44.0	9.00	6.2	C	C
15	46.3	46.1	45.9	45.9	46.0	45.9	44.6	43.6	43.4	44.8	46.8	48.5	49.0	48.5	47.5	46.6	46.0	46.3	46.3	46.3	46.3	46.3	46.3	46.0	46.22	49.0	13.00	43.4	9.00	5.6	C	C
16	46.1	46.0	45.9	45.9	45.7	45.7	44.8	44.2	44.0	44.1	45.7	49.0	50.2	49.7	48.3	46.6	45.9	46.4	46.4	46.3	46.3	46.3	46.3	46.3	46.34	50.2	13.00	43.8	9.10	6.4	C	C
17	46.1	45.8	46.1	46.1	46.0	46.1	44.6	43.3	42.3	43.5	46.1	48.7	50.1	49.4	47.6	46.5	46.0	46.2	46.4	46.4	46.5	46.1	46.2	46.1	46.17	50.1	13.00	42.2	8.30	7.9	C	C
18	46.1	46.2	46.7	45.3	46.4	47.1	45.0	44.7	44.9	45.7	47.6	49.2	50.3	49.2	48.3	47.6	46.4	45.8	46.4	46.8	46.9	46.4	46.7	46.5	46.76	50.3	13.00	44.5	7.40	5.8	C	A
19	46.4	46.2	46.1	46.1	45.8	45.6	44.7	43.8	43.7	44.3	46.4	48.3	49.5	48.8	47.7	46.5	46.4	46.4	46.4	46.4	46.5	46.7	46.4	46.4	46.31	49.5	13.00	43.7	9.00	5.8	C	C
20	46.4	46.4	46.1	46.0	45.8	46.1	45.0	44.5	44.1	44.5	46.1	47.9	48.8	48.7	47.7	46.8	46.4	45.0	46.1	46.7	46.5	46.4	46.4	46.2	46.27	49.0	13.30	44.1	9.00	4.9	C	C
21	45.7	45.7	45.4	45.6	45.7	45.8	44.7	43.8	44.2	44.3	46.0	47.7	48.6	48.3	48.3	46.7	46.4	46.4	46.4	46.4	46.4	46.5	46.4	46.4	46.16	48.6	13.00	43.8	8.00	4.8	C	C
22	46.4	45.4	45.7	45.8	46.0	46.5	45.7	46.0	45.4	45.8	47.1	49.1	49.8	49.2	48.6	47.5	46.8	46.7	46.4	46.5	46.5	46.5	46.4	46.4	46.76	50.2	13.12	45.6	9.00	4.8	C	C
23	46.4	46.4	46.2	46.1	46.0	46.1	45.2	44.3	43.8	43.5	44.5	46.7	48.4	48.6	47.7	46.9	46.8	46.5	46.5	46.7	46.7	46.2	46.4	46.4	46.21	48.6	14.00	43.5	10.00	5.1	C	C
24	46.4	46.4	46.4	46.4	46.4	46.7	45.7	44.7	43.9	44.2	45.7	47.7	48.3	47.9	47.1	46.4	46.4	46.4	46.7	46.8	46.8	46.4	46.4	46.4	46.36	48.3	13.00	43.7	9.25	4.6	C	C
25	46.3	46.3	46.3	46.5	46.5	46.5	45.8	44.0	43.2	44.0	47.4	49.3	49.2	47.8	46.8	46.5	46.6	46.3	46.3	46.8	45.9	46.5	46.5	46.3	46.40	49.5	12.30	43.2	9.00	6.3	C	C
26	46.2	46.3	46.1	46.1	46.1	46.2	45.1	44.4	44.8	45.7	46.6	48.2	49.3	48.6	48.0	48.7	47.2	47.0	46.6	46.5	46.8	46.5	46.5	46.6	46.67	49.3	13.00	44.4	8.00	4.9	C	C
27	46.6	46.6	46.2	46.5	47.2	46.6	45.8	43.9	43.8	44.8	46.8	48.4	49.1	48.7	47.3	47.2	47.3	47.2	46.6	46.6	46.5	46.5	46.5	46.5	46.63	49.1	13.00	43.8	9.00	5.3	C	A
28	46.3	46.2	46.3	46.3	46.3	46.3	45.1	44.7	45.0	44.7	45.9	47.6	48.0	47.8	47.0	46.2	46.4	46.9	47.0	47.0	47.4	47.3	46.2	45.7	46.40	48.5	13.25	42.9	9.20	5.6	C	C
29	45.5	43.4	45.8	46.5	46.5	47.0	45.7	45.5	45.8	46.8	49.2	50.7	50.4	49.2	47.7	46.6	47.0	47.0	47.2	47.2	47.0	47.0	47.0	46.9	47.02	**50.7**	12.00	43.2	2.15	7.5	C	C
30	46.6	46.5	46.5	46.6	46.6	46.5	45.9	45.3	45.0	45.7	48.0	49.3	49.5	48.7	47.3	46.8	46.9	46.9	46.9	46.8	46.9	46.8	46.8	46.6	46.89	49.6	12.36	**41.9**	9.40	7.7	C	C
31	46.5	46.3	46.2	46.1	45.9	45.8	44.8	44.3	44.3	45.3	47.4	48.8	49.1	48.8	47.8	47.2	46.6	46.6	46.8	46.9	46.9	46.9	46.8	46.6	46.61	49.1	13.00	44.2	8.30	4.9	C	C
Mean	46.10	45.91	45.98	45.92	45.97	46.01	44.95	44.18	44.24	45.49	47.39	48.88	49.27	48.55	47.40	46.59	46.41	46.67	46.55	46.58	46.56	46.47	46.35	46.25	46.44	49.51		43.66		5.85		

DECLINATION: 4°+ . ′ . W

Hour / Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	46.5	46.5	46.3	46.3	46.3	46.3	45.4	44.6	43.6	44.0	45.9	47.7	48.1	48.4	47.8	47.2	47.2
2	46.6	46.4	46.4	46.3	46.4	46.6	45.8	44.7	43.9	44.0	45.8	47.8	48.8	48.9	47.9	47.1	47.0
3	46.6	46.4	46.4	46.4	46.0	46.0	45.1	43.7	42.6	43.9	45.9	46.9	47.9	48.2	47.9	47.1	47.1
4	46.6	46.3	46.3	46.4	46.4	46.6	45.9	45.1	44.0	45.1	47.4	49.0	49.7	49.3	47.8	47.1	47.3
5	45.4	48.8	45.9	45.4	45.2	46.2	47.1	46.7	46.3	46.3	47.8	49.7	50.5	49.6	48.8	48.2	48.6
6	46.6	46.7	46.6	47.0	46.7	46.9	45.9	45.2	45.6	46.9	49.3	49.4	50.0	49.2	48.5	48.3	47.7
7	46.2	46.6	46.3	45.9	46.6	46.0	45.8	44.0	44.9	45.2	47.3	49.7	50.5	48.8	47.3	46.7	47.7
8	47.1	47.0	46.9	46.7	47.1	46.6	46.3	45.4	45.1	46.3	47.5	49.6	50.7	50.3	49.0	48.1	47.3
9	46.7	46.7	46.6	46.6	46.6	46.7	47.1	45.1	43.5	43.3	46.6	49.2	49.6	49.3	47.9	47.5	47.8
10	46.5	46.5	46.1	46.4	46.7	47.2	46.0	44.6	44.4	44.5	46.4	48.2	49.1	49.0	48.3	46.4	47.8
11	46.8	46.8	46.8	46.7	46.7	46.5	45.5	44.4	43.8	44.5	45.9	47.9	49.1	49.1	48.2	47.5	47.5
12	46.7	46.7	46.7	46.7	46.7	46.7	46.0	44.6	44.1	44.8	46.7	48.2	49.5	49.4	48.6	48.2	48.2
13	46.8	44.4	45.2	48.0	49.3	48.9	48.2	47.5	48.0	48.4	48.9	50.1	49.9	49.9	48.2	48.4	48.7
14	46.4	47.0	48.2	47.8	47.4	46.8	46.1	45.3	45.6	46.8	47.5	47.4	48.2	48.0	48.0	47.5	48.4
15	47.6	47.5	47.4	46.8	46.7	46.5	46.8	46.0	46.7	48.7	49.7	50.6	51.4	49.7	48.0	47.2	47.1
16	49.4	44.1	45.3	47.8	51.7	51.8	50.9	51.0	50.9	50.1	49.3	50.5	52.0	50.6	49.8	48.2	52.0
17	46.7	46.7	47.6	48.4	48.9	47.9	48.0	47.6	46.5	46.5	46.7	47.4	48.7	48.7	48.0	47.4	46.4
18	48.4	48.0	47.3	47.6	47.3	47.1	47.5	47.1	46.8	47.5	47.6	48.1	48.7	49.0	48.7	48.5	47.7
19	48.1	48.0	47.7	47.7	47.9	48.0	47.5	46.8	45.8	45.8	47.6	48.3	49.4	49.0	48.7	48.3	48.3
20	47.9	47.7	47.6	47.7	47.9	48.1	48.1	46.9	46.1	46.8	47.3	48.0	48.1	48.1	47.6	47.5	47.6
21	47.6	47.7	47.6	47.3	47.6	47.6	47.3	46.0	45.6	45.4	46.6	47.3	48.0	47.5	46.9	47.1	48.1
22	47.2	47.1	46.8	46.8	47.3	47.6	48.9	47.5	46.6	46.0	46.4	47.6	47.6	47.6	47.6	48.4	48.1
23	47.5	47.6	47.6	47.9	48.0	48.0	47.5	46.0	44.9	46.2	46.6	46.8	47.2	47.6	47.7	48.1	48.3
24	46.9	46.9	46.8	47.5	57.5	47.6	48.1	46.4	46.4	46.5	46.8	47.5	47.7	47.9	48.1	47.9	48.1
25	47.2	47.7	47.6	47.6	47.7	47.9	48.0	47.2	46.6	46.2	46.4	46.8	...	...	...	...	
26	46.9	47.2	47.5	47.5	47.5	47.5	46.9	46.2	46.2	46.5	46.4	46.9	46.8	46.8	47.6	48.0	47.6
27	47.0	47.0	46.7	46.3	46.7	47.0	47.2	47.3	47.4	47.2	47.7	48.4	...		...	48.1	47.7
28	46.2	45.9	47.0	47.0	47.2	47.4	47.2	45.9	45.2	45.9	46.3	46.9	47.3	47.2	46.9	47.7	48.1
29	47.3	46.6	46.3	46.5	47.2	47.2	47.4	46.5	45.9	46.1	47.7	48.2	48.1	48.1	47.4	47.4	47.4
30	47.3	47.4	46.7	47.1	47.1	47.0	46.7	46.3	46.2	47.4	48.1	48.6	48.3	47.9	47.1	47.0	47.7
Mean	47.02	46.82	46.78	47.01	47.28	47.26	46.96	45.97	45.54	46.05	47.21	48.34	48.96	48.68	48.01	47.61	47.89

DECLINATION: 4°+ . ′ . W

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	47.2	47.2	47.1	47.4	46.9	46.1	46.5	46.0	45.9	46.9	48.4	49.7	49.9	48.7	48.4	47.2	47.1
2	47.3	47.3	47.3	47.3	47.3	47.2	46.8	45.4	45.0	45.8	46.9	49.5	49.5	48.7	47.7	46.6	46.9
3	47.3	47.2	47.2	47.2	47.2	47.9	47.2	46.9	46.6	47.0	47.7	48.7	49.4	48.5	47.9	47.3	47.3
4	46.6	47.3	47.3	47.4	47.6	47.4	47.1	45.9	46.3	47.4	48.8	48.9	48.8	48.5	48.5	47.8	47.3
5	46.7	46.8	46.6	47.2	47.4	48.7	48.1	47.4	46.4	47.0	48.1	49.4	50.1	49.8	49.1	48.5	48.6
6	48.2	48.2	48.3	48.3	48.3	48.4	48.4	47.3	46.3	46.4	46.8	48.8	49.7	49.8	49.1	48.4	48.0
7	47.9	47.6	47.9	47.9	47.6	48.6	48.0	47.3	46.9	47.2	47.5	48.8	48.8	49.5	48.8	48.4	47.9
8	47.9	47.9	47.9	48.2	48.0	48.2	48.0	47.2	46.4	46.7	47.8	48.8	49.1	48.4	48.7	48.2	47.6
9	47.5	47.4	47.7	47.7	47.5	47.7	47.4	46.8	46.7	47.2	48.5	49.0	48.7	48.6	48.2	47.8	47.5
10	47.9	47.9	47.7	47.4	47.4	47.4	47.2	47.4	48.1	46.5	49.1	49.4	49.1	48.6	47.9	47.4	47.4
11	47.7	47.4	47.4	47.4	47.5	47.4	47.4	46.7	46.0	46.4	47.8	48.7	48.7	48.5	47.9	47.5	47.5
12	47.5	47.5	47.5	47.5	47.5	47.9	47.5	46.2	45.5	47.2	48.7	47.4	47.4	47.0	47.2	47.0	47.1
13	47.7	47.3	47.1	47.3	47.6	47.8	49.9	48.6	48.6	48.8	49.5	49.0	49.5	48.8	48.5	48.9	49.2
14	46.5	47.1	47.1	47.4	48.2	48.8	49.3	49.0	48.6	48.5	49.3	49.3	49.2	48.8	48.6	48.0	48.0
15	48.5	48.0	48.0	47.8	48.0	48.2	48.6	47.4	46.7	46.6	47.3	48.2	48.6	48.8	48.6	47.6	47.6
16	47.7	48.0	47.8	47.8	47.8	47.8	47.7	47.1	47.0	46.2	46.7	48.4	49.9	49.9	48.8	47.4	47.4
17	47.9	48.0	47.7	47.5	47.6	47.6	47.9	46.9	46.0	46.0	47.5	48.7	49.2	49.2	48.4	47.3	47.7
18	47.9	48.0	48.0	48.1	47.9	47.7	47.2	47.0	46.0	46.4	47.9	49.2	49.8	49.1	47.9	47.3	47.7
19	47.6	47.9	47.5	47.7	47.7	47.3	47.5	46.9	46.2	46.5	47.7	48.7	49.2	48.7	48.0	47.0	47.3
20	47.7	47.9	47.9	48.4	47.5	47.6	48.1	47.2	47.0	47.2	47.9	48.9	49.6	48.7	48.5	47.7	48.0
21	46.5	48.1	47.3	48.3	47.9	48.3	48.3	47.3	46.5	47.3	48.5	49.9	50.3	49.5	48.7	47.9	47.7
22	48.0	48.0	48.0	48.1	48.1	48.0	47.7	46.5	45.8	45.8	47.6	49.6	49.9	49.1	48.3	47.3	47.5
23	47.9	48.0	48.1	48.3	48.4	48.1	47.9	46.9	45.8	47.0	49.6	50.2	50.0	49.8	49.1	48.0	47.7
24	47.9	...	...	...	...	...	47.7	47.0	46.2	47.0	47.9	49.1	49.2	48.9	48.4	47.6	47.6
25	47.7	47.6	47.6	47.6	47.6	47.9	47.9	47.3	46.5	47.0	48.4	48.5	48.4	48.4	48.3	47.9	47.9
26	47.5	47.2	47.2	47.2	47.3	47.6	48.5	47.6	46.6	46.6	48.3	49.2	50.2	49.0	48.9	47.6	47.3
27	47.7	47.3	47.7	47.3	47.5	47.6	47.6	46.9	45.8	46.5	48.6	49.1	47.2	49.2	48.4	47.3	47.7
28	47.6	47.6	47.5	47.3	47.3	47.3	47.5	46.6	45.3	45.4	47.0	48.4	48.5	48.4	48.4	47.5	47.3
29	47.6	47.5	47.5	47.0	47.2	48.1	47.6	47.9	47.6	47.5	48.4	48.8	48.5	48.5	48.4	47.5	47.3
30	47.2	47.2	47.3	47.2	47.2	47.5	48.0	47.0	46.5	47.2	48.7	49.8	49.2	49.1	48.5	47.9	47.9
31	47.7	47.7	47.6	47.3	47.3	47.3	48.3	47.9	46.6	47.0	48.5	49.4	49.4	48.5	48.0	47.6	47.5
Mean	47.55	47.60	47.57	47.62	47.61	47.78	47.84	47.08	46.47	46.84	48.12	49.01	49.19	48.87	48.39	47.66	47.63

NOVEMBER, 1905.

Day	18	19	20	21	22	23	24	Mean	Maximum	h m	Minimum	h m	Range	Remarks a. m.	Remarks p. m.
1	46.9	46.6	46.6	46.6	46.5	46.5	46.5	46.43	48.4	14.00	43.4	9.20	5.0	C	C
2	47.0	46.7	46.7	46.7	46.7	46.6	46.6	46.56	48.9	14.00	43.7	9.10	5.2	C	C
3	46.7	46.6	46.7	46.7	46.7	46.6	46.7	46.28	48.2	14.00	**42.4**	8.55	5.8	C	C
4	47.1	46.7	46.7	46.9	47.4	46.7	45.9	46.82	49.8	13.10	43.9	9.20	5.9	C	C
5	48.3	47.8	47.3	47.3	47.0	46.4	46.7	47.39	50.5	13.00	45.2	5.00	5.3	C	C
6	47.9	48.0	47.3	47.4	46.9	46.9	45.4	47.35	50.3	13.20	45.2	8.00	5.1	C	C
7	47.3	46.9	47.1	47.1	46.6	46.7	46.9	46.84	50.5	13.00	43.9	8.05	6.6	C	C
8	47.7	47.0	47.0	46.9	46.7	46.7	46.7	47.32	50.7	13.00	44.9	8.50	5.8	C	C
9	47.7	47.4	47.1	47.1	47.1	47.0	46.7	46.95	49.6	14.00	42.6	9.45	7.0	C	C
10	47.8	46.7	47.4	46.7	46.8	46.8	46.8	46.80	49.1	13.00	43.8	9.15	5.3	C	C
11	47.5	47.5	47.5	47.5	47.2	47.0	47.0	46.87	49.3	13.30	43.8	9.00	5.5	C	C
12	48.9	47.0	49.8	49.5	48.3	48.0	47.4	47.39	51.4	20.20	43.3	19.25	8.1	C	S'
13	49.3	49.3	49.5	48.2	48.0	47.5	46.0	48.19	50.8	19.40	44.0	2.05	6.8	S'	A
14	48.4	48.7	47.2	47.0	47.0	47.8	47.5	47.33	48.7	19.00	45.3	8.00	3.4	C	A
15	47.2	47.5	47.5	47.5	47.8	47.4	47.9	47.80	**52.1**	12.55	45.5	8.30	6.6	C	C
16	50.1	50.8	51.0	49.5	45.9	45.5	48.7	49.45	**52.1**	17.20	44.0	1.40	8.1	S'	S'
17	47.2	47.5	48.3	47.6	48.3	48.0	48.7	47.65	49.0	21.55	46.3	8.50	2.7	A	A
18	48.5	48.7	48.3	48.1	48.5	48.8	48.4	48.01	49.0	14.00 15.00	46.6	8.30	2.4	C	C
19	47.9	48.3	48.3	48.1	47.7	48.1	48.1	47.89	49.4	13.30	45.4	9.30	4.0	C	C
20	47.6	48.0	47.9	48.0	48.0	48.0	47.9	47.68	48.8	13.40	46.1	9.00	2.7	C	C
21	48.3	48.8	48.3	48.1	48.1	48.0	47.3	47.42	49.0	19.20	45.3	10.20	3.7	C	C
22	48.0	48.4	48.4	48.0	47.9	47.9	47.6	47.55	49.0	19.30	46.0	10.00	3.0	C	C
23	48.1	48.0	48.1	47.1	47.9	47.3	47.5	47.40	48.3	17.00	44.7	8.40	3.6	C	C
24	48.0	48.1	46.9	48.1	47.6	47.6	48.0	47.45	48.3	15.20	46.2	8.20	2.1	C	C
25	47.5	47.5	47.5	47.3	47.3	47.3	47.3			...	46.2	10.00	...	C	C
26	47.6	47.6	47.5	47.3	47.3	47.3	47.3	47.16	48.0	16.00 15.30	46.2	8-9	1.8	C	C
27	48.4	48.1	47.8	47.6	47.7	47.4	46.5	...	48.6	18.20	45.8	3.30	2.8	C	C
28	47.6	47.6	47.6	48.0	46.9	47.3	47.3	46.98	48.2	17.10	45.2	9.00	3.0	C	C
29	47.3	47.3	47.6	47.4	47.6	47.4	47.3	47.22	48.2	12-13	45.7	9.30	2.5	C	C
30	47.5	47.5	47.5	47.5	47.4	47.4	47.4	47.32	48.6	12.00	45.9	8.30	2.7	C	C
Mean	47.84	47.75	47.75	47.57	47.35	47.26	47.22	47.31	49.44		44.82		4.63		

DECEMBER, 1905.

Day	18	19	20	21	22	23	24	Mean	Maximum	h m	Minimum	h m	Range	Remarks a. m.	Remarks p. m.
1	47.1	47.4	47.4	47.2	47.2	47.2	47.1	47.38	49.9	13.00	45.7	8.40	4.2	C	C
2	47.3	47.5	47.5	47.2	47.3	47.3	47.3	47.25	49.6	12.30	**45.0**	9.00	4.6	C	C
3	47.6	47.6	47.5	46.8	47.0	47.2	47.2	47.47	49.4	13.00	46.4	9.05	3.0	C	C
4	48.1	48.1	47.4	47.4	45.8	47.4	47.4	47.52	49.5	11.30	45.6	8.20	3.9	C	A
5	48.1	47.5	47.9	48.2	48.1	48.1	47.1	48.00	50.2	12.30	45.7	2.28	4.5	C	C
6	48.2	48.0	48.2	48.0	48.0	48.0	47.9	48.12	49.8	14.00	46.1	9.20	3.7	C	C
7	48.0	48.0	48.0	48.2	48.0	48.0	47.9	48.03	49.5	14.00	46.9	9.00	2.6	C	C
8	47.8	48.2	48.2	48.2	48.0	48.0	48.0	47.97	49.1	13.00	46.4	9.00	2.7	C	C
9	47.8	47.8	47.8	47.5	47.8	47.9	47.9	47.77	49.0	12.00	46.6	8.20	2.4	C	C
10	46.5	47.8	47.8	47.8	47.8	47.8	47.8	47.30	49.6	0.30	47.2	7.00	2.4	C	C
11	47.5	47.7	47.7	47.7	47.5	47.8	47.8	47.57	48.7	12-13	46.0	9.00	2.7	C	C
12	47.9	47.9	47.9	47.5	47.4	47.2	47.4	47.32	48.7	11.00	45.3	8.30	3.4	C	C
13	49.9	50.5	47.7	47.4	48.0	47.6	47.4	48.45	**50.7**	18.55	47.3	2.00	3.4	C	A
14	47.6	48.0	48.0	48.0	48.0	47.8	48.1	48.22	49.4	12.25	46.5	1.00	2.9	C	C
15	47.8	48.0	48.1	48.1	48.1	48.0	57.4	47.92	48.8	14.00	46.6	10.00	2.2	C	C
16	47.4	47.7	48.0	47.8	48.0	47.8	48.0	47.84	49.9	13-14	46.2	10.00	3.7	C	C
17	47.7	48.3	47.9	48.0	47.7	47.7	47.7	47.75	49.4	13.30	45.8	9.30	3.6	C	C
18	47.3	47.5	48.0	47.6	47.7	47.7	47.3	47.76	49.9	12.40	46.0	9.00	3.9	C	C
19	47.2	47.5	47.7	47.3	47.3	47.3	47.6	47.55	49.2	13.00	46.2	9.00	3.0	C	C
20	48.0	48.4	47.5	47.7	47.6	46.0	46.6	47.82	49.6	13.00	47.0	9.00	2.6	C	C
21	47.6	47.6	47.9	47.9	48.0	48.0	48.1	48.06	50.3	13.00	46.5	1.9	3.8	A	C
22	47.6	47.7	47.7	47.7	47.9	47.9	47.9	47.82	49.9	13.00	45.5	9.30	4.4	C	C
23	47.7	47.7	47.7	47.6	47.6	47.6	47.7	48.10	50.3	12.30	45.8	9.00	4.5	C	C
24	47.3	47.3	47.5	47.5	47.5	47.5	47.6	...		...		...		C	C
25	47.6	47.7	47.6	47.3	47.3	47.2	47.3	47.70	48.5	17.00 12.30	46.5	9.00	2.0	C	C
26	47.7	46.7	46.6	47.5	47.3	47.3	47.5	47.68	50.3	13.30	46.4	9.40	3.9	C	C
27	47.7	47.7	47.7	47.3	47.3	47.3	47.6	47.58	49.2	13.14	45.8	9.00	3.4	C	C
28	47.2	47.2	47.3	47.6	47.9	47.9	47.3	47.39	48.5	13.00	45.3	9.00	3.2	C	C
29	47.9	48.0	48.0	48.3	48.1	47.5	47.3	47.83	48.8	12.00	46.9	3.40	1.9	C	C
30	47.7	48.1	48.4	48.4	48.3	47.9	47.9	47.92	49.8	12.00	46.2	9.10	3.6	C	C
31	47.3	47.6	47.7	47.9	47.5	47.7	47.7	47.79	49.6	12.30	46.5	9.10	3.1	C	C
Mean	47.69	48.18	47.76	47.70	47.65	47.60	47.61	47.78	49.50		46.20		3.31		

HORIZONTAL INTENSITY: 0.29 . . . C.G.S.

JANUARY, 1905.

Day \ Hour	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	Maximum	h m	Minimum	h m	Range	Remarks a. m.	Remarks p. m.
1	963	964	967	970	968	968	971	974	978	978	972	971	967	969	970	965	961	957	955	939	950	950	958	958	964.3	978	9-10	939	12.00	39	C	A
2	962	969	962	962	968	966	973	974	974	970	961	973	967	969	973	975	974	970	967	968	969	969	970	967	968.5	975	8.30,16.00	952	0.30	23	C	C
3	966	966	966	967	969	971	973	978	980	977	975	973	969	963	964	964	964	961	957	961	957	959	963	965	967.0	980	9.00	954	19.35	26	C	C
4	968	968	970	972	972	973	979	982	990	991	986	977	975	987	981	983	985	974	968	966	971	958	968	967	975.5	991	10.00	956	22.20	35	C	A
5	973	965	969	971	974	974	987	986	982	974	963	964	961	957	960	969	968	965	965	971	967	976	972	973	969.9	989	8.30	957	14.00	32	S°	A
6	971	958	956	954	965	977	963	969	965	958	967	964	959	945	941	944	940	936	960	940	936	947	944	943	953.4	977	6.00	**936**	18.21	41	S°	A
7	945	953	949	950	950	955	959	961	960	954	950	953	956	960	964	966	965	961	955	954	952	953	952	955	955.5	966	16.00	945	1.00	21	A	C
8	960	967	956	960	961	965	965	962	960	965	963	971	967	969	971	973	967	962	959	961	962	965	963	965	964.1	973	16.00	956	3.00	17	C	C
9	965	967	970	971	973	972	975	980	983	983	980	986	982	983	983	981	979	976	977	976	977	974	973	976	976.7	986	12.00	965	1.00	21	C	C
10	976	974	978	980	980	984	993	1001	1000	984	980	987	976	970	976	970	967	965	965	969	964	970	971	970	977.1	1007	8.40	964	21.00	43	A	A
11	974	973	976	974	977	983	979	983	979	972	975	982	988	983	978	968	955	952	949	944	942	950	948	965	968.7	988	13.00	942	21.00	46	C	S°
12	957	961	960	961	963	965	674	979	980	979	977	982	990	988	988	993	981	973	971	970	968	967	969	968	973.5	993	16.00	957	1.00	36	C	A
13	973	969	978	977	970	967	967	974	969	953	954	960	956	957	972	980	972	971	969	966	965	962	966	967	967.2	980	16.00	950	10.30	30	A	C
14	972	974	975	974	975	975	975	980	980	975	964	958	956	965	980	983	995	987	985	960	970	972	965	962	973.2	995	17.00	956	13.00	39	C	A
15	961	966	959	963	962	971	974	975	973	958	942	937	951	960	967	972	971	966	959	960	966	966	965	970	963.1	975	8.00	937	12.00	38	A	C
16	969	969	971	974	975	977	979	979	970	962	958	963	960	964	969	971	975	975	975	978	978	978	978	978	971.9	979	7-8	958	11.00	21	C	C
17	979	980	982	983	983	983	986	987	995	974	957	955	950	959	967	972	980	975	966	945	954	969	960	957	970.7	999	9.10	945	20.00	54	C	S°
18	973	979	666	967	964	969	973	976	983	983	983	976	973	973	979	987	983	974	978	973	973	973	977	977	975.5	997	1.20	964	5.00	33	S°	A
19	975	976	978	977	976	982	983	988	983	976	969	972	974	968	972	975	976	975	976	977	978	981	978	978	976.8	988	8.00	968	14.00	20	A	C
20	974	977	971	973	972	988	990	992	992	996	990	976	978	978	978	986	990	995	990	980	980	985	985	979	983.1	1000	9.40	971	3.00	29	A	A
21	979	981	983	982	984	989	979	1003	1000	992	978	975	979	981	986	990	992	991	988	988	983	981	989	983	985.7	1003	8.00	975	12.00	28	A	C
22	983	985	987	981	985	985	990	996	990	990	982	986	983	979	972	976	977	967	967	948	944	956	955	948	975.5	996	8.00	944	21.00	52	C	S°
23	961	989	975	970	971	975	982	986	984	977	976	994	995	1001	1004	1000	1005	1003	998	998	995	993	993	992	988.2	1005	17.00	961	1.00	44	A	A
24	992	994	996	992	990	993	1000	1002	998	988	977	985	991	999	1005	1016	1023	1006	1004	986	976	986	988	991	994.9	**1023**	17.00	976	21.00	47	A	A
25	989	997	994	997	999	1014	1007	998	992	978	975	982	978	976	982	989	996	991	982	991	996	996	995	996	991.2	1017	6.20	975	11.00	42	A	A
26	1001	1004	995	997	1000	1004	1001	997	995	984	993	...	1003	1004	1007	1011	0007	1002	996	989	982	989	985	987	...	1011	16.00	982	21.00	29	A	C
27	992	990	991	992	996	999	1001	996	986	970	968	977	984	997	1006	1011	1010	1006	1006	1006	1004	1001	996	997	995.1	1011	16.00	968	11.00	43	C	C
28	998	998	994	1002	997	994	988	989	988	972	958	967	979	990	993	994	990	987	982	986	981	987	991	986	987.1	1002	4.00	958	11.00	44	C	A
29	980	983	987	994	991	990	989	993	989	981	973	963	972	980	994	988	962	982	986	986	980	985	978	977	982.6	1002	4.30	962	17.10	40	C	A
30	980	988	996	1000	987	984	984	983	973	961	953	972	979	982	985	983	981	975	972	970	977	975	983	982	979.4	1004	3.40	953	11.00	51	A	A
31	979	985	984	985	985	987	989	985	973	962	957	964	970	971	974	976	982	987	994	983	976	971	999	981	979.1	999	23.00	957	11.00	42	C	S°
Mean	97.30	97.52	97.46	97.58	97.61	97.92	98.09	98.37	98.16	97.44	96.88	97.15	97.22	97.41	97.78	98.00	97.80	975.5	973.5	970.0	969.7	971.8	973.1	972.4	975.2	992.6		956.7		35.9		

HORIZONTAL INTENSITY: 0.29 . . . C.G.S.

FEBRUARY, 1905.

Day \ Hour	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	Maximum	h m	Minimum	h m	Range	Remarks a. m.	Remarks p. m.
1	974	986	992	987	985	1000	994	998	996	982	973	975	981	984	994	993	993	986	985	980	974	977	985	989	986.0	1000	6.00	973	11.00	27	A	C
2	986	987	989	988	985	986	985	1003	1007	1002	965	958	937	951	956	959	961	964	964	964	964	968	973	967	973.7	1007	9.00	937	13.00	70	C	C
3	968	966	968	970	972	976	984	987	982	969	983	995	1009	985	955	955	955	940	890	872	860	859	892	909	950.4	**1009**	13.00	**859**	22.00	150	C	S
4	920	914	951	939	953	1002	950	957	969	957	955		979	942	940	937	938	937	938	936	935	920	927	934	...	1002	6.00	914	2.00	88	S	S°
5	930	939	943	939	939	941	944	937	930	924	924	928	941	944	940	938	930	950	946	942	946	946	970	938	939.5	970	23.00	924	10-11	46	S°	S°
6	939	958	969	943	937	948	952	955	950	931	920	935	942	950	962	963	955	957	962	960	962	973	963	966	952.2	973	22.00	920	11.00	53	S°	S°
7	964	958	960	960	963	965	962	959	960	948	940	947	957	961	966	971	968	959	956	956	954	955	958	962	958.7	971	16.00	940	11.00	31	A	C
8	951	950	952	962	959	918	951	949	939	919	909	923	931	935	951	952	956	954	955	954	955	953	954	956	946.6	962	4.00	901	10.40	61	C	C
9	955	956	956	957	952	956	956	954	946	937	926	929	936	942	954	963	961	959	955	954	955	954	961	962	951.5	983	22.25	922	11.20	61	C	C
10	961	958	961	963	967	967	967	972	969	955	938	937	943	949	960	963	964	960	960	956	954	951	949	966	957.9	972	8.00	937	12.00	35	C	C
11	962	959	956	960	960	983	991	993	986	974	964	958	957	958	964	971	979	985	983	975	970	967	967	967	970.4	993	8.00	956	3.00	37	C	C
12	966	966	968	969	972	974	981	996	982	969	961	959	963	977	979	986	991	992	987	982	976	966	963	962	974.0	992	18.00	959	12.00	33	C	A
13	959	959	970	966	967	967	969	965	957	944	939	942	944	949	947	948	—		940	940	942	943	942	943		970	3.00	939	11.00	31	C	C
14	963	963	963	965	967	971	977	990	972	958	950	942	943	952	964	968	978	963	966	964	955	941	955	947	961.1	980	8.00	931	21.40	49	C	S°
15	965	957	959	967	966	961	967	978	974	969	955	949	958	966	960	969	963	968	965	962	962	966	961	963	963.7	978	8.00	949	12.00	29	A	A
16	969	966	965	968	967	968	955	960	961	952	952	958	944	944	954	964	...	975	969	974	966	979	966	963		989	21.30	940	14.30	49	C	S°
17	967	974	976	970	967	960	972	974	970	970	959	961	946	946	954	960	963	959	957	953	981	965	967	964	964.0	981	21.00	943	13.40	38	A	A
18	969	966	965	967	965	970	970	972	974	966	953	952	954	955	955	958	959	958	962	960	964	961	960	961	962.3	974	9.00	952	12.00	22	C	C
19	972	964	965	961	963	968	973	978	979	976	969	968	965	968	969	971	970	969	969	967	964	963	964	963	968.2	979	9.00	961	4.00	18	C	C
20	965	965	965	963	966	968	972	973	966	962	960	968	971	970	970	969	970	970	970	969	972	973	976	973	968.6	976	23.00	960	11.00	16	C	C
21	971	967	967	966	969	977	984	983	979	974	969	988	983	980	982	984	981	968	959	957	962	966	952	958	971.9	988	12.00	952	23.00	36	C	C
22	946	952	957	969	968	973	979	978	972	971	977	...	...	982	976	970	970	966	953	967	964	966	965	967		982	14.00	946	1.00	36	C	C
23	970	971	977	973	970	986	678	977	968	923	926	935	953	965	967	964	945	941	931	959	951	948	946	951	957.3	986	6.00	920	10.35	66	C	S°
24	952	954	953	950	957	958	963	964	964	961	949	938	957	974	982	980	981	975	977	980	979	977	973	973	965.9	982	15.00	938	12.00	44	A	C
25	972	967	969	969	972	970	978	981	979	973	968	970	974	976	984	990	991	980	967	972	950	984	961	963	973.7	991	17.00	951	21.35	40	C	A
26	969	968	971	973	973	974	981	983	984	980	969	967	971	973	978	982	973	966	970	966	970	970	972	970	973.0	984	9.00	966	18.20	18	C	A
27	963	962	950	959	963	961	964	968	963	957	947	957	957	959	964	957	950	943	941	939	941	941	945	951	954.2	968	8.00	939	20.00	29	C	C
28	948	964	962	956	957	953	960	963	956	957	947	950	953	955	969	975	981	980	974	974	970	972	975	976	963.6	981	17.00	947	11.00	34	C	C
Mean	962.6	963.5	964.8	964.5	964.4	967.5	971.0	973.6	969.8	959.8	951.0	953.7	957.6	961.5	965.8	968.4	967.4	964.4	960.8	959.0	958.3	958.2	960.1	960.7	962.9	982.5		939.0		43.5		

HORIZONTAL INTENSITY: 0.29 . . . C.G.S.

MARCH, 1905.

Day \ Hour	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	Maximum	h m	Minimum	h m	Range	Remarks a. m.	Remarks p. m.
1	977	979	981	984	986	986	983	...	...	...	...	973	973	975	979	984	991	988	987	989	990	992	987	984		992	22.00	973	12-13	19	C	A
2	976	977	965	974	971	978	983	980	974	968	947	955	949	949	946	939	930	960	968	911	922	926	968	963	948.3	983	7.00	**863**	24.00	120	A	S²
3	909	919	918	906	900	912	925	914	951	937	929	918	910	912	912	918	927	925	926	923	928	924	924	925	923.0	951	9.00	875	0.20	76	S	A
4	921	923	920	920	924	925	928	921	910	892	979	879	880	895	912	917	919	920	922	929	928	927	940	914	915.2	944	24.00	879	11-12	65	C	S²
5	946	944	947	949	953	956	956	954	941	926	925	938	947	973	981	973	961	956	943	925	948	970	955	981	952.0	981	15.24	925	11.00	56	C	S
6	964	952	961	962	976	975	985	974	953	951	936	956	947	957	971	982	985	973	965	963	963	963	966	967	964.5	985	7.17	936	11.00	49	S²	A
7	972	980	967	969	979	979	989	978	960	948	941	965	929	933	952	958	942	933	915	917	923	942	921	930	950.9	994	7.15	899	19.20	95	A	S
8	932	935	935	929	935	940	947	945	933	928	927	939	943	951	952	936	938	937	947	958	948	948	943	943	940.4	958	20.00	927	11.00	31	S²	S²
9	945	951	946	945	949	944	955	950	935	931	932	944	953	965	969	968	966	959	960	966	962	964	963	953	953.1	969	15.00	931	10.00	38	A	C
10	955	958	968	961	955	954	956	943	930	924	933	948	964	968	979	976	972	972	972	972	974	972	971	968	960.2	979	15.00	924	10.60	55	C	C
11	963	964	965	960	963	958	958	959	959	952	953	960	967	974	977	974	972	972	975	974	976	971	969	973	966.2	977	15.00	952	10.00	25	C	C
12	967	964	964	961	961	962	964	961	956	965	977	974	986	991	988	967	967	975	974	966	960	964	973	960	969.0	991	14.00	956	0.25	35	C	C
13	968	969	967	970	970	972	980	979	981	970	959	963	957	957	965	961	969	960	963	953	960	967	970	965	966.1	981	9.00	953	20.00	28	C	C
14	962	964	962	962	968	968	968	967	962	960	953	958	970	978	988	986	991	987	980	976	964	960	956	958	968.7	991	17.00	953	11.00	38	C	C
15	959	962	981	979	969	970	974	966	962	936	944	946	957	962	967	970	975	969	966	960	967	967	967	965	963.7	981	3.00	934	10.30	47	A	A
16	961	973	957	960	949	946	972	966	979	977	975	978	975	977	975	954	952	951	942	946	942	939	938	950	960.1	983	10.35	938	23.00	45	A	A
17	950	954	954	954	958	956	954	948	944	944	947	955	965	976	977	969	965	962	963	960	956	960	968	961	958.3	977	15.00	944	9-10	33	C	C
18	962	963	960	964	967	965	961	957	949	938	940	955	976	987	982	975	965	965	965	963	962	961	959	962	962.6	987	14.00	938	10.00	49	C	C
19	965	963	966	969	971	974	972	965	954	950	959	984	997	1015	1021	989	990	985	978	977	968	969	972	970	976.0	1021	15.00	950	10.00	71	C	A
20	971	968	965	968	967	968	967	962	953	948	954	976	990	1001	1002	998	990	980	978	972	972	967	968	970	973.1	1002	15.00	948	10.00	54	C	C
21	965	968	962	968	962	962	955	948	937	934	940	959	974	982	980	976	970	966	959	963	968	969	969	971	962.8	982	14.00	934	10.00	48	C	C
22	966	969	967	966	969	970	965	957	950	946	949	959	970	975	978	978	980	964	982	978	973	970	971	972	967.7	982	19.00	946	10.00	36	C	C
23	971	977	979	984	978	980	977	973	966	962	967	985	996	1000	998	993	992	987	978	976	971	965	975	969	979.1	1000	14.00	962	10.00	38	A	A
24	966	966	968	970	969	970	973	969	958	940	940	956	965	970	962	964	967	965	964	964	963	956	958			973	7.00	940	10-11	33	C	C
25	960	964	962	964	968	970	972	966	955	947	953	963	970	979	980	974	973	975	972	970	972	969	966	962	966.9	980	15.00	947	10.00	33	C	C
26	962	964	966	966	966	972	977	976	969	961	959	964	979	986	990	989	986	980	980	981	978	976	975	975	974.0	990	15.00	959	11.00	31	C	C
27	977	976	979	980	984	985	987	983	973	972	985	1000	1007	1008	998	979	996	988	982	979	980	976	981	977	984.7	1008	14.00	972	10.00	36	C	A
28	973	971	960	962	963	964	970	958	954	954	956	973	984	988	988	981	978	974	972	974	972	973	972	969	970.2	988	14-15	954	9-10	34	C	C
29	972	970	968	971	972	974	974	969	960	956	962	984	999	1011	1026	1016	1011	1008	1002	1002	1003	1003	996	1001	988.0	**1026**	15.00	956	10.00	70	C	A
30	997	994	989	988	988	990	984	972	971	973	986	999	1007	1005	1013	1011	1001	999	999	1001	995	992	990	988	992.9	1013	15.00	971	9.00	42	A	A
31	985	989	987	985	987	988	997	984	970	958	965	978	1004	1011	1010	1011	1011	1007	1011	1013	1015	1013	1011	1015	996.0	1015	22.24	958	10.00	57	A	A
Mean	961.2	962.9	962.7	961.9	962.8	961.0	967.3	962.2	954.9	948.6	949.4	960.5	967.3	974.4	978.5	973.1	971.2	966.5	964.8	963.7	963.8	964.4	965.1	962.9	963.9	986.9		937.4		49.5		

HORIZONTAL INTENSITY: 0.29 . . . C.G.S.

APRIL, 1905.

Day \ Hour	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	Maximum	h m	Minimum	h m	Range	Remarks a. m.	Remarks p. m.
1	999	1001	1004	1004	1007	1011	1014	1001	989	975	998	1031	1058	1026	1006	975	985	991	992	956	984	980	1006	950	997.6	**1056**	13.00	950	24.00	108	A	S²
2	955	952	987	975	962	964	954	946	937	930	925	922	913	925	937	934	933	942	936	924	937	943	950	948	943.0	1006	3.40	**913**	13.00	93	S	S
3	952	951	964	968	951	960	957	945	947	947	943	936	932	926	925	943	943	943	943	938	956	951	947	958	946.9	968	4.00	925	15.00	43	S²	A
4	957	949	951	953	953	956	950	942	922	923	929	939	940	955	961	943	934	932	938	947	938	941	947	949	943.7	961	15.00	922	9.00	39	A	A
5	942	938	940	939	937	640	941	930	921	919	936	943	962	968	958	944	942	937	939	935	940	947	948	958	941.8	968	14.00	919	10.00	49	C	A
6	943	944	929	933	931	938	942	952	944	934	930	951	958	956	951	948	947	945	946	941	960	944	947	941	943.7	960	21.00	929	3.00	31	S²	A
7	944	944	939	940	939	941	937	933	923	925	935	943	947	963	946	946	944	950	948	945	948	950	954	954	943.2	963	14.00	923	9.00	40	A	A
8	949	951	948	950	949	944	941	940	924	921	933	945	962	965	964	966	960	953	949	948	946	946	945	945	947.7	966	16.00	921	10.00	45	C	C
9	942	948	946	948	950	951	948	941	932	928	939	961	979	985	984	977	970	972	967	963	965	965	962	965	957.8	985	14.00	928	10.00	57	C	C
10	966	963	967	959	961	959	956	959	948	936	947	961	975	988	989	977	972	960	959	960	962	962	959	957	962.6	989	15.00	936	10.00	53	C	C
11	952	955	951	949	949	951	950	946	937	922	928	942	977	991	980	978	980	972	969	969	974	969	969	971	959.6	991	14.00	922	10.00	69	C	C
12	964	962	961	955	950	960	958	958	950	957	971	976	989	995	991	987	979	979	983	981	981	979	975	969	971.2	995	14.00	950	5.9	45	C	A
13	963	955	946	940	953	960	955	949	949	945	944	971	978	973	964	971	971	965	963	965	965	963	970	967	960.2	978	13.00	940	4.00	38	A	C
14	951	953	961	959	961	955	954	946	936	936	940	951	972	981	983	978	972	968	969	962	962	956	966	959	959.6	983	15.00	936	9-10	47	C	A
15	963	968	969	978	967	970	966	973	962	957	951	933	938	967	963	955	952	953	956	955	950	947	949	949	958.0	987	4.20	922	12.15	65	A	A
16	952	656	948	956	958	961	958	953	952	945	945	954	965	965	967	966	958	957	957	956	958	954	952	960	956.4	967	15.00	945	10-11	22	A	C
17	954	954	957	956	959	960	959	955	948	945	950	963	969	971	963	959	957	958	954	960	958	957	959	959	957.7	971	14.00	945	10.00	26	C	C
18	960	958	957	957	960	960	958	954	948	946	956	966	976	980	975	968	966	966	963	959	957	957	955	957	960.8	980	14.00	946	10.00	34	C	C
19	956	955	956	957	961	959	953	940	927	919	931	953	964	969	967	956	958	955	955	948	946	946	945	946	950.9	969	14.00	919	10.00	50	C	C
20	950	952	955	954	954	946	941	939	939	945	951	971	966	947	939	933	921	913	930	918	921			...	...	971	12.00	**913**	18.00	58	C	C
21	...	...	945	941	949	943	943	941	935	937	934	953	953	932	931	939	931	944	933	938	942	943	954	938	...	954	23.00	931	15.17	23	A	A
22	932	939	955	949	947	945	941	935	943	945	961	973	978	973	969	961	958	957	959	953	951	944	942	938	952.0	978	13.00	932	1.00	46	C	C
23	937	939	941	941	944	953	946	937	928	939	948	965	972	973	971	971	968	955	951	951	949	946	945	944	950.6	973	14.00	928	9.00	45	C	C
24	945	942	943	945	945	946	940	931	922	936	954	975	984	984	980	976	970	961	960	958	958	958	959	959	955.6	984	13-14	922	9.00	62	C	C
25	958	959	957	956	957	957	957	950	942	950	962	974	983	987	982	975	971	966	963	965	962	961	963	963	963.3	987	14.00	912	9.00	45	C	C
26	977	969	975	974	964	965	959	956	942	944	948	968	962	950	956	950	947	932	927	925	934	943	940	940	952.0	977	1.00	925	20.00	52	C	A
27	938	937	938	940	942	945	941	937	926	921	933	946	962	974	985	975	966	961	958	954	945	939	942	940	947.7	985	15.00	921	10.00	64	C	A
28	932	941	934	939	938	938	938	936	927	923	928	942	959	967	967	969	959	952	947	948	947	944	946	948	944.6	969	14.16	923	10.00	46	C	C
29	948	946	945	949	947	957	962	954	938	931	940	953	953	969	966	968	968	960	955	955	957	963	953	948	953.5	969	14.00	931	10.00	38	A	A
30	947	940	935	963	962	952	951	942	927	922	928	949	960	961	971	970	968	964	961	963	964	960	958	959	952.9	975	15.30	917	9.40	58	C	C
Mean	952.8	952.5	953.7	954.7	953.3	955.6	953.1	947.9	939.0	936.5	944.0	956.6	966.7	971.1	968.6	963.8	960.6	957.5	956.0	953.0	955.5	954.1	955.3	953.6	954.8	980.1		929.7		50.4		

HORIZONTAL INTENSITY: 0·29 . . . C.G.S. — MAY, 1905.

Day \ Hour	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	Maximum	h m	Minimum	h m	Range	Remarks a.m.	Remarks p.m.
1	963	962	962	960	961	957	954	941	918	929	939	947	947	952	959	961	949	945	947	952	952	952	955	955	950.8	969	1.20	**909**	9.25	60	A	A
2	961	954	949	947	951	960	952	944	939	946	958	952	965	966	967	973	969	964	963	967	973	981	976	976	960.5	988	21.40	933	9.25	55	A	A
3	976	978	974	974	972	970	966	964	958	960	958	963	970	976	977	983	981	968	962	957	959	964	965	963	968.2	983	16.00	957	9.40, 20.00	26	C	C
4	959	957	956	956	957	957	952	941	933	936	950	976	986	986	982	971	960	956	954	953	950	953	953	959	958.0	986	13-14	933	9.00	53	C	C
5	956	958	953	951	955	956	949	940	935	939	949	960	968	972	969	973	962	955	954	954	949	948	947	946	954.1	973	16.00	935	9.00	38	C	C
6	943	941	941	940	943	938	936	934	940	946	958	968	976	980	982	981	977	967	964	965	965	967	969	967	957.8	982	15.00	931	8.00	48	C	C
7	965	964	962	965	964	968	965	959	960	955	955	956	971	980	980	984	976	968	972	971	971	973	970	967	967.9	989	15.00	955	10-11	34	C	C
8	966	966	968	965	965	968	964	956	942	939	944	957	974	986	984	980	966	956	957	959	956	956	954	959	962.0	986	14.00	939	10.00	47	C	C
9	960	957	957	956	952	955	959	950	946	933	934	946	958	964	971	967	960	949	956	955	954	951	952	955	954.0	971	15.00	933	10.00	38	C	C
10	953	953	952	952	957	962	951	937	922	915	920	932	945	950	957	954	947	939	947	946	948	948	948	950	945.2	962	6.00	915	10.00	47	C	C
11	949	950	952	952	953	953	945	937	935	936	941	940	947	955	960	966	959	950	946	942	943	942	940	944	947.4	971	15.40	935	9.00	36	C	C
12	944	943	945	942	943	949	949	949	949	945	956	962	973	978	981	985	977	967	961	964	963	967	969	949	958.7	985	16.00	942	4.00	43	C	A
13	957	946	949	949	955	961	955	948	943	945	966	980	989	992	995	995	988	984	982	982	968	958	955	961	966.8	995	15-16	943	9.00	52	C	A
14	958	954	956	958	962	960	959	947	940	940	952	971	977	983	981	977	973	969	973	970	970	969	963	964	963.5	983	14.00	937	9.00	46	A	C
15	964	965	963	959	958	956	948	942	939	949	955	961	973	982	983	985	979	973	973	969	967	965	966	963	944.0	985	16.00	939	9.00	46	C	C
16	961	961	963	963	964	962	949	945	952	965	976	978	978	978	980	980	976	970	977	974	973	971	970	972	968.2	980	15-16	945	8.00	35	C	A
17	965	974	973	974	973	970	962	946	943	951	961	976	988	996	992	982	977	973	974	973	973	971	966	967	970.8	**996**	14.00	943	9.00	53	C	C
18	967	962	961	959	969	970	957	951	957	965	977	977	975	977	977	981	982	978	981	980	977	977	975	975	971.1	982	17.00	951	8.00	31	A	A
19	968	964	964	969	982	986	974	959	948	944	946	960	964	968	964	966	972	960	950	949	950	953	950	947	960.7	986	6.00	930	10.25	56	S°	A
20	946	938	940	945	950	954	954	950	946	938	938	940	951	949	954	955	952	952	954	950	949	949	952	953	948.3	955	16.00	938	7.00, 16.10	17	C	C
21	951	954	953	955	957	959	952	944	933	928	937	945	958	963	963	960	955	951	948	951	953	951	945	947	950.5	963	14-15	928	10.00	35	C	C
22	948	948	946	942	946	946	943	940	942	937	939	945	949	953	963	972	972	970	960	963	963	961	960	952	952.5	972	16-17	937	10.00	35	C	A
23	952	948	945	945	951	956	972	972	972	968	974	981	991	985	984	990	991	983	981	965	968	962	968	969	969.7	991	13,17	945	3-4	46	C	A
24	969	965	963	960	962	958	956	963	956	956	958	969	979	984	975	967	964	958	953	953	954	954	953	950	962.0	984	14.00	950	24.00	34	C	C
25	956	957	958	956	958	952	950	947	945	951	962	974	981	980	963	957	959	957	955	957	957	955	953	949	957.9	981	13.00	945	9.00	36	C	A
26	950	948	948	948	952	946	946	947	955	958	960	960	962	964	964	956	954	950	950	948	952	954	955	952	953.3	964	14-15	946	6-7	18	C	C
27	953	954	940	946	940	948	948	942	948	941	946	956	963	973	972	967	956	957	965	957	953	943	940	965	953.0	978	14.20	940	3,5,23	38	A	S°
28	952	942	942	943	946	932	929	923	916	920	933	942	952	958	981	976	966	961	960	965	962	958	965	961	949.4	981	15.00	916	9.00	65	A	A
29	962	953	951	948	955	961	951	951	952	953	950	959	961	965	961	966	972	968	965	956	961	960	953	956	957.7	972	17.00	915	9.00	27	A	A
30	965	959	956	965	965	968	966	957	952	950	951	964	972	983	977	974	967	965	970	969	968	966	964	968	965.0	983	14.00	950	10.00	33	A	C
31	965	964	964	963	963	960	947	931	940	951	945	941	964	976	981	977	973	969	964	960	965	963	961	971	960.7	981	15.00	931	8.00	50	A	A
Mean	958.2	956.1	955.1	95.51	957.5	958.0	953.9	947.0	943.4	944.8	951.2	959.3	968.0	972.7	973.8	972.9	968.1	962.3	961.9	960.5	960.2	959.4	958.5	959.1	959.0	979.3		938.0		41.2		

HORIZONTAL INTENSITY: 0.29 . . . C.G.S. — JUNE, 1905.

Day \ Hour	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	Maximum	h m	Minimum	h m	Range	Remarks a.m.	Remarks p.m.
1	959	955	955	950	958	958	946	946	944	945	957	969	979	984	978	969	958	958	963	965	966	965	961	956	960.2	984	14.00	944	9.00	40	C	C
2	951	949	949	950	958	964	959	957	954	950	953	961	962	960	963	964	968	974	978	974	972	972	972	976	962.1	978	19.00	949	2-3	29	C	C
3	978	977	981	981	981	975	965	963	967	976	979	978	985	985	986	980	977	973	973	972	967	972	968	961	973.0	986	15.00	961	24.00	25	A	A
4	963	967	968	969	972	982	976	971	968	965	979	982	992	1008	997	989	980	976	970	976	970	969	964	956	975.4	**1008**	14.00	956	24.00	52	C	A
5	958	949	956	952	960	962	956	953	954	963	972	981	998	992	987	980	970	949	943	935	927	927	945	931	958.3	998	13.00	922	20.40	76	C	S°
6	936	934	938	938	943	941	935	935	942	954	969	974	984	982	974	963	956	953	953	953	966	968	954	941	953.6	984	13.00	934	2.00	50	C	A
7	946	953	949	944	945	969	955	945	935	949	962	969	978	980	975	964	960	954	954	955	952	949	946	955	956.0	983	13-50	935	9.00	48	A	A
8	941	945	948	948	950	951	949	943	933	928	953	973	983	981	972	967	963	959	959	957	965	965	964	965	956.7	983	13.00	928	10.00	55	C	C
9	961	955	954	956	963	971	955	937	939	341	958	962	460	961	967	975	969	967	970	970	966	966	962	952	959.9	975	16.00	937	8.00	38	A	A
10	952	927	944	940	949	949	937	941	945	947	961	970	972	969	957	957	956	956	960				953	929	..	972	13.00	927	2.00	45	S°	S°
11	926	926	927	926	934	926	926	923	924	917	930	917	920	921	918	916	926	928	929	926	918	930	929	932	924.8	934	5.00	916	16.00	18	A	A
12	924	918	918	920	926	928	926	918	919	922	926	930	924	915	912	906	918	919	919	923	924	925	924	925	921.2	930	12.00	906	16.00	24	A	C
13	918	917	915	917	917	919	915	911	912	919	929	929	930	932	928	929	929	934	933	930	928	933	935	935	924.7	935	23-24	911	8.00	24	C	C
14	935	936	937	937	939	937	941	946	949	952	953	948	951	954	949	940	933	937	940	945	948	946	945	944	943.4	954	14.00	933	17.00	21	C	C
15	938	936	936	934	934	933	925	920	930	934	938	942	957	958	947	943	939	949	946	950	945	939	936	929	939.1	958	14.00	920	8.00	38	C	A
16	933	931	924	926	929	924	912	908	906	926	943	948	950	943	937	926	921	930	930	930	930	930	931	938	929.4	950	13.00	906	9.00	44	C	C
17	932	929	931	930	925	919	910	904	905	917	929	926	940	946	915	937	929	933	927	927	932	926	924	925	927.0	946	14.00	904	8.00	42	C	C
18	920	921	918	917	918	921	912	905	900	898	912	918	928	939	940	935	927	926	921	925	925	916	914	916	919.7	940	15.00	898	10.00	42	C	C
19	911	910	908	911	913	911	903	901	903	903	910	914	918	922	926	932	915	915	909	910	911	911	913	913	912.2	932	16.00	901	8.00	31	C	C
20	910	909	909	909	910	910	901	897	897	896	906	914	912	920	931	921	916	920	911	911	912	916	912	912	910.9	931	15.00	896	10.00	35	C	C
21	907	911	912	913	911	908	908	904	901	907	933	928		913	917	908	910	919	918	918	918	923	918	922		933	11.00	901	9.00	32	C	A
22	926	925	923	922	928	917	912	898	901	907	918	913	924	928	927	918	906	918	909	912	916	915	917	905	915.1	928	5.14	895	18.00	33	A	A
23	908	907	908	901	902	907	902	890	878	898	911	916	923	923	896	886	976	874	974	959	861	888	899	900	895.3	923	13-14	**859**	20.00	64	A	A
24	901	910	911	899	894	902	882	878	889	898	912	896	903	904	908	901	902	895	903	907	905	911	916	914	901.3	916	23.00	876	8.05	40	A	A
25	910	908	908	908	913	919	917	911	899	897	894	888	895	904	910	914	914	918	914	919	920	916	915	910	909.2	922	6.20	888	12.00	34	C	C
26	907	907	904	906	906	905	901	902	900	891	894	902	910	919	922	926	920	928	924	922	925	925	924	920	912.1	928	18.00	891	10.00	37	C	A
27	921	918	921	921	919	914	907	899	896	898	905	909	916	916	917	923	919	916	910	914	915	914	913	913	913.1	923	16.00	896	9.00	27	C	C
28	912	910	913	916	920	918	912	909	908	909	916	914	921	918	924	922	924	926	925	924	925	930	926	924	918.6	930	22.00	908	9.00	22	C	C
29	915	915	916	919	921	922	915	907	905	916	923	924	931	935	932	935	931	933	930	931	933	930	927	927	923.9	935	14.16	905	9.00	30	C	C
30	924	931	922	919	916	912	907	893	902	917	927	929	927	926	920	915	911	908	914	914	916	916	915	913	916.4	931	2.00	893	8.00	38	A	A
Mean	930.9	930.3	930.3	929.5	931.9	932.4	925.8	920.4	920.0	924.5	934.2	936.6	942.9	944.9	942.4	938.4	934.2	933.8	933.2	933.4	933.6	934.6	934.0	931.7	932.7	950.9		913.1		37.7		

HORIZONTAL INTENSITY: 0.29 . . . C.G.S. — JULY, 1905.

Day \ Hour	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	Maximum	h m	Minimum	h m	Range	Remarks a. m.	Remarks p. m.
1	901	907	903	905	903	903	897	895	893	883	880	885	894	909	916	913	906	905	908	912	915	913	915	916	903.3	920	14.40	877	11.10	43	C	A
2	912	908	908	904	907	904	896	887	891	897	916	929	928	927	920	917	909	909	904	909	913	913	914	913	909.8	929	12.00	887	8.00	42	C	C
3	910	906	906	907	906	905	900	894	895	894	900	907	913	915	909	915	912	906	908	908	912	918	918	921	907.7	921	24.00	894	8.10	27	C	C
4	921	916	921	920	921	916	909	900	900	905	920	919	920	924	929	935	933	932	936	938	942	941	945	943	924.4	945	23.00	900	8-9	45	C	C
5	944	944	941	942	945	951	941	937	930	927	931	935	939	942	939	937	935	932	933	933	934	935	933	930	937.1	951	6.00	927	10.00	24	C	A
6	925	929	924	923	923	923	933	930	924	923	884	874	916	930	923	920	919	909	928	905	920	926	915	911	918.2	940	7.30	**868**	11.50	72	A	S°
7	...	925	912	908	917	927	906	887	887	898	889	900	918	919	919	912	914	910	902	914	918	918	924	925		927	6.00	887	8-9	40	S°	A
8	911	908	914	909	909	907	906	904	904	893	891	894	903	911	918	929	925	919	919	923	940	925	937	928	913.6	950	20.30	891	11.00	59	A	S°
9	922	922	918	912	914	914	912	907	903	904	905	901	919	927	928	929	928	917	926	926	924	928	931	927	918.5	939	23.30	901	12.00	38	A	A
10	922	920	922	917	917	917	916	909	907	921	924	923	936	936	931	930	929	928	933	934	936	936	936	934	925.6	936	{ 13-14 21-23	907	9.00	29	A	C
11	932	932	934	933	933	932	928	922	912	908	914	924	927	928	931	927	930	926	930	932	932	930	930	932	927.5	936	2.40	908	10.00	28	C	A
12	933	937	937	939	942	942	938	935	940	945	946	937	934	931	929	936	934	940	939	946	949	950	945	945	939.5	950	22.00	925	14.30	25	C	C
13	943	946	945	948	948	950	945	937	929	922	926	914	928	931	939	943	937	943	954	954	949	940	947	951	940.4	954	19-20	914	12.00	40	A	A
14	964	947	948	950	645	939	931	927	936	935	935	929	939	941	941	939	926	930	933	939	943	943	943	942	939.4	964	1.00	922	17.10	42	A	C
15	944	944	938	958	940	937	928	923	929	931	942	941	948	954	960	954	947	944	948	953	955	953	952	954	944.0	960	15.00	923	8.00	37	C	C
16	957	955	954	956	953	948	941	939	941	954	969	973	983	989	1003	983	971	964	964	962	966	969	969	967	963.7	**1003**	15.00	939	8.00	64	C	C
17	970	966	966	967	967	963	947	939	947	963	975	972	980	977	985	987	982	971	962	370	969	971	968	969	968.0	987	16.00	939	8.00	48	C	A
18	968	965	963	963	961	959	948	944	956	976	1002	996	997	982	982	974	965	963	959	967	967	965	969	968	969.1	1002	11.00	944	8.00	58	C	C
19	969	971	969	971	970	965	952	942	954	961	973	970	981	974	978	973	970	966	965	964	969	966	964	959	966.5	981	13.00	942	8.00	39	C	A
20	963	961	958	956	952	950	936	929	939	954	965	967	968	973	979	975	968	958	955	956	959	957	952	948	957.4	979	15.00	929	8.00	50	C	C
21	949	948	944	944	946	945	933	922	927	911	958	961	968	976	972	963	953	948	945	949	950	949	949	948	949.4	976	14.00	920	8.40	56	C	C
22	947	945	941	940	941	942	937	931	936	942	944	962	967	965	962	960	958	951	944	942	943	942	940	937	946.6	967	13.00	931	8.00	36	C	C
23	938	937	931	935	940	937	929	927	931	943	946	945	952	954	955	950	948	966	960	954	962	958	951	945	945.7	977	17.40	927	8.00	50	C	A
24	950	954	952	954	961	901	952	911	936	942	948	962	949	963	943	921	906	930	925	906	910	917	917	917	939.9	991	6.00	900	17.20	91	S	S°
25	915	912	918	914	914	907	900	892	892	901	917	928	925	927	933	932	929	925	925	926	924	923	924	923	917.7	933	15.00	892	8-9	41	S°	C
26	925	904	920	916	913	912	908	903	901	907	918	921	931	933	936	939	936	932	929	928	926	928	927	928	921.7	939	16.00	901	9.00	38	C	C
27	931	932	930	930	932	933	929	919	915	917	932	915	952	954	950	945	941	938	940	937	940	943	943	944	936.3	954	14.00	915	9.00	39	C	A
28	942	943	930	937	938	936	928	917	920	919	930	930	927	930	941	934	929	934	931	931	934	940	931	930	932.1	943	2.00	913	8.15	30	A	A
29	939	938	938	936	935	924	919	913	921	928	934	934	941	949	963	959	948	943	942	941	944	946	948	947	938.7	963	15.00	913	8.00	50	C	C
30	949	948	943	943	939	935	928	922	931	941	947	951	963	967	970	959	952	947	953	957	957	957	949	940	947.8	970	15.00	922	8.00	48	C	C
31	943	944	947	945	948	945	937	924	918	921	933	946	962	967	958	957	953	945	946	952	950	948	948	946	945.1	967	14.00	918	9.00	49	C	A
Mean	938.1	936.3	935.9	935.5	935.4	934.4	926.8	921.1	921.9	925.6	933.4	935.8	943.0	946.2	947.4	944.5	939.3	937.3	938.1	938.5	941.1	941.0	940.3	938.8	936.5	957.6		913.0		44.6		

HORIZONTAL INTENSITY: 0.29 . . . C.G.S. — AUGUST, 1905.

Day \ Hour	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	Maximum	h m	Minimum	h m	Range	Remarks a. m.	Remarks p. m.
1	949	951	951	949	947	942	928	920	924	932	942	953	965	968	971	968	959	952	957	955	955	960	962	963	951.0	971	15.00	920	8.00	51	C	C
2	966	962	960	962	966	956	940	939	950	975	936	970	946	954	945	893	855	843	...	863	900	880	873	894		**996**	11.00	**819**	18.20	177	A	S
3	894	963	961	961	867	894	885	875	882	892	892	899	915	921	919	920	913	908	917	904	906	927	924	924	904.7	927	22.00	875	8.00	52	A	S
4	922	921	925	924	922	913	901	894	878	894	902	903	928	941	942	930	929	912	919	922	917	923	921	929	916.8	942	15.00	878	9.00	64	S°	A
5	922	922	922	923	919	922	918	912	914	917	918	924	939	946	949	949	937	925	925	924	926	925	927	932	926.5	949	15-16	910	8.30	39	C	A
6	935	933	928	927	930	928	920	907	904	910	923	927	939	942	948	947	936	937	934	933	931	936	934	937	930.2	948	15.00	904	9.00	44	C	C
7	940	955	949	944	947	946	944	928	938	963	969	980	970	941	922	928	920	911	902	936	916	927	965	946	941.1	980	12.00	902	19.00	78	A	S°
8	946	950	955	974	958	962	953	936	921	927	932	932	944	948	944	941	938	947	950	952	959	956	952	975	947.2	975	24.00	915	8.15	60	A	C
9	952	953	957	950	960	957	946	933	930	938	944	956	968	972	981	985	979	968	974	974	973	976	972	974	961.6	985	16.00	930	9.00	55	C	C
10	978	977	972	972	969	965	958	943	945	966	977	973	979	978	982	980	984	986	990	988	987	982	975	975	974.2	990	19.00	943	8.00	47	C	C
11	973	970	970	971	972	965	957	952	952	957	964	985	983	978	976	983	979	978	980	975	976	975	981	976	972.0	985	12.00	952	8-9	33	C	C
12	973	972	967	967	969	969	970	960	949	942	959	965	972	982	986	990	992	987	991	995	995	987	988	988	975.6	995	20-21	942	10.00	53	C	A
13	982	976	978	978	978	981	979	965	961	972	973	970	980	990	992	987	993	988	985	989	979	985	988	986	981.0	993	17.00	961	9.00	32	A	C
14	976	977	966	966	964	961	953	945	946	952	961	972	985	991	966	951	939	938	941	952	949	954	952	969	959.4	991	14.00	938	18.00	53	A	A
15	962	960	957	961	961	956	943	934	929	929	934	948	956	956	952	947	945	943	940	940	940	940	937	938	946.2	962	1.00	929	9.10	33	A	C
16	941	940	941	942	942	938	926	921	918	925	931	945	944	951	969	956	935	930	941	947	936	932	935	933	938.0	969	15.00	918	9.00	51	C	A
17	934	936	935	939	939	936	929	919	909	913	931	945	951	952	947	947	940	942	943	942	942	939	937	936	936.8	952	14.00	907	9.25	45	C	C
18	937	938	941	943	946	944	935	930	914	961	968	976	977	980	975	967	955	950	955	952	953	953	953	948	953.4	980	14.00	930	8.00	50	C	C
19	950	951	952	953	956	950	938	929	931	941	952	965	971	967	969	965	958	952	955	954	952	952	958	952	953.0	971	13.00	929	8.00	42	C	A
20	954	952	953	955	956	950	943	933	935	939	943	938	944	952	947	943	947	938	931	932	939	938	938	940	943.3	956	5.00	931	19.00	25	C	A
21	941	943	940	947	945	943	937	927	930	936	946	959	961	964	962	961	955	946	941	941	941	940	938	935	945.0	964	14.00	927	8.00	37	C	C
22	936	932	930	931	932	927	921	912	910	916	916	926	933	934	940	946	943	943	942	945	949	943	938	945	932.9	949	21.00	910	9.00	39	C	A
23	946	945	944	945	941	930	922	916	942	930	937	942	946	951	953	956	958	948	945	948	945	949	948	946	943.0	958	17.00	916	8.00	42	A	A
24	953	939	938	936	938	937	925	913	910	916	922	933	931	938	944	941	937	930	929	930	924	926	934	935	931.6	953	1.00	910	9.00	43	C	C
25	935	937	940	941	940	946	925	918	920	931	943	945	947	945	946	935	925	926	927	924	937	940	936	936	935.2	947	13.00	918	8.00	29	C	A
26	932	938	937	939	931	937	929	919	918	924	929	925	934	943	947	941	935	930	930	936	934	934	934	941	933.6	947	15.00	918	9.00	29	C	C
27	939	938	939	937	936	934	921	916	918	930	949	930	949	937	952	945	941	942	935	931	932	931	932	932	935.4	952	15.00	916	8.00	36	C	C
28	932	936	933	933	936	932	927	921	921	916	920	938	939	944	948	947	936	934	933	934	927	924	921	918	931.2	955	15.35	916	16.00	39	C	C
29	916	918	924	926	945	939	931	914	905	908	928	940	951	949	947	921	909	925	933	931	931	924	934	920	927.9	951	13.00	905	9.00	46	A	A
30	910	926	921	929	929	929	918	907	913	926	944	947	934	921	908	890	887	902	909	904	912	912	932	919	917.8	947	12.00	880	17.30	67	A	S
31	920	928	927	924	923	916	904	898	898	904	909	926	934	938	934	932	927	925	933	928	958	938	927	925	924.0	958	21.00	898	8-9	60	A	A
Mean	942.7	943.9	943.1	943.7	944.6	941.5	933.0	923.2	923.2	930.3	938.6	945.6	952.3	954.0	953.9	949.8	944.1	941.4	942.9	943.9	944.4	944.3	945.8	945.8	942.3	963.4		917.6		45.8		

SEPTEMBER, 1905.

HORIZONTAL INTENSITY: 0.29 . . . C.G.S.

Hour / Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	934	930	929	930	929	929	919	890	872	883	920	930	639	944	944	944	948
2	935	934	934	935	933	930	917	909	902	904	916	930	934	936	948	949	947
3	947	943	940	940	937	934	929	920	916	916	922	927	939	946	948	953	975
4	908	917	923	925	922	924	912	912	906	914	917	922	.935	948	946	953	956
5	952	955	954	962	951	946	937	921	904	903	910	921	933	949	948	913	935
6	975	945	953	955	954	947	941	940	931	937	952	953	962	970	974	972	971
7	964	962	962	960	963	966	956	947	940	939	945	947	954	954	962	970	972
8	961	963	961	961	958	957	952	945	947	951	956	959	973	980	980		972
9	966	967	966	966	965	961	956	945	937	934	945	958	979	978	974	961	971
10	966	961	962	962	954	952	944	939	942	946	956	962	971	978	977	971	961
11	963	962	968	956	954	947	925	920	916	924	939	946	960	969	970	964	960
12	963	960	960	959	957	946	932	923	931	945	949	959	972	977	981	982	966
13	960	961	963	960	964	959	951	946	939	943	960	975	988	992	989	985	979
14	966	964	964	963	963	959	948	940	940	949	955	970	984	994	991	988	980
15	975	975	973	970	967	968	958	947	946	959	970	982	993	997	996	994	985
16	986	980	983	978	976	974	963	954	951	955	955	977	987	989	991	983	980
17	985	982	980	979	979	975	964	952	943	943	950	963	980	992	993	990	987
18	976	977	979	983	985	983	971	957	953	956	965	998	1010	1011	1011	1006	1005
19	974	969	994	985	990	993	988	961	948	946	950	944	942	949	924	914	912
20	925	923	936	939	954	945	940	933	931	932	936	936	939	943	941	949	943
21	943	942	944	946	944	939	934	915	914	926	938	947	956	956	956	954	938
22	942	944	947	950	947	945	939	927	919	930	938	956	960	967	963	959	951
23	964	971	946	950	950	948	937	935	931	929	933	949	965	972	972	965	955
24	950	948	951	950	949	949	947	942	940	942	945	957	963	970	966	955	951
25	956	955	953	954	953	954	953	950	952	957	960	979	984	983	981	972	960
26	968	971	968	971	961	959	960	941	937	945	958	974	986	984	968	951	915
27	935	937	937	939	947	938	924	918	922	939	954	964	958	940	934	912	899
28	931	936	934	933	935	932	920	910	909	914	921	947	955	961	954	949	948
29	942	942	950	940	943	940	929	918	914	919	927	946	953	963	963	955	949
30	955	954	958	958	957	958	947	935	931	934	940	967	988	988	978	966	959
Mean	955.7	954.4	956.1	955.6	955.5	952.4	943.3	933.1	928.6	933.8	943.0	955.7	965.4	969.8	967.7	962.7	956.5

Day	18	19	20	21	22	23	24	Mean	Maximum	h m	Minimum	h m	Range	Remarks a. m.	Remarks p. m.
1	943	939	936	934	941	937	935	928.3	948	17.00	**867**	9.20	81	A	C
2	942	943	941	942	942	945	942	932.9	949	16.00	902	9.00	47	C	C
3	937	906	...	...	...	...	902	...	975	17.00	902	24.00	73	C	S'
4	944	939	935	936	945	939	957	930.6	972	23.20	906	9.00	66	A	S'
5	935	947	946	958	956	959	979	941.8	979	24.00	903	10.00	76	A	A
6	967	965	968	973	969	965	964	958.5	975	1.00	931	9.00	44	A	C
7	371	968	965	968	966	963	966	959.6	972	17.00	939	10.00	33	C	C
8	973	974	966	965	966	967	962		980	14-15	945	8.00	35	C	A
9	973	974	972	972	974	969	963	963.6	979	13.00	934	10.00	45	A	A
10	958	961	959	956	963	969	958	959.5	978	14.00	939	8.00	39	C	A
11	964	958	959	957	965	971	962	953.3	971	23.00	916	9.00	55	A	A
12	962	965	971	973	966	963	959	959.2	982	16.00	923	8.00	59	C	C
13	973	971	969	965	965	967	967	966.3	992	14.00	939	9.00	53	C	C
14	976	974	974	975	976	978	974	968.6	994	14.00	940	8-9	54	C	C
15	980	975	973	976	979	983	979	975.0	997	14.00	946	9.00	51	C	C
16	976	976	979	979	977	981	984	975.6	991	15.00	951	9.00	40	C	C
17	984	979	977	975	973	973	977	974.0	993	15.00	943	9-10	50	O	C
18	971	938	950	953	961	971	966	976.5	**1011**	14-15	938	19.00	73	C	S'
19	898	891	905	929	919	922	919	944.8	999	5.00	891	19.00	108	S'	S'
20	943	943	941	941	941	943	943	939.2	954	5.00	923	2.00	31	A	C
21	929	925	927	928	938	936	938	938.0	956	13-15	903	8.15	53	A	C
22	950	941	944	941	945	947	959	946.3	967	14.00	919	9.00	48	C	C
23	951	952	950	947	948	946	959	951.0	972	14-15	929	10.00	43	C	C
24	945	949	949	951	954	958	958	951.6	970	14.00	940	9.00	30	C	C
25	961	960	959	955	955	955	969	961.2	984	13.00	950	8.00	34	C	C
26	897	916	921	929	933	937	931	949.2	986	13.00	897	18.00	89	A	A
27	897	906	898	914	928	926	931	929.0	964	12.00	897	18.00	67	A	S'
28	946	947	944	943	944	942	949	937.7	961	14.00	909	9.00	52	A	C
29	948	948	946	948	952	951	953	943.3	963	14-15	914	9.00	49	C	C
30	953	952	947	948	952	957	958	955.8	992	13.35	934	9.00	61	C	C
Mean	951.3	950.1	950.2	952.4	954.5	955.5	957.1	952.5	976.8		922.2		54.7		

OCTOBER, 1905.

HORIZONTAL INTENSITY: 0.29 . . . C.G.S.

Hour / Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	969	960	966	954	955	957	937	928	923	916	926	951	970	974	967	958	941
2	945	948	952	955	952	945	942	930	918	920	938	957	965	968	967	959	950
3	949	952	951	954	953	950	945	934	921	914	927	946	961	971	970	965	956
4	953	953	954	955	954	955	947	933	926	924	936	957	972	980	980	974	969
5	955	956	956	963	963	968	965	949	940	935	918	962	970	980	985	982	973
6	951	954	957	961	960	961	949	935	918	915	924	943	955	964	960	955	940
7	928	931	932	932	934	935	929	919	911	917	933	946	956	963	964	950	942
8	946	948	942	944	941	937	946	937	917	933	647	966	985	991	984	973	965
9	949	955	944	949	946	948	942	926	919	928	944	962	965	967	965	964	957
10	954	955	957	953	952	951	940	925	920	925	945	959	973	979	969	964	959
11	954	958	955	956	957	956	949	937	931	930	942	953	972	975	976	970	965
12	960	957	956	965	964	962	958	946	944	940	948	964	978	986	985	973	961
13	963	965	964	960	957	961	959	948	936	929	938	956	976	985	984	977	971
14	941	946	956	946	950	953	946	914	942	338	937	954	954	959	960	957	950
15	954	954	956	955	955	956	953	933	921	920	924	940	964	973	971	966	960
16	959	958	961	962	962	963	956	946	938	931	935	954	970	974	975	972	970
17	960	961	961	960	956	958	954	943	933	929	926	937	949	956	954	954	951
18	954	964	952	951	947	949	959	935	926	923	928	941	954	973	974	960	962
19	954	955	955	956	957	959	956	944	933	930	930	946	963	965	965	964	961
20	958	956	956	955	954	957	953	942	933	929	931	946	957	960	964	963	960
21	963	963	957	959	958	955	949	942	937	933	939	948	956	956	954	949	948
22	942	952	942	944	942	941	940	930	923	918	922	923	934	940	944	937	937
23	942	940	940	943	944	946	944	938	928	926	927	942	947	952	949	940	936
24	939	940	941	911	941	944	943	937	930	931	934	943	953	960	959	954	949
25	945	942	941	942	943	946	949	948	933	939	947	955	961	958	554	946	942
26	937	938	945	943	940	943	948	932	919	917	924	937	932	939	925	924	937
27	930	948	936	935	933	937	933	933	926	918	915	928	932	938	936	928	928
28	942	941	943	944	942	948	943	931	933	958	968	972	970	970	975	973	966
29	905	918	898	897	899	905	913	910	910	910	909	914	922	925	929	924	924
30	926	926	923	922	923	923	920	913	905	903	917	932	945	951	949	946	935
31	932	932	932	934	933	935	929	921	919	914	919	938	949	958	960	956	952
Mean	947.1	949.2	947.8	948.1	947.3	948.5	945.0	934.5	926.2	925.6	933.2	947.5	958.4	964.0	962.9	957.2	952.2

Day	18	19	20	21	22	23	24	Mean	Maximum	h m	Minimum	h m	Range	Remarks a. m.	Remarks p. m.
1	942	934	928	923	936	937	643	945.6	978	13.30	916	10.00	62	S'	A
2	946	945	944	945	948	948	947	947.2	968	14.00	916	9.25	52	C	C
3	950	946	944	945	948	948	950	947.9	971	14.00	914	10.00	57	C	C
4	965	960	954	952	956	954	954	954.9	980	14-15	924	10.00	56	C	C
5	957	951	955	954	955	956	960	959.9	985	15.00	935	10.00	50	C	A
6	943	937	895	883	877	911	924	936.3	964	14.00	**877**	22.00	87	A	S'
7	930	929	931	928	934	937	935	935.2	964	15.00	911	9.00	53	C	S'
8	952	952	950	950	955	955	954	952.9	**991**	14.00	911	9.20	80	A	A
9	955	953	954	951	954	955	955	950.3	967	14.00	919	9.00	48	C	A
10	955	953	953	952	944	955	951	951.8	979	14.00	920	9.00	59	C	A
11	963	993	962	961	961	960	956	956.7	976	15.00	930	10.00	46	C	C
12	962	958	960	953	960	961	957	960.7	986	14.00	940	10.00	46	C	C
13	975	972	971	966	964	949	938	961.0	985	14.00	929	10.00	56	C	A
14	952	951	949	947	952	956	950	949.6	960	15.00	937	11.00	23	C	A
15	958	957	959	957	958	959	959	952.6	973	14.00	920	10.00	53	A	C
16	960	961	965	966	966	966	962	959.7	975	15.00	931	10.00	44	C	C
17	952	947	944	642	945	948	953	948.4	961	3.00	926	11.00	35	C	C
18	963	963	959	951	953	950	953	951.8	974	15.00	923	10.00	51	A	A
19	960	959	961	957	956	600	959	954.4	965	14-15	930	10-11	35	C	C
20	963	961	955	953	958	959	959	953.4	964	15.00	929	10.00	35	C	A
21	945	945	945	947	946	947	947	949.5	963	1.2	933	10.00	30	C	C
22	940	939	937	937	938	940	942	936.8	956	1.30	918	10.00	38	C	C
23	937	938	935	933	937	939	940	939.3	952	14.00	926	10.00	26	C	C
24	946	943	939	935	936	946	943	942.8	960	14.00	930	9.00	30	C	C
25	944	640	936	935	936	938	938	944.1	961	13.00	931	20.50	30	C	C
26	938	936	935	931	932	931	930	933.9	948	7.00	917	10.00	31	C	C
27	928	928	931	934	935	940	942	932.2	948	2.00	911	10.45	37	C	C
28	962	954	952	941	918	896	907	947.9	975	15.00	894	23.10	81	C	A
29	927	625	924	925	922	924	924	915.8	927	18.00	897	4.00	30	S'	C
30	930	937	930	926	929	928	928	927.8	951	14.00	903	10.00	48	C	C
31	948	948	945	946	945	947	946	939.1	960	15.00	914	10.00	46	C	C
Mean	949.9	947.9	945.2	942.8	943.7	945.2	945.4	946.4	966.7		919.7		46.9		

HORIZONTAL INTENSITY: 0.29 . . . C.G.S.

NOVEMBER, 1905.

Day \ Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	934	932	933	934	935	936	929	920	908	905	914	928	935	942	941	938	938
2	936	935	933	933	931	935	931	925	914	914	916	926	933	939	939	937	935
3	927	926	924	925	932	936	933	922	913	910	916	928	936	940	939	938	934
4	927	929	928	929	929	930	929	924	916	912	923	936	930	926	925	927	924
5	918	927	928	931	929	922	938	923	915	908	912	914	914	916	910	904	898
6	927	924	923	933	925	930	924	911	905	896	909	922	930	927	923	919	915
7	917	913	920	922	920	925	922	917	900	902	913	938	938	934	944	929	923
8	920	921	919	919	925	930	926	919	909	903	911	917	916	918	921	917	919
9	924	923	924	926	930	933	931	923	921	920	919	932	937	937	935	...	...
10	932	927	923	921	921	923	925	922	918	915	918	936	939	930	924	921	917
11	926	926	927	930	931	934	933	928	928	928	924	930	936	940	939	934	928
12	930	934	930	933	935	939	935	934	932	922	927	928	920	921	920	910	896
13	...	845	931	828	876	863	862	857	848	852	858	864	873	885	900	882	873
14	873	873	974	883	878	885	896	890	891	885	882	...	...	...	...	...	...
15	893	900	903	914	923	930	922	913	893	874	874	877	879	895	914	915	915
16	951	943	916	878	...	...	...	...	...	...	...	849	833	854	856	845	808
17	873	873	855	858	871	874	890	884	887	887	897	904	901	904	904	904	895
18	911	902	897	900	892	904	904	901	904	890	894	908	902	905	910	912	903
19	899	893	894	895	896	898	904	901	896	889	877	901	905	912	915	907	903
20	901	901	905	908	898	900	905	907	909	902	895	902	911	925	928	921	918
21	908	911	912	913	916	927	933	937	937	944	946	952	948	952	961	953	934
22	922	924	926	828	929	934	941	943	941	939	941	944	945	941	938	928	914
23	930	927	929	928	933	935	938	941	933	924	924	932	931	929	923	922	920
24	917	911	915	920	918	926	933	941	938	936	935	938	937	938	942	942	936
25	928	939	931	929	937	938	929	954	959	958	956	955	...	...	...	...	...
26	949	946	945	947	949	953	960	962	960	960	964	965	969	962	957	949	949
27	943	945	948	940	936	941	944	942	938	942	943	951	950	945	941	941	936
28	940	939	933	940	942	943	967	949	949	946	948	955	955	948	947	947	939
29	962	956	954	950	950	954	959	964	963	955	950	962	967	972	975	972	968
30	966	965	967	965	969	969	968	961	960	962	967	970	976	977	980	974	968
Mean	924.3	923.6	922.8	924.6	925.4	929.1	930.9	927.6	922.6	918.6	921.1	930.6	932.1	933.6	934.0	930.4	925.0

Day	18	19	20	21	22	23	24	Mean	Maximum	h m	Minimum	h m	Range	Remarks a. m.	Remarks p. m.
1	937	935	934	936	936	935	935	931.2	942	14.00	905	10.00	37	C	C
2	932	932	930	929	928	927	927	929.9	939	14-15	914	9-10	25	C	C
3	933	933	929	929	929	929	928	928.7	940	14.00	910	10.00	30	C	C
4	923	923	931	928	927	923	935	926.4	936	12.00	912	10.00	24	C	C
5	898	908	911	914	916	931	927	917.2	938	7.00	894	17.25	44	A	C
6	914	914	914	913	915	906	914	917.6	933	4.00	896	10.00	37	C	A
7	917	922	920	916	921	918	924	921.0	938	12-13	900	9.00	38	C	C
8	917	919	920	921	923	921	922	918.9	930	6.00	903	10.00	27	C	C
9	...	...	925	924	922	924	926	...	937	13-14	919	11.00	18	C	C
10	917	918	907	916	919	927	928	922.7	941	13.30	907	20.00	34	C	A
11	928	930	927	925	926	928	928	929.7	940	14.00	924	11.00	16	C	C
12	893	869	845	859	833	832	836	904.8	939	6.00	832	23.00	107	C	S
13	881	868	845	881	873	910	891	...	910	23.00	822	3.20	88	S	S'
14	...	...	...	...	...	...	897	...	...		...		...	S'	
15	916	917	915	914	913	923	917	906.2	932	6.30	874	10,11	58	S'	A
16	792	801	805	809	819	867	833	...			...	3.00	...	S	S
17	893	896	888	901	899	897	907	889.2	907	24.00	855	3.00	52	S'	S'
18	897	891	891	895	897	890	891	899.6	912	16.00	890	10,23	22	A	A
19	904	899	898	896	904	901	902	899.5	915	15.00	877	11.00	38	A	C
20	911	902	895	897	902	902	902	906.1	928	15.00	891	20.20	37	C	C
21	912	909	908	916	913	909	915	927.7	961	15.00	902	0.10	59	C	C
22	916	908	904	906	917	914	920	927.6	945	13.00	904	20.00	41	C	C
23	917	919	914	911	905	911	906	924.2	941	8.00	901	21.45	40	C	C
24	933	930	927	925	931	928	928	930.2	942	15-16	911	2.00	31	C	C
25	942	944	946	943	942	944	942	...			...		...	C	C
26	949	947	947	946	947	946	940	952.8	969	13.00	940	24.00	29	C	C
27	934	935	940	943	943	948	955	942.7	955	24.00	932	18.30	23	C	C
28	936	947	947	943	949	947	946	945.1	955	12-13	933	3.00	22	C	C
29	967	970	964	970	969	967	963	962.7	975	15.00	950	4.3, 11.00	25	C	C
30	964	944	966	964	964	964	964	967.2	**980**	15.00	960	9.00	20	C	C
Mean	922.3	921.5	918.9	920.5	921.0	921.0	923.4	925.2	941.3		904.7		36.6		

HORIZONTAL INTENSITY: 0.29 . . . C.G.S.

DECEMBER, 1905.

Day \ Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	968	967	962	966	972	971	971	968	962	958	961	969	973	979	987	982	976
2	974	976	978	976	978	978	979	971	965	965	959	969	978	985	991	998	992
3	978	979	976	978	977	974	981	981	975	968	963	972	971	973	977	982	978
4	988	972	978	982	987	987	987	984	971	962	973	987	989	997	984	988	997
5	964	950	952	950	956	965	972	973	974	968	965	973	964	963	964	967	964
6	978	978	978	980	980	981	988	985	976	968	963	971	978	977	978	985	983
7	976	978	972	974	972	973	982	979	971	968	962	969	971	977	978	981	980
8	977	977	976	976	974	976	978	979	977	975	975	985	988	989	989	994	991
9	977	979	976	973	978	977	976	973	963	960	971	975	987	994	993	989	986
10	984	984	987	987	985	985	987	987	986	985	988	992	996	1001	1005	999	993
11	990	988	987	988	987	985	991	990	984	980	980	986	989	992	994	994	991
12	983	981	982	983	985	986	990	990	992	983	985	1017	1024	1022	1020	1014	1008
13	981	984	974	986	980	981	984	988	986	981	982	954	946	936	932	927	918
14	967	960	956	958	962	955	962	969	968	969	968	968	964	967	966	964	956
15	964	967	964	963	965	963	968	970	965	962	959	961	958	961	975	962	961
16	968	959	959	961	963	966	968	974	965	962	956	957	953	959	964	965	963
17	960	958	962	963	965	965	970	973	973	971	969	972	969	966	965	965	959
18	951	953	957	960	962	962	966	963	962	957	953	958	960	962	964	661	651
19	957	952	959	955	959	963	963	966	965	961	953	951	956	958	961	961	957
20	952	954	952	955	962	961	963	964	959	950	947	953	954	961	968	959	942
21	945	937	939	943	949	943	952	954	955	944	946	949	952	951	952	953	953
22	958	957	958	959	961	960	961	959	953	946	940	949	952	960	966	964	959
23	961	961	960	962	964	966	962	960	964	953	947	955	953	956	959	960	959
24	956	956	955		958	959	958	960	959	953	951	957	958	967	971	671	966
25	959	959	957	955	955	953	957	963	967	964	964	974	981	987	992	991	990
26	962	957	952	961	959	961	959	960	953	949	944	955	966	968	975	970	966
27	966	967	965	968	964	963	965	969	966	658	956	956	959	963	967	970	667
28	973	971	971	971	970	968	969	970	964	951	955	972	979	978	979	982	980
29	980	980	974	975	971	967	975	972	964	957	951	963	969	970	974	979	974
30	959	959	962	965	966	...	967	966	965	960	965	960	965	974	975	972	973
31	966	967	967	964	966	963	960	964	960	950	948	953	960	969	978	978	963
Mean	969.2	967.3	966.6	967.9	969.2	968.5	971.9	972.3	968.4	962.9	961.5	967.8	970.3	973.1	975.8	975.3	970.9

Day	18	19	20	21	22	23	24	Mean	Maximum	h m	Minimum	h m	Range	Remarks a. m.	Remarks p. m.
1	972	970	969	970	472	970	972	970.3	987	15.00	958	10.00	29	C	C
2	980	980	981	983	985	982	978	978.4	998	16.00	959	11.00	39	C	C
3	974	973	973	986	986	983	979	976.5	986	21-22	963	11.00	23	C	C
4	977	982	962	959	947	938	947	976.0	1010	18.25	938	23.00	72	A	S'
5	972	969	971	969	969	971	970	965.6	974	9.00	950	2.4	21	A	S'
6	980	981	981	980	980	979	978	978.6	988	7.00	963	11.00	25	A	C
7	979	979	979	979	979	976	977	975.5	982	7.00	962	11.00	20	C	C
8	988	985	986	987	985	985	973	981.9	994	16.00	973	24.00	21	C	C
9	984	981	982	980	987	986	986	980.1	994	14.00	960	10.00	34	C	C
10	986	985	985	984	984	985	986	988.6	1005	15.00	984	12, 21-23	21	C	C
11	989	988	988	988	988	985	984	987.7	994	15-16	980	10-11	14	C	C
12	999	990	989	992	988	988	981	994.7	**1024**	13.00	981	2,21	43	C	A
13	923	921	941	949	954	955	958	959.2	988	8.00	**911**	17.10	77	A	S'
14	955	959	967	956	959	961	957	962.2	972	9.30	955	6,18	47	A	C
15	958	958	958	956	958	958	966	962.5	975	15.00	956	21.00	19	C	C
16	959	957	957	956	958	962	964	961.5	974	8.00	953	13.00	21	C	C
17	958	953	954	952	952	957	954	962.7	973	8-9	952	21-22	21	C	C
18	959	955	953	958	959	967	958	958.4	966	7.00	951	1.17, 12.00	15	C	C
19	959	952	951	951	957	957	954	957.4	966	8.00	954	20-21	15	C	C
20	939	927	940	943	946	956	957	952.7	968	15.00	927	19.00	41	C	S'
21	953	955	954	953	954	955	956	949.9	956	24.00	934	1.30	25	A	C
22	954	954	954	957	956	956	961	956.4	966	15.00	940	11.00	26	C	C
23	956	957	958	959	959	958	956	958.5	966	6.00	947	11.00	19	C	C
24	964	964	963	961	959	959	959		971	15-16	951	11.00	20	C	C
25	991	979	980	972	970	968	965	970.5	992	15.00	953	6.00	39	C	C
26	963	961	961	962	964	966	967	461.0	975	15.00	944	11.00	31	C	C
27	964	965	968	970	971	973	973	965.5	973	23-24	956	11-12	17	C	C
28	980	979	977	977	980	972	980	972.4	982	16.00	949	10.20	34	C	C
29	972	971	971	969	967	967	965	969.8	980	1-2	949	10.40	31	C	C
30	968	958	949	951	953	959	963	...	975	15.00	949	20.00	26	C	C
31	970	969	967	967	966	963	962	964.2	978	15-16	948	11.00	30	C	C
Mean	968.7	966.8	967.5	968.0	967.9	967.9	967.7	968.9	982.3		953.2		29.0		

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Day \ Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	380	377	377	375	369	366	363	362	365	364	360	366	373	375	384	385	383
2	376	373	371	369	367	365	365	360	354	351	350	369	375	384	393	397	396
3	378	376	376	374	371	369	367	366	365	361	361	364	375	379	388	393	395
4	393	392	391	391	391	389	389	387	386	387	387	380	386	401	403	410	409
5	409	...	...	...	...	...	402	397	400	400	379	393	399	401	406	413	417
6	411	410	406	403	406	406	394	394	390	381	388	390	394	394	398	404	405
7	410	414	411	411	409	409	408	406	401	397	398	406	414	420	425	427	427
8	419	419	412	411	408	407	405	402	399	399	401	411	413	415	417	418	417
9	403	...	...	...	...	...	393	390	387	381	383	401	407	411	414	410	410
10	403	400	400	398	395	392	391	389	385	372	365	372	371	391	389	390	393
11	397	396	395	393	392	389	381	379	374	365	372	381	392	394	396	395	393
12	392	391	383	381	377	374	374	373	368	363	360	370	381	386	389	395	394
13	380	376	376	372	366	362	361	359	350	339	343	355	361	363	375	385	379
14	384	385	385	384	381	384	384	375	384	376	370	373	382	393	403	405	408
15	392	392	389	388	387	386	386	383	380	371	365	371	387	398	406	411	413
16	391	389	387	388	386	383	381	376	369	361	360	378	380	388	396	397	402
17	387	384	383	379	374	371	368	364	357	345	343	356	369	389	402	405	411
18	402	399	387	387	382	383	383	379	377	374	375	385	396	401	410	415	415
19	418	419	420	418	416	417	415	413	409	402	400	409	413	412	416	418	419
20	417	417	414	417	414	418	416	413	410	407	405	404	412	413	418	424	428
21	423	422	421	419	417	418	415	412	406	395	391	398	412	414	422	425	428
22	423	421	421	418	420	417	416	417	412	405	398	401	401	402	406	408	409
23	417	424	414	411	410	411	406	403	394	388	392	417	424	429	436	436	441
24	432	431	429	428	423	423	423	420	409	395	392	386	399	409	420	421	423
25	411	413	411	410	409	414	409	403	390	376	372	379	381	389	398	402	403
26	380	372	364	361	360	357	348	342	332	326	336	341	353	364	372	376	374
27	375	371	368	366	366	363	362	358	350	340	345	361	381	400	411	413	410
28	417	417	417	420	414	413	410	407	400	389	385	397	410	416	416	416	410
29	407	410	409	411	407	403	400	399	394	388	391	394	402	413	422	421	407
30	409	409	410	406	397	393	390	386	375	370	372	401	409	414	415	415	408
31	398	399	395	392	389	386	384	378	369	366	380	379	379	381	386	388	387
Mean	400.8	399.9	397.3	395.9	393.3	392.0	389.4	386.4	381.2	374.2	374.4	382.6	390.5	397.5	403.9	406.8	406.4

Day	18	19	20	21	22	23	24	Mean	Maximum	Maximum h m	Minimum	Minimum h m	Range	Remarks a. m.	Remarks p. m.
1	381	378	371	375	376	380	378	373.5	387	15.32	360	11.00	27	C	C
2	393	392	390	389	387	385	380	376.3	397	16.00	350	11.00	47	C	C
3	395	393	393	393	393	394	393	379.7	395	17-18	359	11.12	36	C	C
4	406	405	409	408	403	406	407	396.5	410	16.00	377	12.28	33	C	C
5	417	417	418	416	418	415	415	...	418	20.22	379	11.00	39		C
6	404	406	407	407	411	410	408	401.1	417	5.30	381	10.00	36	S²	C
7	429	425	424	420	421	418	419	411.5	429	18.00	396	10.29	33	C	C
8	417	414	413	412	411	409	405	410.6	419	1-2	399	9-10	20	C	C
9	407	409	407	408	407	406	405		414	15.00	381	10.00	33	C	C
10	395	397	397	396	399	399	398	390.7	403	1.00	365	11.00	38	C	C
11	397	399	397	397	399	397	402	390.5	402	24.00	363	10.22	39	C	C
12	394	394	392	392	389	384	382	382.4	395	16.00	360	11.00	35	C	C
13	383	382	383	383	381	382	380	369.8	385	16.00	339	10.00	46	C	C
14	403	402	396	399	399	396	392	389.4	408	17.00	370	11.00	38	C	C
15	410	406	404	405	399	395	394	392.4	413	17.00	365	11.00	48	C	C
16	400	398	398	397	394	391	387	386.5	402	17.00	360	11.00	42	C	C
17	411	408	399	405	407	402	398	384.0	411	17-18	343	11.00	68	C	C
18	412	414	416	417	418	419	419	397.5	419	23-24	372	10.26	47	C	C
19	422	421	421	421	421	419	417	415.7	422	18.00	400	11.00	22	C	C
20	432	430	428	430	429	427	424	418.6	432	16,21,30	404	12.00	28	C	C
21	429	429	432	431	428	426	424	418.2	432	20.00	391	11.00	41	C	C
22	406	409	406	407	413	412	410	410.7	424	1.23	398	11.00	26	C	C
23	441	441	442	441	438	436	434	421.9	**442**	20.00	388	10.00	54	C	C
24	419	417	411	409	415	414	413	415.1	432	1.00	385	11.46	47	C	C
25	397	390	390	390	386	383	477	395.1	414	6.00	372	11.00	42	C	C
26	373	373	372	371	376	375	374	361.3	383	1.10	**326**	10.00	57	C	C
27	408	412	412	412	413	412	412	384.2	415	15.32	340	10.00	73	C	C
28	411	410	413	412	415	413	409	409.9	420	4.00	385	11.00	35	C	C
29	417	419	417	414	415	412	409	407.5	422	15.00	388	10.00	34	C	C
30	407	406	405	406	407	403	400	400.5	415	15-16	370	10.00	45	C	C
31	386	386	383	380	378	387	374	381.7	399	2.00	366	10.00	33	C	A
Mean	406.1	405.4	404.2	404.1	404.2	403.0	400.7	395.8	411.9		371.5		40.3		

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Day \ Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	375	376	374	370	367	371	364	361	351	334	333	349	357	365	376	375	373
2	367	366	364	363	361	361	363	363	353	343	339	348	341	350	362	365	364
3	361	360	358	355	354	354	353	347	337	317	328	345	356	359	346	354	359
4	364	358	368	355	359	374	346	338	337	324	325	335	350	347	359	363	369
5	383	379	380	380	371	370	368	359	344	337	340	349	364	376	384	394	395
6	399	406	408	394	393	395	393	388	379	361	362	386	391	395	401	409	406
7	381	375	371	369	366	363	354	347	346	321	318	333	352	364	374	382	384
8	371	369	368	369	363	355	354	349	335	322	325	344	355	367	380	386	391
9	374	371	366	364	357	354	350	343	330	322	317	331	342	355	369	375	373
10	352	349	347	346	347	343	340	337	329	319	316	331	345	355	373	380	383
11	378	374	373	372	370	375	373	368	357	341	344	360	370	379	395	402	408
12	400	397	396	393	394	391	393	391	384	369	366	380	391	406	407	414	421
13	407	404	406	399	399	398	397	391	381	369	371	386	396	402	408	415	...
14	413	408	406	403	401	399	399	394	381	365	365	377	391	403	414	418	421
15	417	408	403	403	399	393	392	389	380	373	369	377	391	408	409	419	422
16	423	420	418	416	413	409	400	402	396	390	393	390	385	385	399	413	...
17	409	408	405	399	391	383	387	382	376	372	372	388	385	390	397	402	402
18	378	369	364	363	357	355	353	347	339	335	333	348	355	361	366	370	373
19	353	348	345	340	339	338	337	334	328	323	316	323	327	342	349	360	364
20	372	372	370	368	366	364	362	359	349	340	336	347	351	356	366	373	377
21	369	366	363	361	360	359	361	356	348	332	333	347	362	371	381	389	391
22	364	366	365	366	363	361	364	360	351	346	347	...	...	361	368	371	374
23	371	371	372	368	365	367	362	357	347	292	303	322	345	365	376	379	374
24	376	375	371	371	365	360	357	354	346	336	333	336	357	366	395	399	400
25	407	403	402	398	366	392	392	391	385	380	377	385	392	395	402	409	411
26	402	399	398	395	394	392	390	388	383	376	370	372	378	385	391	394	391
27	391	388	383	387	385	383	381	380	374	377	356	368	369	372	377	376	379
28	394	401	401	400	401	399	402	403	401	390	380	387	393	393	405	410	414
Mean	382.3	379.8	378.2	375.4	371.6	371.6	369.0	365.0	356.8	344.0	342.2	354.7	364.5	373.0	382.2	387.9	389.8

Day	18	19	20	21	22	23	24	Mean	Maximum	Maximum h m	Minimum	Minimum h m	Range	Remarks a. m.	Remarks p. m.
1	371	372	371	371	370	370	369	365.2	376	2.15	333	11.00	43	A	C
2	365	365	365	364	363	364	360	359.1	367	1.00	336	10.50	31	C	C
3	359	338	346	342	344	362	365	350.0	375	23.12	317	10.00	58	C	S²
4	373	374	373	372	367	371	375	357.3	375	24.00	324	10.00	51	S	A
5	405	405	404	405	404	412	393	379.2	412	23.00	334	10.29	78	A	A
6	404	401	397	395	392	386	384	392.7	409	16.00	361	10.00	48	C	C
7	382	383	383	380	381	379	377	365.2	384	17.00	318	11.00	66	C	C
8	391	392	390	388	384	379	376	366.8	392	19.00	316	10.35	76	C	C
9	372	370	369	367	361	357	353	355.9	375	16.00	317	11.00	58	C	C
10	383	383	383	380	377	376	378	356.3	384	16.32	316	11.00	68	C	C
11	413	412	411	409	407	405	404	383.3	413	18.00	341	10.00	72	C	C
12	422	420	420	419	412	409	408	400.1	422	18.00	366	11.00	56	C	C
13	...	422	421	422	420	417	415	...	422	19-21	369	10.00	53	C	C
14	417	416	417	415	410	414	409	402.2	421	17.00	365	10-11	56	C	C
15	423	423	424	424	426	424	423	405.1	**426**	22.00	366	11.12	60	C	C
16	...	415	418	417	419	410	406	...	423	1.00	385	13-14	38	C	C
17	400	396	391	397	388	385	378	391.0	409	1.00	372	10-11	37	C	C
18	378	377	370	368	361	353	350	359.3	378	1.18	333	11.00	45	C	C
19	368	370	369	368	367	369	368	347.7	370	19.00	316	11.00	54	C	C
20	378	378	378	379	377	374	371	365.1	379	21.00	336	11.00	43	C	C
21	388	381	383	380	379	373	368	366.7	391	17.00	329	10.30	62	C	C
22	376	376	377	374	372	371	369	...	377	20.00	346	10.00	31	C	C
23	375	376	390	389	383	379	379	362.8	395	20.20	**292**	10.00	103	C	C
24	400	404	406	408	409	407	408	376.6	409	22.00	327	11.20	82	C	C
25	408	406	406	402	408	402	401	396.7	411	17.00	377	11.00	34	C	C
26	389	391	392	393	395	395	392	380.4	402	1.00	370	11.00	32	C	C
27	379	383	385	380	391	392	383	380.7	393	24.00	356	11.00	37	C	C
28	413	411	412	409	408	410	409	401.9	414	17.00	380	11.00	34	C	C
Mean	390.2	389.1	389.4	388.4	386.6	385.9	383.6	375.1	395.3		339.9		55.3		

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Day \ Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	408	407	404	402	402	397	397	397	389	385	379	379	386	399	403	409	414
2	493	389	386	387	383	384	382	376	369	362	353	367	375	384	391	398	399
3	403	407	411	398	392	394	391	392	389	375	371	373	376	385	388	401	400
4	413	414	410	410	411	408	410	401	397	381	372	380	385	391	407	409	410
5	406	402	404	401	403	403	395	390	379	368	364	377	390	404	410	411	410
6	396	387	387	382	383	378	378	370	359	355	345	373	377	389	407	416	419
7	413	413	406	406	404	398	394	385	371	360	353	380	370	383	401	410	410
8	414	409	406	403	402	398	398	392	383	378	383	397	404	407	419	413	417
9	432	431	426	424	425	423	428	423	413	407	407	415	419	424	425	431	431
10	434	433	435	446	423	420	417	406	394	389	395	411	420	423	429	431	433
11	437	436	434	430	430	422	421	419	411	398	395	401	409	414	421	427	431
12	434	434	435	436	437	438	439	437	432	428	430	428	433	440	443	433	435
13	443	439	435	435	433	433	435	427	420	406	393	411	412	415	423	424	422
14	426	424	421	421	426	425	428	428	424	420	413	433	442	444	454	454	451
15	448	445	447	444	445	446	445	440	436	419	421	420	428	431	434	442	443
16	441	442	433	434	433	431	440	434	436	427	422	423	430	436	441	432	429
17	429	431	428	427	424	420	417	410	404	396	396	400	408	416	421	423	424
18	419	418	416	418	416	410	408	406	398	392	394	406	417	422	421	424	424
19	432	429	430	431	429	430	426	423	413	405	414	432	439	448	453	443	445
20	444	441	438	441	439	438	434	428	418	417	420	440	448	453	456	456	453
21	442	443	438	438	434	434	427	422	409	405	401	402	406	413	414	414	413
22	408	407	404	403	403	403	402	397	390	380	381	396		425	435	439	442
23	434	433	432	434	432	432	431	424	415	400	401	419	428	436	442	443	444
24	444	445	446	448	447	445	445	439	425	401	398	408	417	427	435	442	444
25	449	451	451	451	455	456	457	452	440	422	421	432	438	450	455	457	453
26	459	459	456	455	456	458	461	459	450	436	425	427	441	446	419	452	454
27	458	453	454	454	453	451	450	445	433	419	416	423	426	431	436	433	443
28	426	421	417	418	414	414	415	409	405	395	396	392	407	417	423	424	425
29	422	419	417	416	416	415	411	405	393	388	397	409	428	441	450	442	439
30	432	434	432	432	431	434	430	427	415	403	411	424	426	424	428	423	412
31	418	423	422	422	425	426	428	419	402	392	393	398	402	400	412	417	413
Mean	428.3	427.1	425.2	424.1	423.4	422.0	421.3	416.3	407.4	397.6	396.0	406.0	412.9	420.1	426.4	427.8	428.3

Day	18	19	20	21	22	23	24	Mean	Maximum	h m	Minimum	h m	Range	Remarks a. m.	Remarks p. m.
1	411	411	409	408	406	400	395	399.9	414	17.00	379	11-12	35	C	C
2	394	405	407	409	406	424	374	387.4	435	22.40	353	11.00	82	C	C
3	407	410	410	414	413	412	413	397.2	414	21.00	367	10.42	43	S	C
4	407	409	407	409	404	411	401	402.5	414	2.00	372	11.00	42	C	C
5	408	407	403	406	410	402	407	398.3	411	} 10.00 / 23.30	364	11.00	47	C	C
6	416	416	417	418	418	418	413	392.4	419	17.00	**345**	11.00	74	C	C
7	409	411	417	417	422	414	417	398.5	422	22.00	353	11.00	69	O	A
8	419	425	431	429	430	430	431	409.1	431	20,24	376	10.28	55	C	C
9	430	431	434	434	436	440	433	425.9	441	23.3	407	10-11	34	C	C
10	435	439	440	441	440	441	441	424.8	441	} 21.00 / 23-24	389	10.00	52	C	C
11	435	436	436	437	436	433	433	424.2	437	1,21	395	11.00	42	C	C
12	441	443	442	440	447	449	444	437.4	449	23.00	428	10,12	21	C	C
13	422	425	431	428	429	427	427	421.8	443	1.00	393	11.00	50	C	C
14	453	452	451	451	451	451	452	437.3	458	15.32	413	11.00	45	C	C
15	439	438	437	440	441	438	440	437.8	448	1.00	419	10.00	29	C	C
16	430	427	431	428	426	427	434	432.0	442	2.00	422	10.00	20	C	C
17	425	427	424	419	419	420	416	417.7	431	2.00	396	10-11	35	C	C
18	427	428	429	429	430	430	430	417.2	430	22-24	392	10.00	38	C	C
19	444	444	446	446	450	447	443	435.1	457	14.34	404	10.20	53	C	C
20	446	450	451	451	446	446	444	441.6	456	15-16	417	10.00	39	C	C
21	412	413	415	417	414	414	412	418.8	443	2.00	401	11.00	42	C	C
22	445	448	445	442	440	439	436	...	448	19.00	380	10.00	68	O	C
23	442	442	443	443	443	447	443	432.6	447	23.00	400	10.00	47	C	C
24	443	446	449	449	449	449	449	437.1	449	20-24	398	11.00	51	C	C
25	456	458	458	459	459	460	460	450.0	460	23-24	421	11.00	39	C	C
26	451	461	457	462	462	459	456	452.1	**465**	22.30	425	11.00	40	C	C
27	443	441	440	437	438	439	436	439.7	458	1.00	416	11.00	42	C	C
28	425	427	433	432	435	435	430	418.1	435	22-23	388	11.35	47	C	C
29	433	433	434	439	439	437	440	423.5	450	15.00	385	10.30	65	C	C
30	411	413	416	417	417	416	416	421.8	434	2,6	403	10.00	31	C	C
31	410	413	411	411	411	411	409	412.4	430	6.30	392	10.00	38	C	C
Mean	427.5	429.4	430.3	430.7	430.9	430.9	428.0	421.6	438.8		393.9		44.9		

VERTICAL INTENSITY: 0.34 . . . C.G.S.

APRIL, 1905.

Day \ Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	404	406	407	405	406	408	409	405	394	389	387	419	419	404	391	386	391
2	387	392	409	406	401	405	406	406	403	397	393	396	395	400	404	409	409
3	403	403	406	394	398	401	399	394	389	382	382	380	380	379	382	391	392
4	378	378	379	377	379	377	374	372	363	363	369	372	381	386	392	391	389
5	389	389	388	385	381	386	387	381	372	358	357	357	367	375	378	381	381
6	381	380	377	380	378	380	381	381	376	367	366	377	382	385	386	386	389
7	380	377	375	376	378	375	371	374	369	368	375	387	390	396	390	396	398
8	396	398	397	399	396	396	392	392	383	371	377	375	385	387	388	388	392
9	384	384	382	383	380	...	...		372	365	367	376	384	388	386	387	387
10	393	391	396	393	390	392	389	389	381	371	369	389	390	393	393	389	389
11	388	390	390	390	389	392	391	386	376	363	370	374	385	386	381	384	382
12	390	389	391	389	388	386	386	394	389	388	387	380	384	389	388	389	382
13	391	390	390	390	397	398	395	395	392	381	384	390	390	389	387	394	394
14	410	411	411	410	411	404	402	401	395	391	386	387	391	391	389	390	387
15	398	400	397	396	393	390	390	391	386	383	383	374	384	393	394	390	387
16	404	404	404	406	406	402	399	396	391	386	381	384	387	387	394	396	396
17	407	402	405	405	405	406	406	402	392	387	389	401	398	398	399	399	398
18	409	410	407	405	408	405	403	400	397	374	403	404	409	414	416	416	414
19	414	410	411	410	413	410	401	398	390	383	386	400	407	414	419	421	425
20	435	435	436	436	435	429	428	427	426	427	431	436	440	433	441	434	427
21	425	429	427	423	425	422	418	409	392	388	383	396	385	384	390	406	406
22	410	417	422	417	416	415	409	400	391	387	394	404	407	403	402	404	404
23	410	414	414	413	416	421	417	413	408	405	407	417	420	422	409	414	415
24	420	417	414	416	414	413	413	408	401	403	411	426	425	423	421	422	421
25	429	428	426	426	429	427	426	420	410	403	403	415	420	419	418	418	416
26	430	438	431	432	429	426	421	423	408	402	405	420	415	411	421	420	422
27	434	435	436	437	438	437	432	429	418	414	419	424	432	434	442	436	431
28	439	444	441	445	445	445	445	439	435	432	427	435	437	446	446	444	439
29	443	443	438	440	435	440	439	435	419	414	420	434	436	447	447	444	444
30	452	448	448	458	453	451	453	451	442	433	436	441	444	443	441	440	438
Mean	408.6	408.9	409.4	408.9	408.8	408.8	406.9	403.8	396.1	390.8	392.7	399.9	403.0	404.5	405.0	406.1	405.4

Day	18	19	20	21	22	23	24	Mean	Maximum	h m	Minimum	h m	Range	Remarks a. m.	Remarks p. m.
1	399	402	396	411	414	424	396	403.0	424	23.00	370	10.30	54	C	S°
2	410	411	412	415	416	415	409	404.4	420	21.40	377	0.50	43	S°	A
3	389	388	386	389	386	384	385	390.1	406	3.00	379	14.00	27	C	C
4	389	392	394	373	394	394	394	382.1	395	19.40	363	9-10	32	C	C
5	381	383	386	387	388	388	386	379.7	389	1-2	**357**	11-12	32	C	C
6	388	389	391	396	389	389	384	382.4	396	21.00	366	11.00	30	C	C
7	401	404	404	405	405	403	403	387.6	405	21-22	368	10.00	37	C	C
8	394	395	393	395	394	390	389	390.1	399	4.00	371	10.00	28	C	C
9	390	390	390	391	393	392	397		397	24.00	365	10.00	32	C	C
10	383	386	386	388	388	388	384	387.3	396	3.00	369	11.00	27	C	C
11	381	384	385	388	385	383	387	383.7	392	6.00	365	10.25	27	C	C
12	385	388	386	385	385	387	385	388.0	396	6.00	382	17.00	14	C	C
13	394	397	400	398	398	406	405	393.5	406	23.00	379	10.25	27	C	C
14	387	388	388	390	389	393	394	396.1	414	5.20	387	17-18	27	C	C
15	389	394	395	396	394	398	398	391.4	400	2.00	374	12.00	26	C	C
16	401	401	404	406	400	401	403	397.5	406	} 4.5 / 21.00	381	11.00	25	C	C
17	400	399	405	404	402	401	405	400.7	407	1.00	387	10.00	20	C	C
18	416	417	414	415	413	409	409	408.5	417	19.00	394	10.00	23	C	C
19	430	431	430	430	429	428	428	413.4	431	19.00	383	10.00	48	C	C
20	427	430	427	428	428	425	422	431.0	443	14.32	422	24.00	21	C	C
21	400	403	410	408	404	416	405	406.4	429	2.00	380	11.15	49	C	C
22	407	409	413	413	409	409	408	407.1	422	3.00	387	10.00	35	C	C
23	407	410	413	416	415	414	412	413.5	426	6.28	405	10.00	21	C	C
24	420	420	423	423	424	426	426	418.0	426	} 1.00 / 22-24	401	9.00	25	C	C
25	416	419	422	422	424	423	423	420.1	429	4, 5	399	10.22	30	C	C
26	420	425	426	430	434	431	432	422.8	434	22.00	400	9.43	34	C	C
27	434	437	438	438	437	439	438	432.8	442	15.00	414	10.00	28	C	C
28	435	438	445	443	442	441	438	440.2	446	14-15	427	11.00	19	C	C
29	442	444	444	446	448	444	444	438.7	448	22.00	414	10.00	34	C	C
30	439	437	438	440	437	437	438	443.4	**458**	4.00	430	9.45	28	C	C
Mean	405.7	407.6	408.8	410.3	409.3	410.0	407.9	405.3	417.3		387.3		30.0		

VERTICAL INTENSITY: 0.34 . . . C.G.S. — MAY, 1905.

Day \ Hour	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	Maximum	h m	Minimum	h m	Range	Remarks a. m.	Remarks p. m.
1	443	442	440	441	441	431	432	417	392	400	405	427	410	417	425	425	421	421	423	426	426	425	425	423	424.1	**443**	1.00	387	9.15	56	C	C
2	429	424	419	416	421	424	410	394	377	374	373	390	380	380	379	387	375	379	374	372	375	376	371	373	390.1	429	1.00	370	18.00	59	C	C
3	374	376	381	383	391	385	392	387	379	371	375	386	389	395	...	410	410	402	399	402	404	410	414	413		414	23.00	371	10.00	43	C	C
4	411	411	412	414	412	413	409	402	398	390	387	398	402	408	407	409	407	409	411	418	414	414	407	409	407.2	419	20.30	387	11.00	32	C	C
5	406	408	405	407	412	416	414	413	407	405	409	418	431	431	429	428	424	421	422	424	426	426	425	425	418.0	435	13.35	402	2.45	33	C	C
6	420	418	418	419	423	420	419	410	406	400	399	402	403	407	407	406	405	401	404	406	406	409	409	406	409.3	423	5.00	399	11.00	24	C	C
7	403	402	401	405	404	407	400	391	390	387	381	396	406	411	409	406	402	400	402	406	406	406	404	401	401.1	412	14.28	381	11.00	31	C	C
8	397	401	402	400	404	407	407	402	394	390	387	410	408	412	413	410	405	409	404	409	411	412	410	414	404.9	414	24.00	387	11.00	27	C	C
9	412	410	411	413	409	411	417	409	404	393	386	392	403	405	412	413	412	409	414	416	419	418	418	419	409.4	419	21.24	386	11.00	33	C	C
10	414	415	413	413	416	418	414	408	396	389	394	404	411	414	417	414	414	412	420	420	420	421	423	423	412.6	423	23-24	389	10.00	34	C	C
11	418	418	419	417	418	416	410	405	403	405	403	402	405	410	411	414	404	398	397	401	403	404	404	404	407.9	419	3.00	396	18.42	23	C	C
12	399	400	401	402	404	407	404	400	396	394	389	366	359	365	361	361	351	347	341	351	354	357	361	356	376.1	407	6.00	341	19.00	66	C	C
13	359	359	360	361	365	368	361	355	342	346	347	361	361	348	341	334	326	320	320	325	319	322	329	339	344.5	368	6.00	319	21.00	49	C	C
14	340	340	356	354	361	357	355	342	330	335	340	351	360	350	344	332	325	320	322	328	332	336	335	339	340.7	364	5.23	320	18.00	44	C	C
15	341	344	346	349	351	345	334	330	330	330	332	344	341	339	334	331	315	310	311	319	321	319	324	325	331.9	351	5.00	310	18.00	41	C	C
16	326	330	331	336	340	334	303	282	279	282	288	304	301	304	305	305	305	305	313	318	318	326	329	334	312.4	340	5.00	**279**	9.00	61	C	C
17	337	341	345	346	348	340	321	306	293	279	294	311	311	314	310	307	302	303	304	305	306	305	303	303	313.9	348	5.00	**279**	10.00	69	C	C
18	307	307	309	310	314	310	300	294	288	289	291	303	305	306	306	310	310	309	310	311	313	316	316	318	306.3	318	24.00	285	9.20	33	C	C
19	318	318	317	321	323	319	312	303	297	294	298	311	310	310	308	314	318	313	308	310	311	312	310	311	311.1	323	5.00	289	10.20	34	C	C
20	318	312	315	317	321	320	320	317	311	306	312	315	318	322	324	324	318	318	318	317	315	316	321	321	317.3	324	15-16	306	10.00	18	C	C
21	326	329	329	331	333	336	334	329	321	321	321	325	330	333	335	333	330	330	330	331	332	330	331	330	329.6	336	6.00	321	9-11	15	O	C
22	337	334	333	331	335	337	335	328	326	324	324	342	339	342	345	346	338	337	334	340	337	335	336	333	335.3	348	15.30	324	10-11	24	C	C
23	336	336	335	335	338	341	343	339	336	330	332	336	331	326	329	334	337	335	335	328	332	335	341	343	335.1	343	7.24	324	14.20	19	C	C
24	346	344	344	344	347	349	349	345	341	335	333	339	341	342	341	341	341	342	341	347	349	347	345	337	342.9	349	6-7,21.00	333	11.00	16	C	C
25	346	342	344	343	343	343	343	346	346	353	354	363	362	362	354	354	352	354	352	350	352	351	349	346	349.9	365	11.32	340	1.00	25	C	C
26	352	350	352	355	357	357	358	357	357	356	356	356	353	351	353	357	364	360	360	357	361	359	361	360	356.6	364	17.00	350	2.00	14	C	C
27	360	361	354	358	358	361	361	359	358	353	357	368	362	366	360	358	355	353	356	355	355	352	354	360	358.1	368	12.00	352	22.00	16	C	C
28	357	357	359	362	363	354	348	342	341	344	343	355	352	352	357	355	349	348	347	348	349	349	353	352	351.5	363	5.00	341	9.00	22	C	C
29	356	349	352	353	358	361	359	357	350	353	352	373	369	371	367	376	371	367	362	361	366	365	362	361	361.3	376	16.00	345	1.50	31	C	C
30	363	355	358	362	361	360	352	346	340	332	335	347	346	350	351	356	351	350	350	353	353	350	347	351	350.8	363	1.00	329	10.20	34	C	C
31	352	355	358	359	361	358	349	328	331	334	334	334	342	346	349	354	353	352	352	350	352	353	352	359	348.6	362	5.18	328	8.00	34	C	C
Mean	367.4	367.1	367.7	369.1	371.4	370.7	365.8	358.5	352.7	350.8	351.9	361.4	361.7	363.1	362.8	363.1	359.3	357.4	357.9	360.1	361.1	361.5	361.8	362.5	361.9	377.2		344.3		33.9		

VERTICAL INTENSITY: 0.34 . . . C.G.S. — JUNE, 1905.

Day \ Hour	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	Maximum	h m	Minimum	h m	Range	Remarks a. m.	Remarks p. m.
1	359	357	359	358	364	364	354	348	342	339	342	364	367	368	366	359	359	360	359	358	358	355	354	354	357.0	368	11.00	339	10.00	29	C	C
2	353	354	357	356	363	363	360	353	341	342	348	359	356	350	350	359	356	357	353	354	352	353	355	357	354.3	363	5-6	342	10.00	21	C	C
3	363	359	360	360	359	356	348	347	341	335	311	351	354	353	356	356	359	361	356	356	353	357	357	353	353.8	363	1.00	335	10.00	28	C	C
4	358	359	363	364	366	367	362	357	355	345	349	351	347	358	357	355	355	358	355	360	360	360	356	357	357.2	367	6.00	345	10.00	22	C	C
5	361	359	365	368	372	374	368	361	358	354	362	359	365	360	364	362	362	356	362	362	365	369	374	368	363.7	374	6.23	352	10.10	22	C	C
6	371	368	374	375	377	374	371	370	367	357	359	362	364	365	360	360	362	362	362	365	370	370	365	362	366.3	377	5.00	357	10.00	20	C	C
7	364	365	366	364	367	375	372	368	363	361	368	373	374	371	372	369	372	371	374	376	374	371	372	368	369.6	376	20.00	360	9.50	16	C	C
8	368	370	371	366	367	364	363	365	363	359	370	373	371	369	365	366	365	365	366	368	369	370	369	368	367.1	**399**	11.30	363	7.9	36	C	C
9	367	367	367	366	369	368	364	357	357	354	366	362	353	355	363	370	368	365	368	367	367	368	368	363	364.1	370	16.00	353	13.00	17	C	C
10	363	356	367	367	371	364	359	360	364	366	370	376	373	370	360	345	370	370	356	343	350	362	376	380	364.9	380	24.00	334	19.45	46	A	C
11	378	373	372	372	369	366	365	363	360	360	360	351	355	357	357	359	364	366	367	370	371	375	372	371	365.5	378	1.00	351	12.00	27	C	C
12	368	367	369	367	370	369	367	362	362	366	366	370	366	365	366	366	369	369	369	372	373	374	373	373	368.2	374	22.00	361	8.30	13	C	C
13	375	377	378	378	379	376	374	369	369	371	373	376	368	369	366	373	375	378	373	372	370	373	371	370	373.0	379	5.00	365	14.47	14	C	C
14	373	376	373	372	377	370	364	361	356	356	351	360	359	357	359	359	354	359	361	362	360	356	356	356	362.0	377	5.00	351	11.00	26	C	C
15	353	353	354	354	359	352	344	335	332	341	340	350	357	362	351	352	351	360	347	352	351	349	351	349	350.0	369	13.32	332	9.00	37	C	C
16	356	357	355	357	365	356	346	339	342	348	360	362	359	359	359	356	350	359	357	356	358	359	360	362	355.7	366	5.27	330	8.23	36	C	C
17	362	362	363	365	365	362	351	338	335	335	333	345	355	356	357	356	358	360	357	362	364	363	362	364	355.4	365	4-5	333	11.00	32	C	C
18	361	364	364	364	369	369	365	358	352	346	353	358	363	361	364	364	363	366	362	364	366	361	358	361	361.5	369	5-6	346	10.00	23	C	C
19	359	362	360	364	369	366	365	362	353	352	352	356	357	364	368	370	368	371	368	369	372	375	375	376	364.7	376	24.00	351	9.32	25	C	C
20	376	374	376	373	379	376	368	362	357	353	353	355	356	359	359	363	365	371	371	374	374	375	373	372	367.2	379	5.00	353	10-11	26	C	C
21	369	372	371	371	372	370	371	365	358	353	354	361	...	357	356	355	354	358	356	358	356	356	353	353		372	2.5	349	10.50	23	C	C
22	353	353	353	355	361	353	336	326	336	340	346	350	340	339	336	345	342	346	350	356	360	359	358	350	347.6	361	5.00	325	8.12	36	C	C
23	351	348	347	342	350	346	337	325	316	332	338	348	346	346	337	342	347	350	350	344	347	363	365	363	345.0	365	23.00	316	9.00	49	C	C
24	357	361	360	349	351	344	337	330	333	338	341	333	330	338	342	343	343	338	341	342	339	342	344	343	342.5	365	2.28	330	8.13	35	C	C
25	336	337	339	340	346	344	344	338	328	325	322	324	323	327	328	336	338	341	339	342	346	345	345	347	336.7	347	24.00	322	11.00	25	C	C
26	341	341	342	340	346	340	338	336	328	321	317	336	333	335	336	344	345	346	341	342	344	345	346	347	338.7	347	24.00	313	10.33	34	C	C
27	345	342	344	346	349	341	332	321	317	319	326	346	341	336	334	337	334	333	332	334	336	336	334	334	335.4	349	5.00	317	9.00	32	C	C
28	330	331	333	337	343	337	332	326	319	319	327	330	333	330	332	341	338	341	335	339	341	344	341	341	334.2	345	22.20	319	9-10	26	C	C
29	333	336	338	340	345	343	337	329	323	315	312	294	296	297	295	...	...	...	...	...	...	...	...	...	...	...		294	12.00		C	C
30	...	301	300	303	307	304	297	279	274	264	269	278	286	292	295	297	295	297	300	306	311	312	312	312		312	22-24	**284**	10.00	48	C	C
Mean	359.3	359.0	360.4	360.0	363.8	360.6	355.0	349.5	346.3	345.7	349.4	354.8	354.3	354.8	354.2	356.6	356.7	358.5	356.7	357.8	358.9	360.3	360.4	359.6	356.4	368.4		340.6		27.3		

VERTICAL INTENSITY: 0.34 . . . C.G.S.

Hour / Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	301	302	304	307	309	309	307	300	295	284	278	279	284	301	309	309	308
2	310	309	311	312	315	316	312	302	292	288	293	304	299	307	310	313	313
3	313	315	316	318	317	319	314	306	299	291	293	310	312	306	309	308	306
4	314	312	311	313	...	317	307	297	287	285	295	300	291	297	300	308	300
5	310	307	...	...	...	320	310	295	277	261	261	274	283	291	300	305	298
6	313	320	316	319	319	320	317	298	283	287	259	267	305	317	313	317	318
7	...	339	329	329	335	337	327	320	...	323	318	318	329	329	331	329	333
8	339	339	341	340	338	338	334	329	326	317	315	310	334	338	343	341	335
9	346	344	344	341	343	345	345	340	331	327	322	331	334	344	346	345	343
10	347	345	349	347	348	351	349	339	332	340	344	347	348	358	358	359	353
11	353	355	355	357	358	358	357	354	347	340	345	353	354	360	365	365	365
12	365	367	367	368	368	366	364	360	359	359	362	363	358	356	354	361	359
13	377	375	374	375	376	373	370	368	363	364	365	367	372	376	377	381	378
14	388	383	382	381	378	373	370	367	373	374	377	383	388	394	392	389	385
15	398	393	392	392	394	394	386	383	384	376	382	388	391	398	402	402	396
16	401	399	399	398	398	394	388	383	383	385	390	397	404	407	412	405	401
17	409	407	409	410	408	405	410	394	390	393	402	410	407	406	408	409	407
18	401	400	399	401	402	401	395	390	392	393	397	404	406	403	405	407	406
19	404	403	402	401	401	399	393	381	382	387	390	394	391	389	392	393	393
20	391	392	390	389	389	389	384	378	377	375	386	391	384	385	389	393	392
21	385	384	380	380	381	381	372	365	368	372	380	382	384	386	389	389	389
22	386	384	382	382	382	383	381	376	374	375	376	375	378	380	383	386	389
23	377	375	374	375	372	369	365	362	363	368	373	376	380	380	381	382	383
24	381	375	371	373	369	372	363	362	363	364	362	376	373	379	376	374	375
25	372	368	367	369	368	362	358	357	356	360	365	365	365	369	369	370	370
26	366	364	361	360	357	356	356	353	353	353	360	363	367	369	369	372	373
27	371	368	366	365	365	363	361	358	357	355	361	367	373	379	383	383	382
28	382	380	379	377	378	377	375	371	372	374	380	387	389	393	398	397	394
29	386	387	385	383	382	375	371	365	368	370	369	367	373	378	385	386	381
30	380	380	381	379	376	374	372	371	378	382	385	389	390	392	391	392	389
31	374	374	374	372	372	369	363	353	348	344	347	358	359	364	361	362	360
Mean	370.5	369.1	368.7	368.6	368.3	367.1	363.1	358.0	356.5	355.9	359.2	364.3	366.6	370.3	372.4	373.1	371.3

VERTICAL INTENSITY: 0.34 . . . C.G.S.

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	353	353	351	352	351	347	343	340	343	344	348	362	371	375	378	374	376
2	371	367	365	365	367	363	355	349	348	349	353	345	341	349	352	348	346
3	370	370	367	364	363	360	358	355	357	356	359	365	369	374	377	377	376
4	377	376	375	377	374	371	364	350	346	349	359	363	372	376	376	373	370
5	365	362	361	360	357	356	355	354	354	354	353	361	368	370	374	377	376
6	379	377	372	373	574	374	371	363	358	360	365	372	382	383	384	385	379
7	387	388	388	387	387	387	387	368	362	372	376	399	395	387	381	386	386
8	398	397	398	394	393	392	379	369	361	365	369	382	385	387	389	387	386
9	388	388	391	389	389	388	381	374	375	375	377	384	388	392	395	392	390
10	392	391	390	392	393	389	382	374	373	379	380	386	388	392	394	392	390
11	386	387	384	386	387	380	370	367	367	364	368	381	381	386	392	394	390
12	394	394	390	391	392	391	385	378	370	373	378	389	393	394	395	394	397
13	392	390	391	391	394	392	385	370	364	367	376	378	381	388	392	392	396
14	389	393	391	392	390	387	380	370	364	365	375	384	383	386	378	377	376
15	383	382	381	381	382	381	375	366	360	358	363	370	...	...	370	368	369
16	367	367	367	367	368	366	363	360	359	359	360	364	366	370	377	374	374
17	375	373	372	374	373	372	369	365	360	366	371	372	373	373	372	370	370
18	375	373	373	371	369	367	363	357	356	364	372	376	375	377	378	377	379
19	374	372	368	368	367	360	356	349	349	349	356	361	361	361	362	363	361
20	355	353	354	354	354	351	343	337	336	338	341	340	338	343	345	345	347
21	340	341	341	342	340	338	334	332	333	331	335	344	348	353	355	355	350
22	343	340	339	339	339	336	332	325	320	322	322	325	329	331	331	331	333
23	337	336	334	334	333	329	325	325	327	326	327	330	334	338	338	338	339
24	332	328	326	326	329	328	320	313	306	304	316	321	323	330	337	333	329
25	331	330	328	325	322	319	311	305	302	306	311	318	320	318	322	321	318
26	319	320	317	318	317	313	310	305	307	308	306	308	316	317	319	319	318
27	321	321	322	321	320	317	310	306	308	312	323	321	327	321	327	319	317
28	318	317	316	313	313	312	306	302	295	297	302	318	318	318	318	317	311
29	311	310	313	312	316	307	303	286	288	291	302	308	311	313	314	305	302
30	302	310	307	308	306	303	297	294	297	303	310	309	307	304	304	298	297
31	314	314	313	311	310	304	291	289	296	302	308	318	318	318	310	303	298
Mean	358.5	357.9	356.8	356.5	351.2	353.3	347.6	341.3	339.4	341.7	346.6	352.8	355.4	357.5	358.9	357.2	355.9

JULY, 1905.

Day	18	19	20	21	22	23	24	Mean	Maximum		Minimum		Range	Remarks a. m.	Remarks p. m.
										h. m.		h. m.			
1	306	306	309	310	309	314	313	302.2	314	23.00	278	11.00	36	C	C
2	316	312	312	314	315	315	316	308.6	316	6.24	288	10.00	28	C	C
3	301	301	301	301	301	298	303	306.6	319	6.00	291	10.00	28	C	C
4	299	303	303	304	303	305	305	...	317	6.00	285	10.00	32	C	C
5	304	305	307	307	309	306	309	...	320	6.00	261	10-11	59	C	C
6	317	326	322	...	...	...	...	...	326	19.00	**257**	11.10	69	C	C
7	337	333	340	341	340	343	338	...	347	23.20	318	11-12	29	C	C
8	337	340	340	343	341	350	342	335.4	350	23.00	310	12.00	40	C	A
9	341	340	345	342	348	350	346	341.0	357	23.28	322	11.00	35	C	C
10	352	353	355	354	352	352	350	349.2	359	16.00	332	9.00	27	C	C
11	366	366	366	363	360	361	357	357.5	366	18-20	340	10.00	26	C	C
12	363	363	366	367	368	368	368	363.3	368	[illegible]	354	15.00	14	C	C
13	381	383	382	380	378	380	380	374.8	383	19.00	363	9.00	20	C	C
14	385	387	389	390	391	392	392	383.5	394	14.00	367	7.40	27	C	C
15	397	398	401	398	392	390	392	392.5	402	15-16	376	10.00	26	C	C
16	399	401	402	403	404	403	403	398.3	**412**	15.00	383	8-9	29	C	C
17	403	405	406	407	408	406	406	404.8	410	4.12	388	9.18	22	C	C
18	405	406	409	409	407	407	406	402.1	409	20-21	390	8.00	19	C	C
19	396	396	397	398	398	397	396	394.7	404	1.00	381	8.00	23	C	C
20	394	394	396	395	395	390	388	388.6	396	20.00	375	10.00	21	C	C
21	389	389	391	391	390	390	391	383.2	391	20-21, 24.00	365	8.00	26	C	C
22	389	386	385	383	382	382	382	381.7	389	17-18	374	9.00	15	C	C
23	387	385	384	387	385	380	378	376.7	389	17.45	362	8.00	27	C	C
24	383	383	382	382	383	380	379	374.2	383	18-19, 22.00	362	8,11	21	C	C
25	370	370	371	372	371	371	369	366.8	372	1,21	356	9.00	16	C	C
26	375	375	372	373	374	373	372	365.2	375	[illegible]	353	8-10	22	C	C
27	382	388	387	387	388	388	388	373.5	388	[illegible]	355	10.00	33	C	C
28	394	393	393	392	391	388	389	385.1	398	15.00	371	8.00	27	C	C
29	381	381	381	381	382	384	381	378.4	387	2.00	364	7.45	23	C	C
30	386	385	384	381	383	381	377	382.4	394	15.32	371	8.00	23	C	C
31	359	361	361	361	360	358	355	361.2	374	1-3	344	9.35	30	C	C
Mean	371.7	372.1	372.9	372.7	372.4	372.1	371.1	367.8	377.7		352.4		25.4		

AUGUST, 1905.

Day	18	19	20	21	22	23	24	Mean	Maximum		Minimum		Range	Remarks a. m.	Remarks p. m.
										h. m.		h. m.			
1	375	377	377	375	372	372	371	361.7	378	15.00	340	8.00	38	C	C
2	350	347	368	370	367	367	371	357.2	371	1,24	341	13.00	30	C	C
3	375	377	376	377	380	377	377	369.0	380	22.00	355	8.00	25	C	C
4	370	370	370	369	368	370	368	368.4	377	1,4	343	9.28	34	C	C
5	373	374	376	378	378	378	376	366.2	378	21-23	338	10.35	40	C	C
6	381	381	384	384	385	387	387	376.7	388	23.20	358	9.00	30	C	C
7	384	382	395	389	394	400	399	386.1	**400**	23.00	362	9.00	38	C	A
8	389	387	390	393	391	388	389	385.7	398	1,3	359	8.48	39	C	C
9	389	389	391	392	392	390	390	387.0	395	15.00	374	8.00	21	C	C
10	388	387	386	389	385	388	389	387.0	396	14.32	373	9.00	23	C	C
11	391	394	393	395	391	394	392	384.2	395	21.00	364	10.00	31	C	C
12	397	897	398	397	395	396	390	390.3	398	20.00	370	9.00	28	C	C
13	395	394	394	395	392	393	392	387.2	396	17.00	362	8.53	34	C	C
14	383	385	386	380	382	379	384	381.6	393	2.00	364	9.00	29	C	C
15	370	372	374	375	375	374	373	...	383	1.00	358	10.00	25	C	C
16	378	382	385	382	381	382	380	370.7	387	20.40	359	9-10	28	C	C
17	373	375	377	378	378	379	379	372.5	379	23-24	360	9.00	19	C	C
18	379	381	382	380	380	378	377	373.3	382	20.00	353	8.50	29	C	C
19	362	361	363	361	361	362	360	361.1	374	1.00	347	9.20	27	C	C
20	347	347	350	352	350	350	350	346.7	355	1.00	336	9.00	19	C	C
21	346	346	350	353	350	348	346	343.8	357	14.40	331	10.00	26	C	C
22	334	338	342	342	341	342	344	334.2	344	24.00	319	8.50	25	C	C
23	332	335	339	336	338	338	337	333.5	339	17,20	325	7-8	14	C	C
24	328	331	330	329	333	337	335	326.0	337	15.23	303	9.40	34	C	C
25	321	323	320	324	327	326	326	319.7	331	1.00	300	8.40	31	C	C
26	316	320	322	323	323	322	326	316.2	326	24.00	305	8.00	21	C	C
27	318	318	329	322	322	320	323	319.4	329	20.00	300	8.12	29	C	C
28	313	315	317	317	316	317	316	312.6	319	13.40	292	9.20	27	C	C
29	313	318	314	315	313	312	310	307.8	318	19.00	**286**	8.00	32	C	C
30	310	316	308	316	315	322	315	306.6	324	22.50	294	8.00	30	C	A
31	294	301	301	314	304	295	297	305.1	321	13.30	289	8.00	32	A	A
Mean	356.8	358.3	360.4	360.9	360.1	360.3	359.9	354.6	365.5		336.7		28.8		

VERTICAL INTENSITY: 0.34 . . . C.G.S.

SEPTEMBER, 1905.

Day \ Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	308	307	305	306	305	304	294	277	264	271	293	308	317	317	311	305	304
2	309	309	310	311	314	310	303	296	285	283	294	317	315	315	315	311	309
3	..		313	316	315	311	307	303	297	295	301	311	316	317	316	312	315
4	332	335	330	330	328	327	319	313	314	316	314	322	328	325	318	315	311
5	312	315	313	316	304	308	296	282	269	272	279	306	310	310	303	296	284
6	297	293	300	304	305	301	288	281	270	278	290	316	312	308	309	292	282
7	294	296	298	300	303	306	297	285	272	271	279	290	295	296	293	293	296
8	307	308	311	309	308	308	299	293	289	293	302	311	323	321	313	305	300
9	311	315	314	313	313	308	298	291	287	292	303	314	322	319	319	305	302
10	315	313	316	316	310	307	300	295	291	301	314	325	330	329	319	312	302
11	313	319	323	312	310	308	284	278	276	291	310	330	334	331	326	309	293
12	303	303	303	307	306	293	274	263	263	268	276	299	302	306	306	299	279
13	299	310	305	305	307	300	286	272	251	261	286	310	319	325	316	304	290
14	303	303	306	307	308	303	287	280	280	287	305	327	331	327	316	297	283
15	295	296	301	299	300	303	298	292	279	286	291	310	307	297	291	280	271
16	285	285	281	278	279	279	264	246	239	242	257	278	286	286	282	272	259
17	267	271	275	279	281	281	268	245	234	241	257	285	305	309	304	297	289
18	303	307	309	313	316	313	301	293	290	290	305	338	347	346	345	336	334
19	353	351	366	355	358	355	349			342	359	359	365	367	355	354	355
20	370	370	372	373	380	373	367	362	357	360	366	369	372	373	375	373	370
21	371	371	372	374	372	368	367	361	361	372	379	392	401	394	393	388	377
22	380	382	381	380	378	375	370	364	361	363	368	376	380	383	377	371	367
23	381	379	364	367	366	367	357	353	352	353	363	372	383	378	377	372	364
24	365	365	365	365	363	363	365	363	362	358	363	374	380	376	368	364	358
25	364	363	363	362	360	357	355	349	345	343	350	370	371	362	351	334	326
26	353	357	360	364	363	350	355	341	342	347	360	366	368	353	332	317	285
27	351	348	350	349	351	343	337	335	333	339	318	362	358	336	318	293	274
28	326	326	320	320	325	318	306	292	275	265	286	326	336	336	324	312	312
29	313	315	324	317	317	314	306	300	302	307	319	334	336	337	339	324	319
30	317	320	321	319	314	317	310	304	294	289	298	362	374	374	386	371	371
Mean	320.9	322.3	323.3	323.3	323.0	319.8	310.9	302.0	295.7	299.5	310.8	330.3	335.5	333.0	327.7	317.6	309.1

Day	18	19	20	21	22	23	24	Mean	Maximum	(h m)	Minimum	(h m)	Range	Remarks a. m.	Remarks p. m.
1	305	307	309	309	311	307	305	302.0	321	13.22	259	9.25	62	C	C
2	306	307	308	310	309	309	311	306.9	317	12.00	283	10.00	34	C	C
3	304	288	296	309	309	312	322		322	24.00	288	19.00	34	C	S
4	302	300	302	303	307	305	316	317.2	335	2.00	300	19.00	35	A	A
5	282	289	292	299	299	301	313	297.9	316	4.00	269	9.00	47	A	A
6	276	281	286	290	290	291	291	293.0	316	12.00	270	9.00	46	C	C
7	293	292	293	295	294	297	302	292.9	308	5.42	271	10.00	37	C	C
8	298	305	300	302	304	306	306	305.0	323	13.00	289	9.00	34	C	C
9	308	311	310	310	311	311	509	308.2	322	13.00	287	9.00	35	C	C
10	297	307	305	304	307	309	312	309.8	330	13.00	288	9.20	42	C	C
11	296	294	297	296	301	301	299	305.5	336	12.40	276	9.00	60	C	C
12	278	291	294	296	293	295	296	291.4	307	4.00	263	8-9	44	C	C
13	286	294	290	291	292	297	301	295.7	328	13.40	251	9.00	77	C	C
14	286	290	291	288	289	289	291	298.9	331	13.00	280	8-9	51	C	C
15	269	272	273	278	277	280	279	288.5	310	12.00	269	18.00	41	C	C
16	255	261	261	259	259	263	263	267.5	286	13-14	239	9.00	47	C	C
17	293	296	298	302	301	300	301	282.5	309	14.00	**234**	9.00	75	C	C
18	313	306	321	334	340	345	342	320.4	347	13.00	290	9-10	57	C	C
19	355	360	368	381	377	378	375		381	21.00	342	10.00	39	C	A
20	370	374	374	375	377	378	378	371.2	380	5.00	357	9.00	23	C	C
21	373	378	381	385	390	384	386	378.7	**401**	13.00	354	8.15	47	C	C
22	367	378	376	375	374	375	381	374.2	383	14.00	361	9.00	22	C	C
23	365	...	...	...	...	...	...		383	13.00	352	9.00	31	C	C
24	358	362	363	365	364	367	368	365.2	380	13.00	358	10.00, 17.18	22	C	C
25	334	342	344	345	346	349	360	351.9	371	13.00	326	17.00	45	C	C
26	292	331	337	545	350	353	351	344.7	370	12.35	285	17.00	85	C	C
27	300	315	319	332	335	332	331	332.9	362	12.00	270	16.32	92	C	A
28	315	318	318	317	318	317	322	311.7	336	3-14	265	10.00	71	C	C
29	322	326	328	326	326	323	321	320.6	339	15.00	300	8.00	39	C	C
30	373	379	377	377	381	385	385	345.7	386	15.00	289	10.00	97	C	C
Mean	309.1	315.0	316.7	318.8	320.2	321.1	323.0	317.9	338.9		288.3		50.6		

VERTICAL INTENSITY: 0.34 . . . C.G.S.

OCTOBER, 1905.

Day \ Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	385	380	387	381	384	389	375	371	361	361	371	386		398	394	391	384
2	401	400	400	403	400	398	399	393	383	381	392	401	407	410	411	406	407
3	411	412	411	410	407	403	403	390	391	386	390	393	402	408	404	401	398
4	395	393	393	393	392	394	394	391	391	387	389	404	410	415	411	402	401
5	399	396	400	404	405	406	407	400	395	397	402	411	414	411	412	408	402
6	407	408	410	403	402	400	395	380	382	380	388	401	406	409	408	403	397
7	413	413	413	413	411	310	407	401	398	403	406	410	414	411	409	394	386
8	389	389	386	387	384	383	386	388	368	366	376	394	399	393	385	379	372
9	375	381	375	378	377	379	372	365	356	351	363	378	382	381	377	379	373
10	374	373	373	371	371	369	365	358	358	356	361	870	370	368	352	348	349
11	362	366	363	364	361	361	358	354	351	346	351	359	370	364	361	352	345
12	353	353	352	358	356	355	354	344	341	337	342	343	351	356	351	346	340
13	354	356	354	352	352	355	349	344	339	336	338	351	362	368	361	358	356
14	358	364	368	363	363	364	362	360	357	351	343	348	347	350	349	346	347
15	353	352	352	352	351	350	349	340	336	336	335	341	353	356	356	353	348
16	355	354	357	357	356	356	353	348	341	331	326	338	350	358	369	358	359
17	356	356	358	357	354	357	354	349	344	341	336	344	347	346	342	336	336
18	336	351	345	344	344	345	341	330	322	318	323	329	334	341	343	337	339
19	341	341	339	340	341	340	339	335	331	324	323	330	329	344	344	343	342
20	338	337	338	339	339	340	340	337	336	332	331	337	342	...	...	351	348
21	348	349	348	349	347	345	342	336	335	334	332	336	343	344	345	346	346
22	341	344	341	342	341	339	339	336	334	329	336	342	346	351	354	351	351
23	346	345	345	346	346	346	345	341	335	333	329	344	347	353	351	356	355
24	353	354	352	351	351	349	349	344	341	337	339	339	346	350	351	358	347
25	348	346	343	342	342	342	343	333	329	329	336	340	346	348	348	349	350
26	343	346	347	345	345	345	346	338	332	332	333	339	343	346	343	349	353
27	349	352	344	344	344	340	343	340	338	338	337	341	344	344	347	344	345
28	338	336	336	334	331	333	326	326	321	344	333	335	330	327	333	335	327
29	322	338	329	332	336	344	353	351	346	342	336	335	344	344	341	328	323
30	343	344	342	343	345	344	346	342	334	322	317	313	316	316	303	295	...
31	...	...	...	...	...	292	287	...	...	...	...	277	295	306	308	302	296
Mean	363.7	365.5	361.2	364.2	363.3	363.5	362.0	356.7	·351.7	349.8	351.7	359.1	364.3	366.5	365.3	361.7	359.0

Day	18	19	20	21	22	23	24	Mean	Maximum	(h m)	Minimum	(h m)	Range	Remarks a. m.	Remarks p. m.
1	390	391	392	394	401	402	403	...	403	24.00	361	9-10	42	C	C
2	412	412	412	413	414	414	413	403.4	414	22-23	381	10.00	33	C	C
3	398	399	403	405	405	399	399	401.5	412	2.00	386	10.00	26	C	C
4	403	405	406	406	405	404	401	399.4	415	14.00	387	10.00	28	C	C
5	400	402	404	408	408	410	413	404.7	414	13.00	395	9.00	19	C	C
6	400	400	390	394	400	417	422	400.5	**422**	24.00	380	10.00	42	C	C
7	384	384	389	390	394	398	394	401.9	419	12.32	381	18-19	35	C	C
8	369	375	378	379	384	385	386	382.5	399	13.00	362	9.32	37	C	C
9	374	374	374	376	377	377	377	373.8	382	13.00	351	10.00	31	C	C
10	354	355	356	356	352	358	358	361.5	374	1.00	348	16.00	26	C	C
11	348	351	349	353	353	353	352	356.1	370	14.00	345	17.00	25	C	C
12	347	352	351	351	356	355	354	349.9	358	4.00	337	10.00	21	C	C
13	356	360	361	362	362	360	356	354.4	369	13.32	336	10.00	33	C	C
14	354	358	354	356	357	359	358	355.7	368	3.00	343	11.00	25	C	C
15	356	358	360	360	359	359	356	350.9	360	20-21	335	11.00	25	C	C
16	357	360	363	366	366	364	360	351.2	369	15.00	326	11.00	43	C	C
17	337	338	339	940	341	343	347	345.7	358	3.00	336	11.00, 16.17	22	C	C
18	340	339	339	338	340	340	346	337.7	351	2.00	313	9.30	38	C	C
19	342	341	343	341	341	341	341	338.2	344	14-15	322	10.42	22	C	C
20	348	348	347	347	351	352	350	...	352	23.00	331	10.00	21	C	C
21	348	346	347	348	346	343	344	343.6	349	2, 4	332	11.00	17	C	C
22	353	354	351	349	350	352	351	344.9	354	15, 19	329	10.00	25	C	C
23	357	357	357	358	359	359	357	348.9	359	22-23	329	11.00	30	C	C
24	351	352	352	352	351	352	349	348.7	358	16.00	337	10.00	21	C	C
25	352	352	351	351	352	349	348	344.5	352	18-19, 22.00	329	9-10	23	C	C
26	356	355	355	355	353	353	354	346.1	356	18.00	332	9-10	24	C	C
27	349	349	349	345	343	345	346	344.4	352	2.00	337	11.00	15		C
28	333	327	327	328	311	300	315	328.5	370	9.25	**300**	23.00	70	C	C
29	330	330	330	330	330	333	337	336.0	353	7.00	321	1.18	32	C	C
30	...	...	...	...	...	...	...	...	...		...		...	C	
31	301	303	304	310	313	314	314							C	C
Mean	361.6	362.4	362.6	363.3	363.3	363.8	364.2	361.4	374.1		344.9		23.2		

VERTICAL INTENSITY: 0.34 . . . C.G.S.

Day \ Hour	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17
1	317	317	320	323	326	327	326	318	308	295	299	359	368	374	378	377	378
2	387	385	386	387	386	388	388	386	378	375	368	371	375	386	390	387	387
3	392	390	389	389	392	394	390	384	373	370	370	373	379	382	382	384	383
4	387	388	388	389	389	386	386	383	382	358	360	369	369	372	373	376	376
5	355	362	364	366	364	362	370	369	369	363	358	358	367	375	378	379	379
6	382	381	381	381	378	378	375	367	365	359	362	380	382	388	387	387	385
7	376	376	369	367	365	361	357	351	340	342	348	361	365	371	375	377	379
8	374	374	370	368	366	361	363	356	351	351	354	361	367	373	376	378	378
9	374	371	370	372	370	369	363	359	359	351	348	360	366	373	379	380	381
10	383	382	380	381	380	378	376	373	371	370	371	379	379	380	381	385	387
11	371	371	365	363	360	355	349	345	341	340	338	345	...	...	...	...	...
12	358	358	350	351	344	349	343	342	338	337	343	344	346	362	366	368	368
13	364	372	365	366	371	363	358	353	347	349	352	360	369	...	...	385	389
14	398	401	406	401	400	402	402	400	393	383	375	379	373	381	379	376	368
15	384	387	385	387	384	381	375	368	363	360	363	369	371	373	375	376	376
16	380	374	367	353	341	340	...	...	...	353	358	370	372	376	387	392	385
17	398	395	387	386	390	386	386	379	373	369	371	373	374	376	377	376	375
18	375	373	371	...	...	361	359	359	358	...	...	...	...	...	...	...	...
19	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
20	...	...	...	...	...	...	...	...	...	...	...	300	335	361	369	358	346
21	370	372	370	370	361	364	361	359	350	339	340	341	337	348	361	360	354
22	375	374	375	374	374	...	380	378	370	366	363	366	375	379	381	381	378
23	394	390	390	388	389	387	385	387	379	373	376	388	393	397	397	401	405
24	406	401	402	406	400	399	403	402	395	389	386	389	395	401	405	404	407
25	405	415	408	406	409	404	407	405	402	397	...	...	...	...	...	...	...
26	411	408	409	...	...	...	...	...	...	...	...	404	413	410	408	410	419
27	423	424	426	422	423	425	426	420	414	408	400	407	...	...	...	413	413
28	419	417	418	419	421	421	418	416	411	404	404	413	417	417	420	426	423
29	440	437	433	431	431	431	432	432	422	408	404	414	411	428	421	416	413
30	413	412	413	412	414	409	406	402	400	401	408	412	421	421	430	425	425
Mean	385.3	384.8	383.5	383.7	382.5	381.8	380.2	376.7	371.0	364.8	365.4	376.7	377.7	383.9	386.5	386.9	386.3

VERTICAL INTENSITY: 0.34 . . . C.G.S.

1	426	425	425	424	425	421	420	411	406	403	408	420	428	430	441	434	432
2	430	430	432	428	427	427	426	419	408	400	397	408	425	435	442	443	440
3	432	434	431	428	430	427	427	424	419	414	413	425	430	434	440	446	445
4	446	438	440	438	437	431	428	424	416	418	426	446	452	461	453	456	457
5	454	445	446	445	447	449	447	443	433	422	420	422	424	427	433	436	438
6	443	442	...	...		...	...		...	436	428	434	442	445	451	458	457
7	451	452	451	451	450	451	453	452	444	442	439	442	443	450	454	458	458
8	451	451	451	451	450	450	451	449	441	439	440	451	455	455	455	459	455
9	453	453	452	452	452	450	446	445	439	436	438	437	442	446	446	439	439
10	432	430	431	430	426	423	422	421	418	416	416	422	428	430	437	436	438
11	424	421	418	419	416	414	414	412	403	397	396	408	411	416	416	419	422
12	417	417	416	418	417	416	417	415	408	399	403	417	417	415	415	414	411
13	399	399	393	399	389	386	388	384	384	380	380	376	380	382	384	389	392
14	390	385	381	381	379	375	371	369	366	367	370	372	377	387	391	394	393
15	384	384	380	375	375	374	376	371	369	366	365	369	375	379	383	385	387
16	375	369	364	364	363	361	360	360	356	355	351	356	359	371	381	384	385
17	379	376	375	375	374	374	375	373	371	367	365	367	369	368	371	370	370
18	377	379	379	380	381	379	380	380	378	371	365	377	384	389	394	391	389
19	396	394	396	395	396	396	395	395	392	390	385	393	399	403	405	404	402
20	405	403	401	404	405	402	401	401	398	394	396	403	405	411	418	412	403
21	414	414	413	415	413	408	411	409	402	393	391	392	402	404	402	400	396
22	385	382	379	376	376	371	369	362	354	350	354	366	384	395	399	393	389
23	386	381	379	379	379	376	370	365	360	345	352	371	384	393	401	401	399
24	...	...	...	...	...	...	369	366	359	352	362	374	384	393	398	402	400
25	398	396	394	392	390	389	387	387	380	378	393	412	419	424	426	428	429
26	436	434	433	438	439	440	441	438	431	424	421	426	436	434	438	439	435
27	440	441	438	440	439	439	434	431	428	415	417	425	434	438	443	440	440
28	...	435	436	433	...	...	432	431	421	405	401	412	418	422	429	434	434
29	429	429	425	423	422	421	420	417	409	391	387	395	399	401	405	403	400
30	395	395	...	...	...	...	391	388	382	367	374	372	379	387	388	390	393
31	406	407	403	401	400	395	394	391	385	377	374	380	385	394	404	408	408
Mean	415.6	413.6	412.4	412.1	411.2	409.2	408.8	406.1	400.4	395.6	395.7	403.3	409.2	413.6	417.3	417.8	416.5

NOVEMBER, 1905.

18	19	20	21	22	23	24	Mean	Maximum	h m	Minimum	h m	Range	Remarks a. m.	Remarks p. m.
381	381	382	383	384	385	385	349.6	385	23-24	**295**	10.00	90	C	C
387	391	391	391	392	391	391	385.2	392	22.00	368	11.00	24	C	C
385	385	385	386	386	386	386	381.0	394	6.00	370	10-11	24	C	C
377	376	372	368	367	365	366	375.9	389	4-5	358	10.00	31	C	C
380	386	384	385	384	386	383	371.9	386	19.23	355	1.00	31	C	C
386	386	384	384	383	377	374	378.8	388	14.00	359	10.00	29	C	C
378	380	382	378	377	374	379	367.8	382	20.00	340	9.00	42	C	C
379	379	377	378	378	376	376	369.4	379	18-19	351	9-10	28	C	C
383	385	384	385	382	381	383	371.9	385	19.00	348	11.00	37	C	C
390	389	385	383	383	382	377	380.2	390	18.00	370	10.00	20	C	C
365	365	366	364	362	361	360	...	...		...			O	C
370	366	366	371	368	369	370	356.1	371	21.00	337	10.00	34	C	C
395	392	395	399	398	405	398	...	405	23.00	347	9.00	58	C	C
365	369	381	386	394	392	390	387.2	406	3.00	362	17.32	44	C	A
380	379	377	376	374	374	373	375.4	391	4.28	358	9.52	33	C	C
388	391	395	395	394	401	392	...	...		...		...	C	A
377	380	378	382	380	377	377	380.1	399	1.12	369	10.00	30	C	C
...	...	...	...	...	...	...	...	...		...		...	C	C
...	...	...	...	...	...	...	...	...		...		...	C	C
345	346	348	353	360	365	363	...	...		...		...	C	C
343	352	357	367	367	364	370	357.4	374	2.30	335	12.50	39	C	C
384	382	381	388	390	385	388	...	390	22.00	363	11.50	27	C	C
401	405	402	399	398	401	400	392.7	405	17.19	373	10.00	32	C	C
408	403	404	406	408	406	407	401.3	408	18.24	383	11.12	25	C	C
411	412	413	410	409	413	409		...		...		...	C	C
420	422	421	421	420	420	408		...		...		...	C	C
417	419	421	422	421	422	425	...	426	3.7	400	11.00	26	C	C
426	434	435	432	435	432	433	421.3	435	20.22	403	10.42	32	C	C
416	419	415	418	418	416	409	421.5	**442**	1.15	404	11.00	38	C	C
427	430	431	429	427	425	424	417.3	430	19.00 19.20	400	9.00	30	C	C
386.9	388.8	388.5	389.3	389.2	387.9	387.7	382.3	396.5		361.9		34.6		

DECEMBER, 1905.

									h m		h m			
433	433	435	434	434	431	431	425.4	441	15.00	403	10.00	38	C	C
440	439	440	439	437	434	433	428.3	445	15.32	397	11.00	48	C	C
445	446	446	451	450	447	443	434.5	451	21.00	413	11.00	38	C	C
452	454	446	441	445	441	439	441.0	**464**	13.50	416	9.00	48	C	C
441	441	438	438	438	437	436	437.5	463	0.30	420	11.00	43	C	A
455	457	457	457	457	457	456		...				...	C	C
457	456	456	455	455	454	455	451.2	458	16-17	439	11.00	19	C	C
453	455	456	457	459	462	459	452.3	462	23.00	439	10.00	23	C	C
441	440	440	453	449	437	436	444.2	454	1.28	436	10.24	18	C	C
435	436	436	434	430	429	430	428.6	438	17.00	416	10-11	22	C	C
421	422	422	422	422	422	422	415.8	429	1.20	396	11.00	33	C	C
400	407	408	408	406	405	401	411.6	418	4.00	399	10.00	19	C	C
399	401	402	403	402	398	390	390.8	416	20.25	376	12.00	40	C	C
394	395	394	392	392	393	387	383.1	395	19.00	366	9.60	29	C	C
387	388	389	387	386	384	380	379.1	389	20.00	365	11.00	24	C	C
384	384	384	384	386	384	384	371.2	387	15.35	351	11.00	36	C	C
372	372	372	375	376	378	378	372.6	379	1.00	365	11.00	14	C	C
391	392	394	396	397	396	394	384.7	397	22.00	365	11.00	32	C	C
404	403	404	403	407	407	403	398.6	407	22-23	385	11.00	22	C	C
405	404	413	415	417	420	418	406.5	422	23.28	393	10.20	29	C	C
395	395	392	389	386	384	382	400.1	422	4.20	382	24.00	40	C	C
388	388	390	389	388	384	388	379.0	400	14.43	350	10.00	50	C	C
399	395	394	393	390	387	...	...	401	15-16	**345**	10.00	56	C	C
397	397	397	396	396	394	394		...		...		...	C	C
433	433	438	435	434	434	432	410.9	438	20.00	378	10.00	60	C	C
437	436	435	432	435	435	436	434.5	441	7.00	421	11.00	20	C	C
440	438	435	434	434	...	...		443	15.00	415	10.00	28	C	C
434	431	428	425	420	420	426		436	3.00	401	11.00	35	C	C
397	400	399	398	396	395	391	406.3	429	1-2	387	11.00	42	C	C
392	391	391	394	397	400	400				...			C	C
411	413	416	417	419	416	418	400.9	419	22.00	374	11.00	45	C	C
417.0	417.3	417.8	417.9	417.8	416.3	414.8	411.6	426.6		393.3		31.3		

MEAN VALUES OF MAGNETIC ELEMENTS

TOKIO

YEAR 1905.

DECLINATION : 4° + · ′ . W

Month \ Hour	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	Mean Max.	Mean Min.	Mean Range	Absolute Max.	Day	Absolute Min.	Day	Absolute Range
January	45.41	45.43	45.51	45.59	45.74	45.89	45.94	45.23	44.26	44.29	45.26	46.55	47.06	46.92	46.49	45.71	45.29	45.35	45.41	45.56	45.51	45.34	45.33	45.36	45.60	47.57	43.62	3.95	50.3	6	41.9	17	8.4
February	45.70	45.80	45.87	46.04	46.22	46.05	45.76	43.99	42.74	43.22	45.22	46.82	47.67	48.00	47.65	47.02	46.25	46.05	46.19	45.77	45.90	45.70	45.78	45.00	45.87	48.54	42.34	6.20	52.2	3	40.7	11	11.5
March	45.82	45.76	45.63	45.79	45.86	45.98	45.00	43.53	42.72	43.42	45.23	47.48	48.44	48.53	47.82	46.93	46.07	46.09	46.37	46.05	45.85	45.83	45.80	45.79	45.91	48.96	42.19	6.77	50.7	2, 3, 7	39.8	2	10.9
April	45.18	45.11	45.00	45.02	45.23	45.00	44.01	42.94	42.56	44.04	45.94	47.72	48.77	48.81	48.06	47.00	46.00	45.54	45.86	45.80	45.67	45.74	45.65	45.63	45.68	49.24	42.11	7.13	52.0	3	40.2	26	11.8
May	46.51	46.28	46.18	46.12	45.77	44.83	44.09	43.75	44.46	46.05	47.86	48.87	49.60	49.54	48.92	48.06	47.09	46.69	46.82	46.84	46.82	46.93	46.81	46.60	46.73	49.92	43.29	6.63	51.8	21	39.4	19	12.4
June	46.02	45.75	45.59	45.47	44.87	43.62	42.99	43.24	44.13	45.68	47.19	48.30	48.77	48.81	48.37	47.63	46.81	46.03	45.85	46.03	46.19	46.28	46.17	46.22	46.08	49.15	42.53	6.62	51.1	23	39.8	23	11.3
July	45.27	45.12	44.96	44.91	44.26	42.89	41.82	42.21	42.90	44.63	46.56	47.88	48.39	48.52	48.08	47.00	46.01	45.37	45.22	45.41	45.38	45.46	45.57	45.43	45.39	49.00	41.26	7.74	51.1	6	39.1	19	12.0
August	45.49	45.19	45.06	44.85	44.25	42.57	41.68	42.11	43.83	46.35	47.95	49.28	49.65	48.97	47.68	46.45	45.45	45.25	45.29	45.24	45.31	45.65	45.59	45.67	45.62	49.97	41.29	8.67	52.0	30	40.1	[illegible]	11.9
September	45.60	45.49	45.36	45.28	44.96	43.98	43.25	43.44	44.89	47.43	49.30	49.84	49.41	48.04	46.75	45.82	45.47	46.05	45.93	46.03	46.07	46.02	45.96	45.65	46.08	50.11	42.75	7.36	53.4	2	41.2	16	12.2
October	46.10	45.91	45.98	45.94	45.97	46.01	44.95	44.18	44.24	45.49	47.39	48.88	49.27	48.55	47.49	46.59	46.41	46.47	46.55	46.58	46.56	46.47	46.35	46.25	46.44	49.51	43.66	5.85	50.7	29	41.9	30	8.8
November	47.02	46.82	46.78	47.01	47.28	47.26	46.96	45.97	45.51	46.05	47.21	48.34	48.96	48.68	48.01	47.61	47.89	47.84	47.75	47.75	47.57	47.35	47.26	47.22	47.34	49.44	44.82	4.63	52.1	15, 16	42.4	3	9.7
December	47.55	47.60	47.57	47.62	47.61	47.78	47.84	47.08	46.47	46.84	48.12	49.01	49.19	48.87	48.39	47.66	47.63	47.69	48.18	47.76	47.70	47.65	47.60	47.61	47.78	49.50	46.20	3.31	50.7	13	45.0	2	5.7
Year	45.97	45.85	45.79	45.80	45.67	45.15	44.51	43.97	44.06	45.29	46.94	48.25	48.76	48.52	47.80	46.96	46.36	46.20	46.28	46.24	46.21	46.20	46.16	46.04	46.21	49.24	43.00	6.24	51.51		40.96		10.55

HORIZONTAL INTENSITY : 0.29 . . . . C. G. S.

Month \ Hour	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	Mean Max.	Mean Min.	Mean Range	Absolute Max.	Day	Absolute Min.	Day	Absolute Range
January	973.0	975.2	974.6	975.8	976.1	979.2	980.9	983.7	981.6	974.4	968.8	971.5	972.2	974.1	977.8	980.0	978.9	975.5	973.5	970.0	969.7	971.8	973.1	972.4	975.2	992.6	956.7	35.9	1023	21	936	6	87
February	962.6	963.5	964.8	964.5	964.4	967.5	971.0	973.6	969.8	959.8	951.0	953.7	957.6	961.5	965.8	968.4	967.4	964.4	960.8	959.0	958.3	958.2	960.1	960.7	962.9	982.5	939.0	43.5	1009	3	859	3	150
March	961.2	962.9	962.7	961.9	962.8	964.0	967.3	962.2	954.9	948.6	949.4	960.5	967.3	974.4	978.5	973.1	971.2	966.5	964.8	963.7	963.8	964.4	965.1	962.9	963.9	986.9	937.4	49.5	1026	29	863	2	163
April	952.8	952.5	953.7	954.7	953.3	955.6	953.1	947.9	939.0	936.5	944.0	956.6	966.7	971.1	968.6	963.8	960.6	957.5	956.0	953.0	955.5	954.1	955.3	953.6	954.8	980.1	929.7	50.4	1058	1	913	2, 20	145
May	958.2	956.1	955.1	955.1	957.5	958.0	953.9	947.0	943.4	944.8	951.2	959.3	968.0	972.7	973.8	972.9	968.1	962.3	961.9	960.5	960.2	959.4	958.5	959.1	959.0	979.3	938.0	41.2	996	17	909	1	87
June	930.9	930.3	930.3	929.5	931.9	932.4	925.8	920.4	920.0	924.5	934.2	936.6	942.9	944.9	942.4	938.4	934.2	933.8	933.2	933.4	933.6	934.6	934.0	931.7	932.7	950.9	913.1	37.7	1008	4	859	23	149
July	938.1	936.3	935.9	935.5	935.4	934.4	926.8	920.4	921.9	926.6	933.4	935.8	943.0	946.2	947.4	944.5	939.3	937.3	938.1	938.5	941.1	941.0	940.3	938.8	936.5	957.6	913.0	44.6	1003	16	868	6	135
August	942.7	943.9	943.1	943.7	944.6	941.5	933.0	923.2	923.2	930.3	938.6	945.6	952.3	954.0	953.9	949.8	944.1	941.4	942.3	943.9	944.4	944.3	945.8	945.8	942.3	963.4	917.6	45.8	996	2	819	2	177
September	955.7	954.4	956.1	955.6	955.5	952.4	943.3	933.1	928.6	933.8	943.0	955.7	965.4	969.8	967.7	962.7	956.5	951.3	950.1	950.2	952.4	954.5	955.5	957.1	952.5	976.8	922.2	54.7	1011	18	867	1	144
October	947.1	949.2	947.8	948.1	947.3	948.5	945.0	934.5	926.2	925.6	933.2	947.5	958.4	964.0	962.9	957.2	952.2	949.9	947.9	945.2	942.8	943.7	945.2	945.4	946.4	966.7	919.7	46.9	991	8	877	6	114
November	924.3	923.6	922.8	924.6	925.4	929.1	930.9	927.6	922.6	918.6	921.1	930.6	932.1	933.6	934.0	930.4	925.0	922.3	921.5	918.9	920.5	921.0	921.0	922.4	925.2	941.3	904.7	36.6	980	30	822	13	158
December	969.2	967.3	966.6	967.9	969.2	968.9	971.9	972.3	968.4	962.9	961.5	967.8	970.3	973.1	975.8	975.3	970.9	968.7	966.8	967.5	968.0	967.9	967.9	967.7	968.9	982.3	953.2	29.9	1024	12	911	13	113
Year	951.3	951.3	951.1	951.4	951.9	952.6	950.3	945.5	941.6	940.5	944.1	951.8	958.0	961.6	962.4	959.7	955.7	952.6	951.5	950.3	950.9	951.2	951.8	951.5	951.7	971.7	928.7	43.0	1010.4		875.2		135.2

VERTICAL INTENSITY : 0.34 . . . . C. G. S.

Month \ Hour	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	Mean Max.	Mean Min.	Mean Range	Absolute Max.	Day	Absolute Min.	Day	Absolute Range
January	400.8	399.9	397.3	395.9	393.3	392.0	389.4	386.4	381.2	374.2	374.4	382.6	390.5	397.5	403.9	406.8	406.4	406.1	405.4	404.2	404.1	404.2	403.0	400.7	395.8	411.9	371.5	40.3	442	23	326	26	116
February	382.3	379.8	378.2	375.4	371.6	371.6	369.0	365.0	356.8	344.0	342.2	354.7	364.5	373.0	382.2	387.9	389.8	390.2	389.1	389.4	388.4	386.6	385.9	383.6	375.1	395.3	339.9	55.3	436	15	292	23	134
March	428.3	427.1	425.2	424.1	423.4	422.0	421.3	416.3	407.4	397.6	396.0	406.0	412.9	420.1	426.4	427.8	428.3	427.5	429.4	430.3	430.7	430.9	430.9	428.0	421.6	438.8	394.9	44.9	445	26	315	6	120
April	408.6	408.9	409.4	408.9	408.8	408.8	406.9	403.8	396.1	390.8	392.7	399.9	403.0	404.5	405.0	406.1	405.4	405.7	407.6	408.8	410.3	409.3	410.0	407.9	405.3	417.3	387.3	30.0	458	30	357	5	101
May	367.4	367.1	367.7	369.1	371.4	370.7	365.8	358.5	353.7	350.8	351.9	361.4	361.7	363.1	362.8	363.1	359.3	357.4	357.9	360.1	361.1	361.5	361.8	362.5	362.0	377.2	343.3	33.9	443	1	279	16, 17	164
June	359.3	359.0	360.4	360.0	363.8	360.6	355.0	349.5	346.3	345.7	349.4	354.8	354.3	354.8	354.2	356.6	356.7	358.5	356.7	357.8	358.9	360.3	360.4	359.6	356.4	368.4	340.6	27.9	399	8	264	30	135
July	370.5	369.1	368.7	368.6	368.3	367.1	363.1	358.0	356.5	355.9	359.2	364.3	366.6	370.3	372.4	373.1	371.3	371.7	372.1	372.9	372.7	372.4	372.1	371.1	367.8	377.7	352.4	25.4	412	16	257	6	155
August	358.5	357.9	356.8	356.5	356.2	353.3	347.6	341.3	339.4	341.7	346.6	352.8	355.4	357.5	358.9	357.2	355.9	356.8	358.3	360.4	360.9	360.1	360.3	359.9	354.6	365.5	336.7	28.8	400	7	286	29	114
September	320.9	322.3	323.3	323.3	323.0	319.8	310.9	302.0	295.7	299.5	310.8	330.3	335.5	333.0	327.7	317.6	309.1	309.1	315.0	316.7	318.8	320.2	321.1	324.0	317.9	338.9	288.3	50.6	401	21	234	17	167
October	363.7	365.5	364.2	364.2	363.3	363.5	362.0	356.7	351.7	349.8	351.7	359.1	364.3	366.5	365.3	361.7	359.0	361.6	362.4	362.6	363.3	363.3	363.8	364.2	361.4	374.1	344.9	29.2	422	6	300	28	122
November	385.3	384.8	383.5	383.7	382.5	381.8	380.2	376.7	371.0	364.8	365.4	374.7	377.7	383.9	386.5	386.9	386.3	386.9	388.8	388.5	389.3	389.2	387.9	387.7	382.3	396.5	361.9	31.6	442	29	235	1	147
December	415.6	413.9	412.4	412.1	411.2	409.2	408.8	406.1	400.4	395.6	395.7	403.3	409.2	413.6	417.3	417.8	416.5	417.0	417.3	417.8	417.9	417.8	416.3	414.8	411.6	426.6	393.3	33.3	461	4	345	23	119
Year	380.1	379.6	378.9	378.5	378.1	376.7	373.3	368.4	362.9	359.2	361.3	370.3	374.6	378.1	380.2	380.2	378.7	379.0	380.0	380.8	381.4	381.3	381.1	380.2	376.0	390.7	354.5	36.2	431.2		298.4		132.8

VALUES OF THE COEFFICIENTS IN THE PERIODICAL EXPRESSION

$$f(t) = p_0 + p_1 \cos t + q_1 \sin t + p_2 \cos 2t + q_2 \sin 2t + p_3 \cos 3t + q_3 \sin 3t + p_4 \cos 4t + q_4 \sin 4t,$$

in which t is the Central Standard Mean Time (mean time of the meridian 135°E) coverted into arc, and $f(t)$ the mean value of the magnetic element at the time t for each month and for the year.

The values of the coefficients for declination are given in degrees and minutes and those for horizontal and vertical intensities in 10^{-5}C. G.S. unit.

1905,

DECLINATION.

Montn	p_0	p_1	q_1	p_2	q_2	p_3	q_3	p_4	q_4
January	4° 45′.60	−0.24	−0.18	+0.10	+0.48	−0.22	−0.49	+0.17	+0.32
February	45.87	−0.12	−0.70	−0.03	+1.12	−0.41	−0.80	+0.28	+0.25
March	45.91	−0.11	−1.00	+0.30	+1.15	−0.50	−0.83	+0.39	+0.33
April	45.68	−0.57	−1.27	+0.68	+1.09	−0.54	−0.81	+0.31	+0.14
May	46.73	−0.64	−1.36	+1.00	+0.92	−0.59	−0.37	+0.09	−0.09
June	46.08	−0.65	−1.42	+1.13	+0.95	−0.52	−0.21	−0.02	−0.19
July	45.39	−0.68	−1.56	+1.21	+1.16	−0.60	−0.30	+0.01	−0.18
August	45.62	−1.10	−1.37	+1.76	+0.93	−0.89	−0.10	+0.09	−2.03
September	46.08	−1.09	−0.86	+1.49	+0.26	−1.06	−0.07	+0.30	−0.22
October	46.44	−0.53	−0.84	+0.73	+0.63	−0.73	−0.49	+0.42	+0.11
November	47.34	−0.15	−0.70	+0.10	+0.44	−0.36	−0.44	+0.36	+0.16
December	47.78	−0.27	−0.22	+0.22	+0.33	−0.34	−0.35	+0.27	+0.24
Year	46.21	−0.51	−0.96	+0.72	+0.79	−0.56	−0.44	+0.22	+0.06

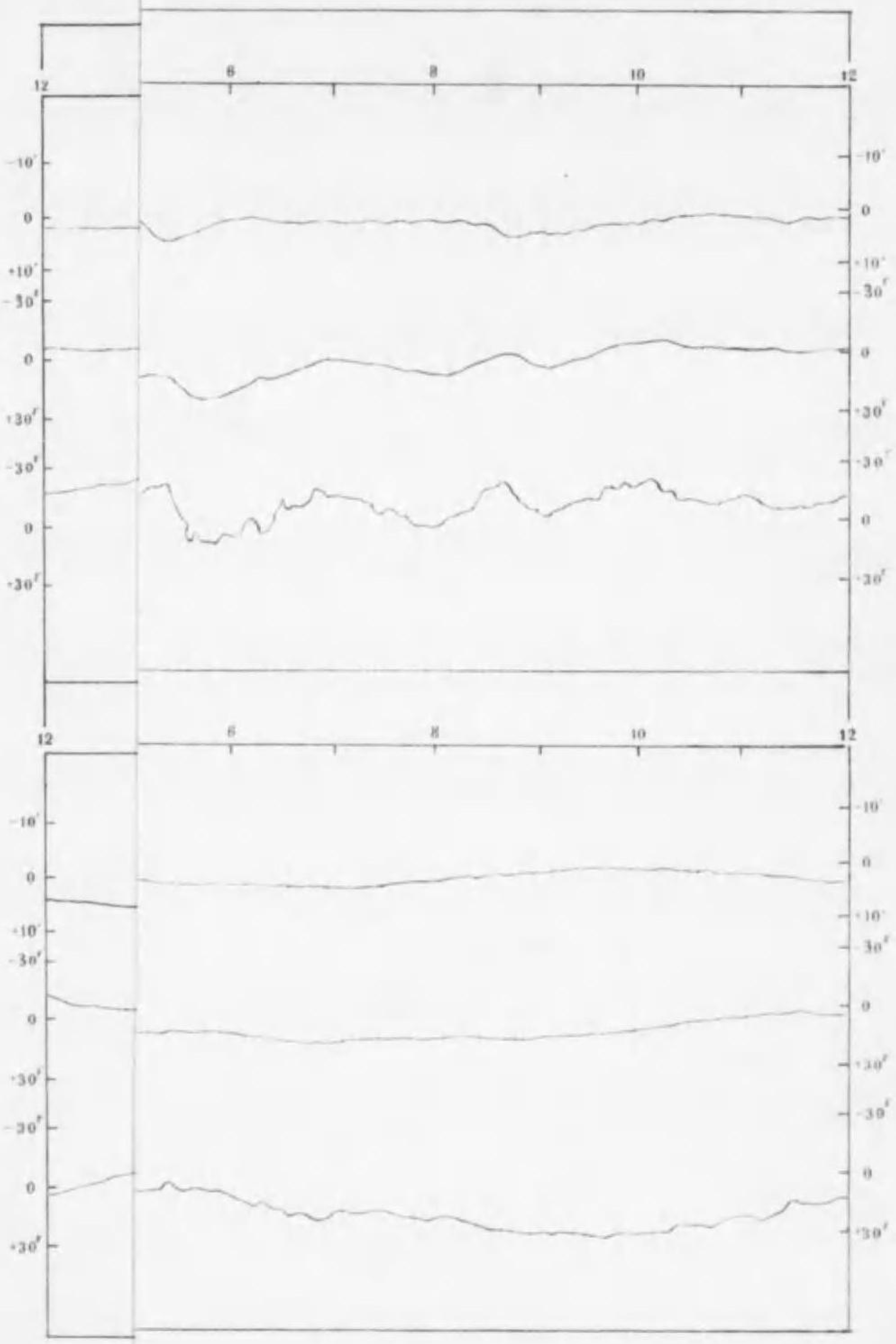
HORIZONTALINTENSITY.

Montn	p_0	p_1	q_1	p_2	q_2	p_3	q_3	p_4	q_4
January	29975.2	−1.48	+1.96	−3.09	+0.63	+3.36	+0.04	−0.78	+0.27
February	962.9	−0.04	+2.25	−4.73	+1.11	+4.47	−0.01	−1.60	+1.14
March	963.9	+0.24	−4.66	−2.70	+4.95	+2.62	−4.46	−0.58	+1.97
April	954.8	−0.70	−6.63	−0.76	+6.84	+0.10	−5.59	+0.88	+2.22
May	959.0	−0.71	−7.87	−0.66	+6.46	+0.38	−4.24	+0.88	+0.78
June	932.7	−1.35	−5.28	+1.92	+4.30	−1.86	−3.58	+1.14	+0.04
July	936.5	+1.73	−6.50	+1.81	+5.01	−1.30	−3.39	+0.22	−0.62
August	942.3	+1.94	−5.93	+2.27	+7.01	−2.57	−4.34	+1.26	−0.38
September	952.5	+1.99	−6.35	+2.24	+10.40	−1.61	−6.03	+1.43	+0.35
October	946.4	−0.23	−5.91	−1.18	+10.03	−0.24	−5.41	+1.33	+2.80
November	925.2	−3.45	+0.35	−0.37	+3.54	+1.37	−3.17	+0.50	+1.83
December	968.9	−0.86	−1.03	−1.38	+1.92	+2.25	−2.08	−0.75	+1.07
Year	951.7	−0.24	−3.76	−0.55	+5.18	+0.58	−3.52	+0.33	+0.96

VERTICALINTENSITY.

Montn	p_0	p_1	q_1	p_2	q_2	p_3	q_3	p_4	q_4
January	34395.8	+8.29	−8.87	−3.82	+4.35	+2.09	−2.23	−0.67	+1.15
February	375.1	+13.09	−11.44	−6.63	+4.01	+3.30	−2.80	−0.18	+2.07
March	421.6	+10.60	−5.74	−4.72	+3.49	+2.45	−3.56	−0.67	+1.93
April	405.3	+5.67	−1.10	−2.18	+2.16	+0.28	−2.86	+0.20	+1.45
May	362.0	+3.60	+2.42	−1.53	+4.60	−0.66	−3.30	+0.80	+0.92
June	356.4	+4.83	−0.67	−1.20	+2.54	−1.26	−2.09	+1.63	−0.47
July	367.8	+4.32	−4.85	−0.95	+3.00	−0.40	−2.09	−0.45	+0.12
August	354.6	+5.45	−4.92	+0.49	+3.68	−1.74	−2.61	+0.82	+0.17
September	317.9	+2.11	−2.43	+4.86	+8.49	−4.72	−7.17	+1.88	+2.29
October	361.4	+3.32	−1.40	−0.39	+3.48	−0.49	−3.10	+0.32	+1.94
November	382.3	+6.70	−5.06	−2.63	+2.65	+0.96	−2.94	−0.12	+1.39
December	411.6	+5.82	−5.56	−2.44	+3.00	+1.12	−2.52	−0.48	+1.39
Year	376.0	+6.14	−4.13	−1.76	+3.79	+0.07	−3.11	+0.26	+1.19

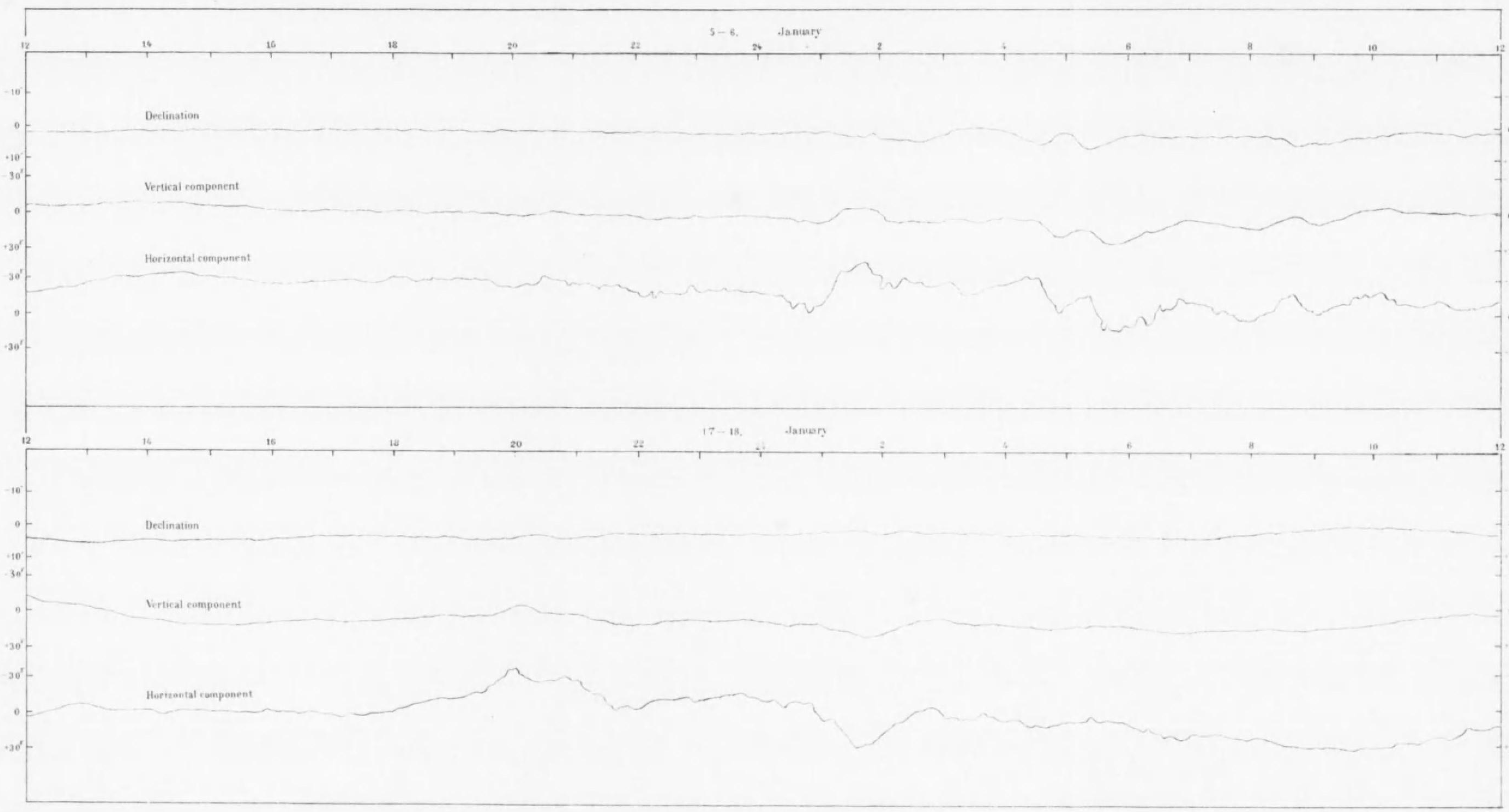
PLATE I.



PRINCIPAL MAGNETIC DISTURBANCES

RECORDED AT THE CENTRAL METEOROLOGICAL OBSERVATORY, TOKIO, 1905.

PLATE I.

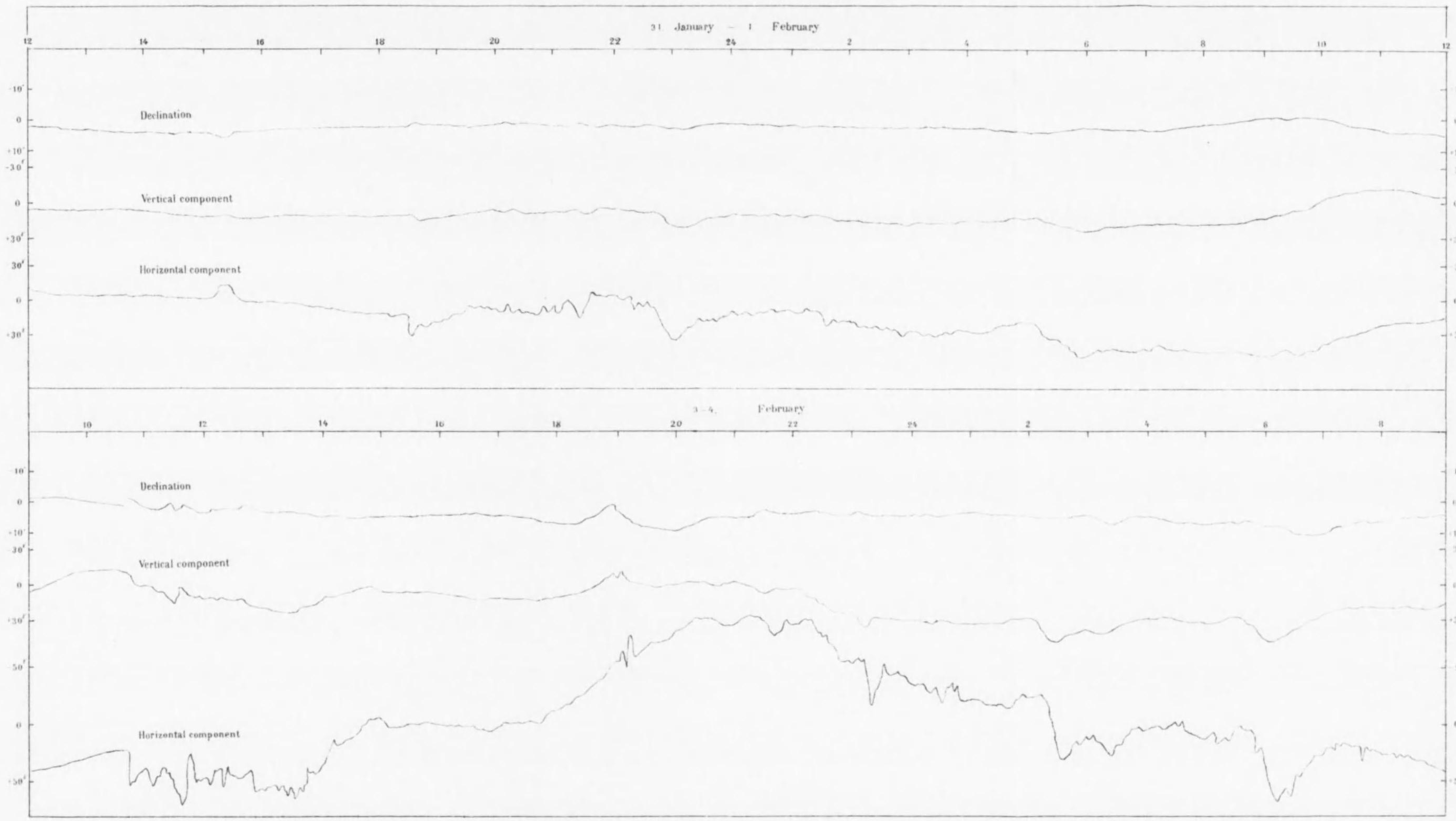


$\gamma = 10^{-5}$ C.G.S.

PRINCIPAL MAGNETIC DISTURBANCES

RECORDED AT THE CENTRAL METEOROLOGICAL OBSERVATORY, TOKIO, 1905.

PLATE II.

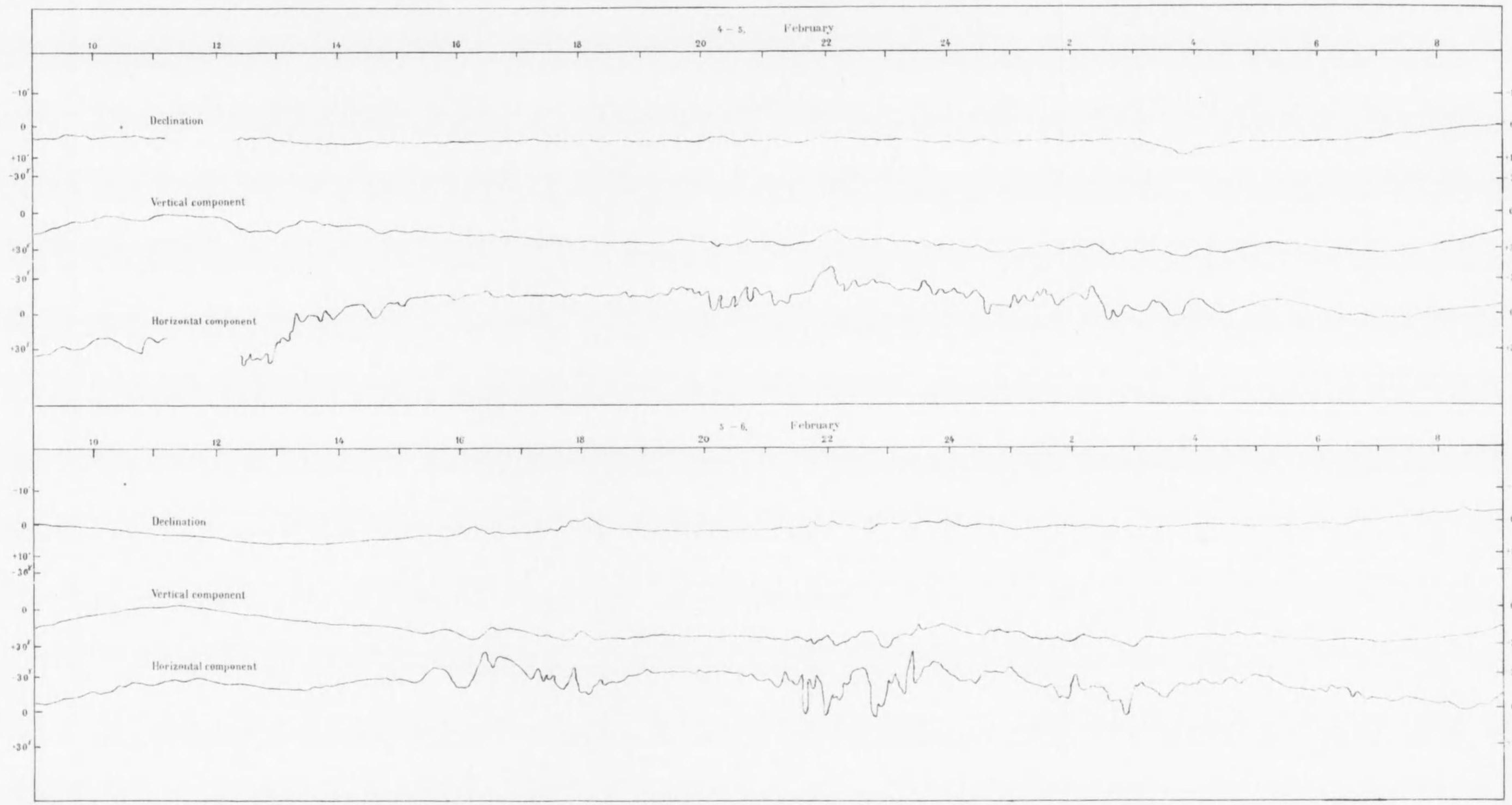


$\gamma = 10^{-5}$ C.G.S.

PRINCIPAL MAGNETIC DISTURBANCES

RECORDED AT THE CENTRAL METEOROLOGICAL OBSERVATORY, TOKIO, 1905.

PLATE III.

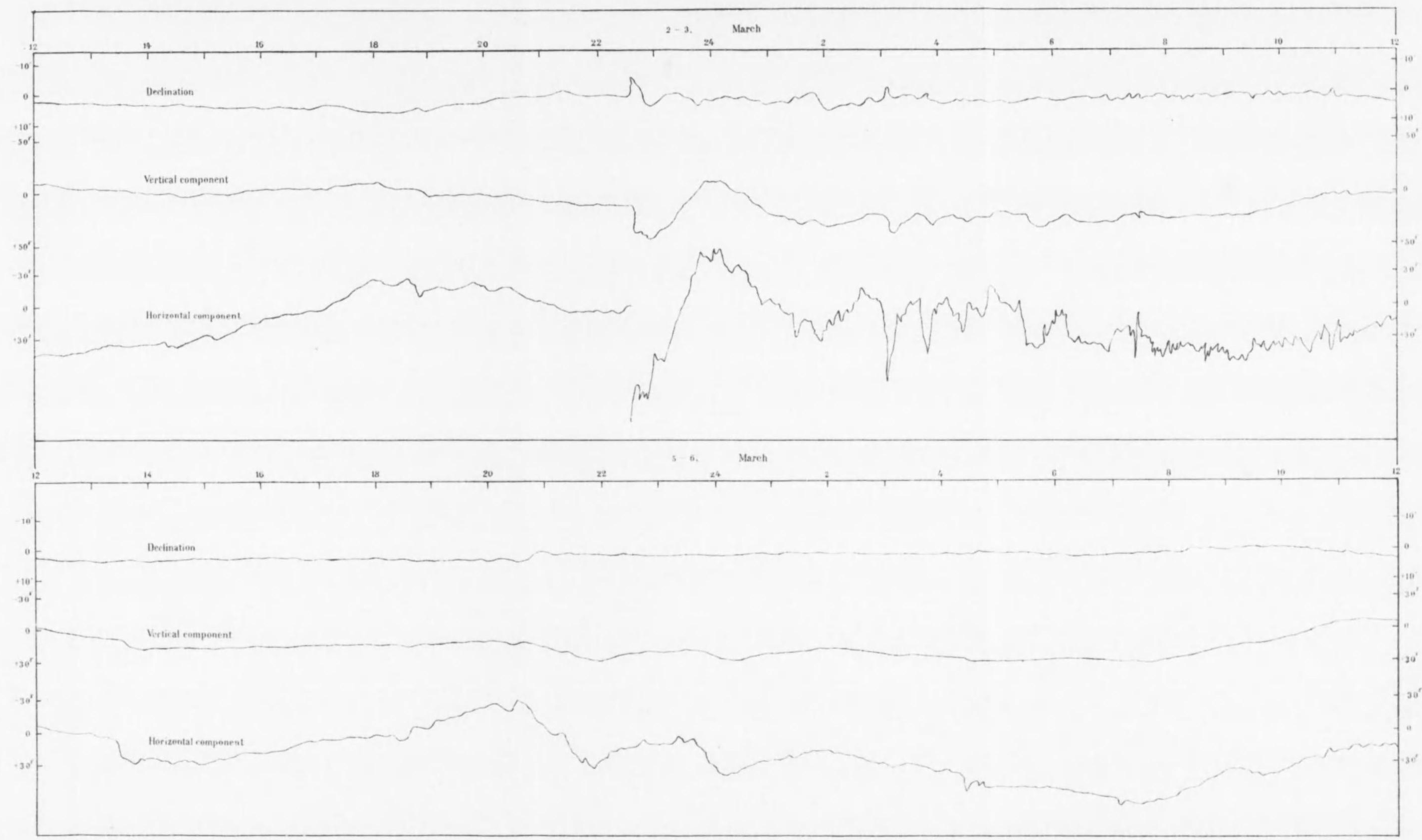


$\gamma = 10^{-5}$ C.G.S.

PRINCIPAL MAGNETIC DISTURBANCES

RECORDED AT THE CENTRAL METEOROLOGICAL OBSERVATORY, TOKIO, 1905.

PLATE IV.

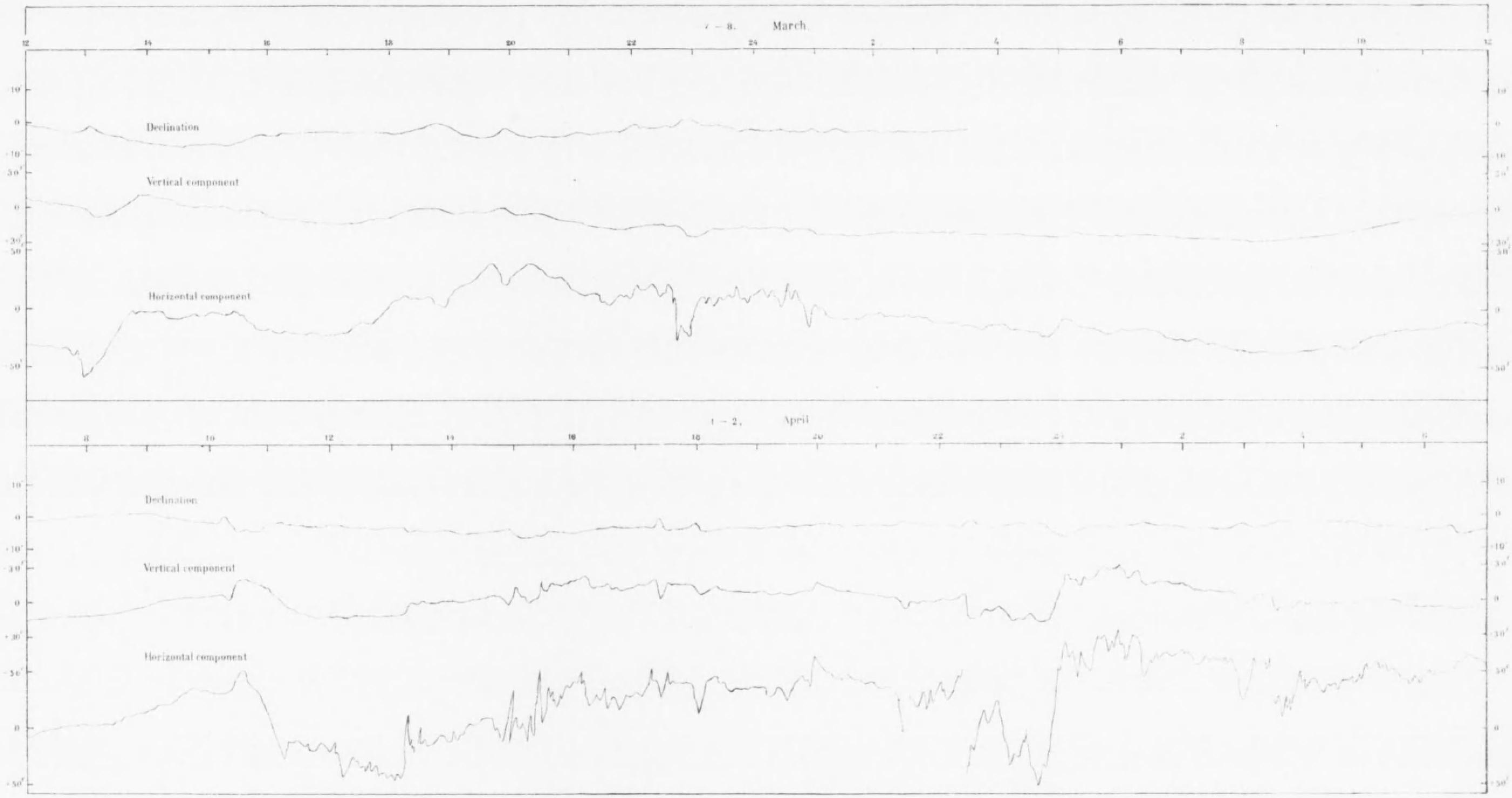


$\gamma = 10^{-5}$ C.G.S.

PRINCIPAL MAGNETIC DISTURBANCES

RECORDED AT THE CENTRAL METEOROLOGICAL OBSERVATORY, TOKIO, 1905.

PLATE V.

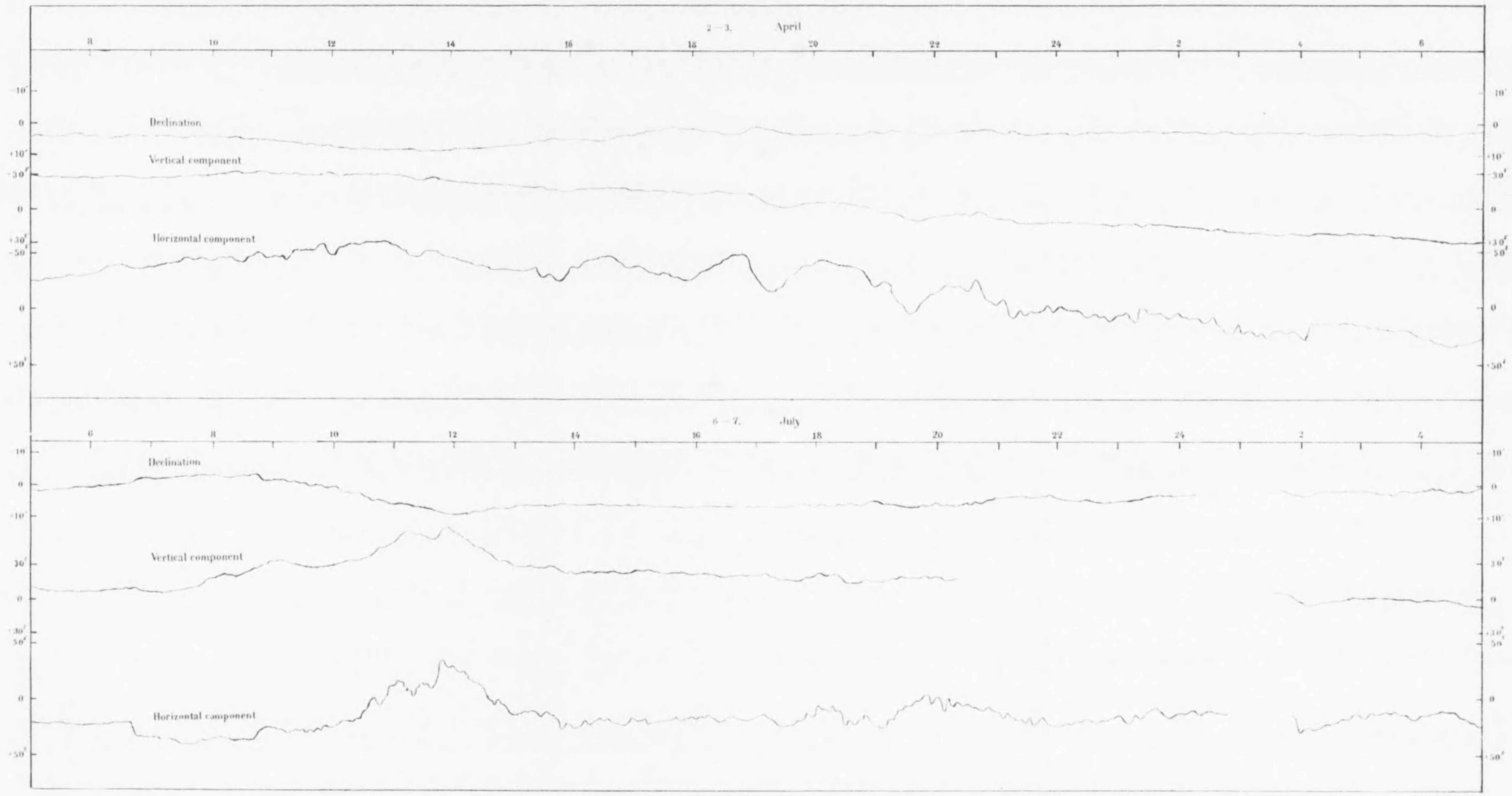


$\gamma = 10^{-5}$ C.G.S.

PRINCIPAL MAGNETIC DISTURBANCES

RECORDED AT THE CENTRAL METEOROLOGICAL OBSERVATORY, TOKIO, 1905.

PLATE VI.

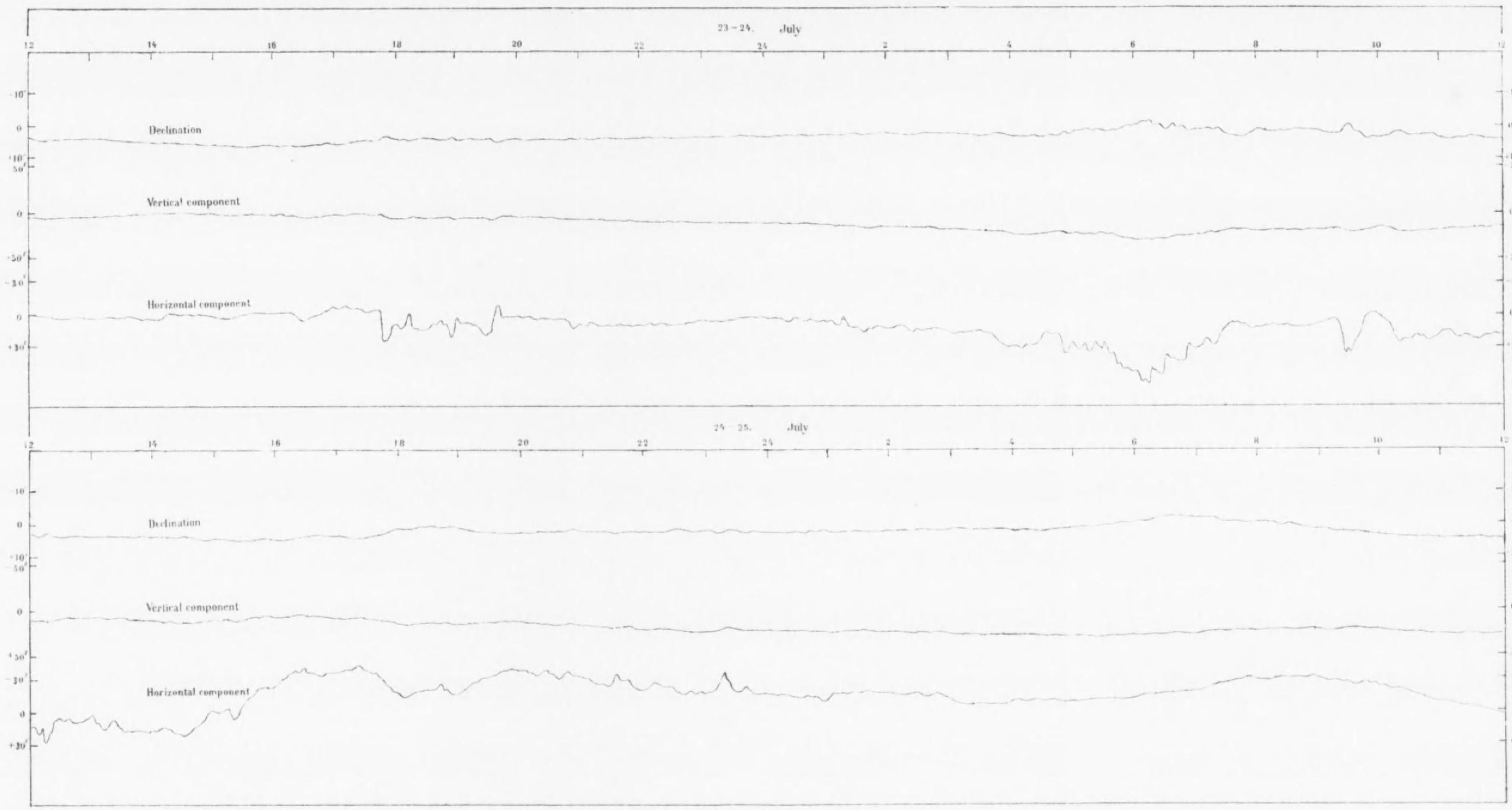


$\gamma = 10^{-5}$ C.G.S.

PRINCIPAL MAGNETIC DISTURBANCES

RECORDED AT THE CENTRAL METEOROLOGICAL OBSERVATORY, TOKIO, 1905.

PLATE VII.

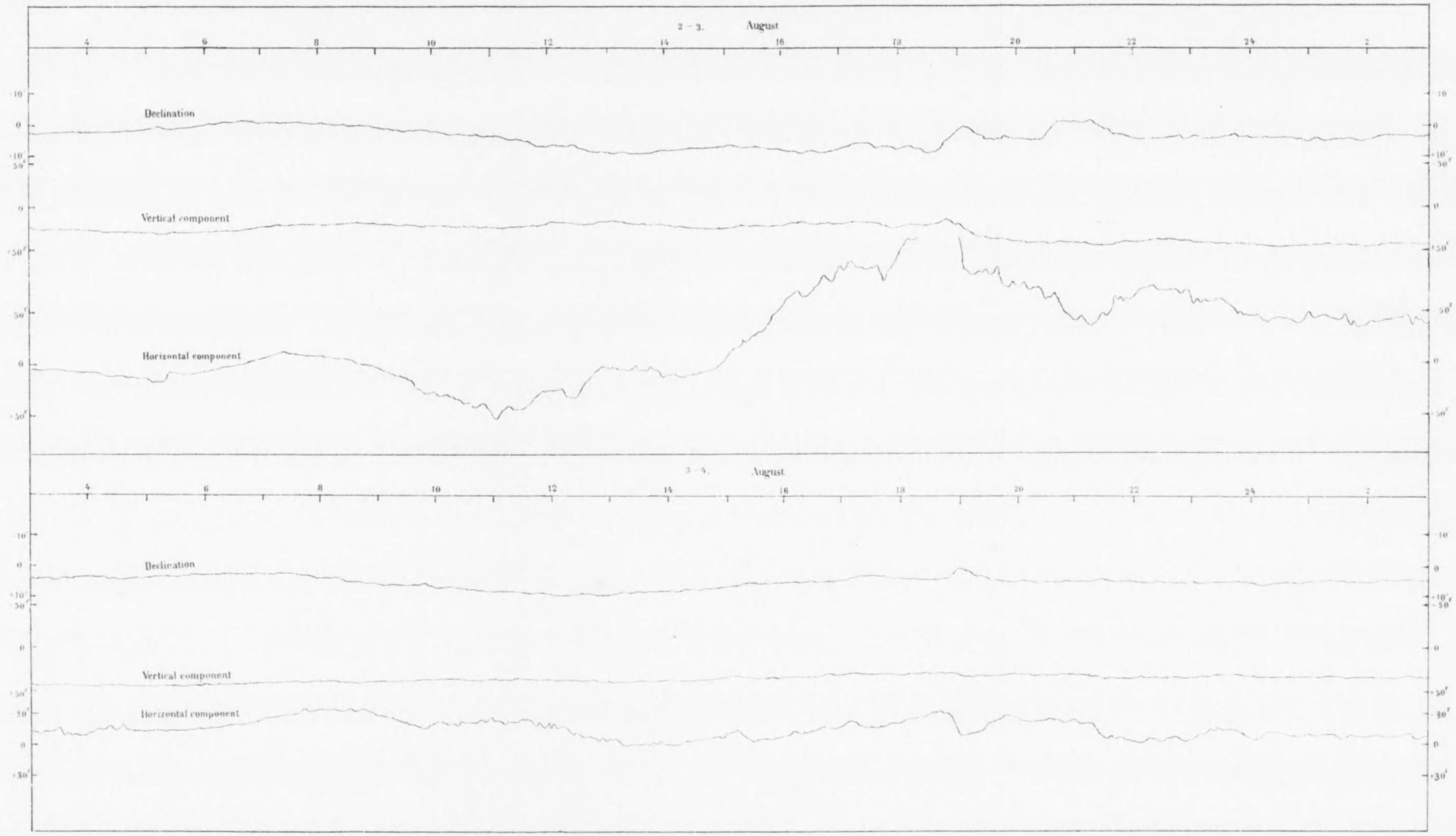


$\gamma = 10^{-5}$ C.G.S.

PRINCIPAL MAGNETIC DISTURBANCES

RECORDED AT THE CENTRAL METEOROLOGICAL OBSERVATORY, TOKIO, 1905.

PLATE VIII.

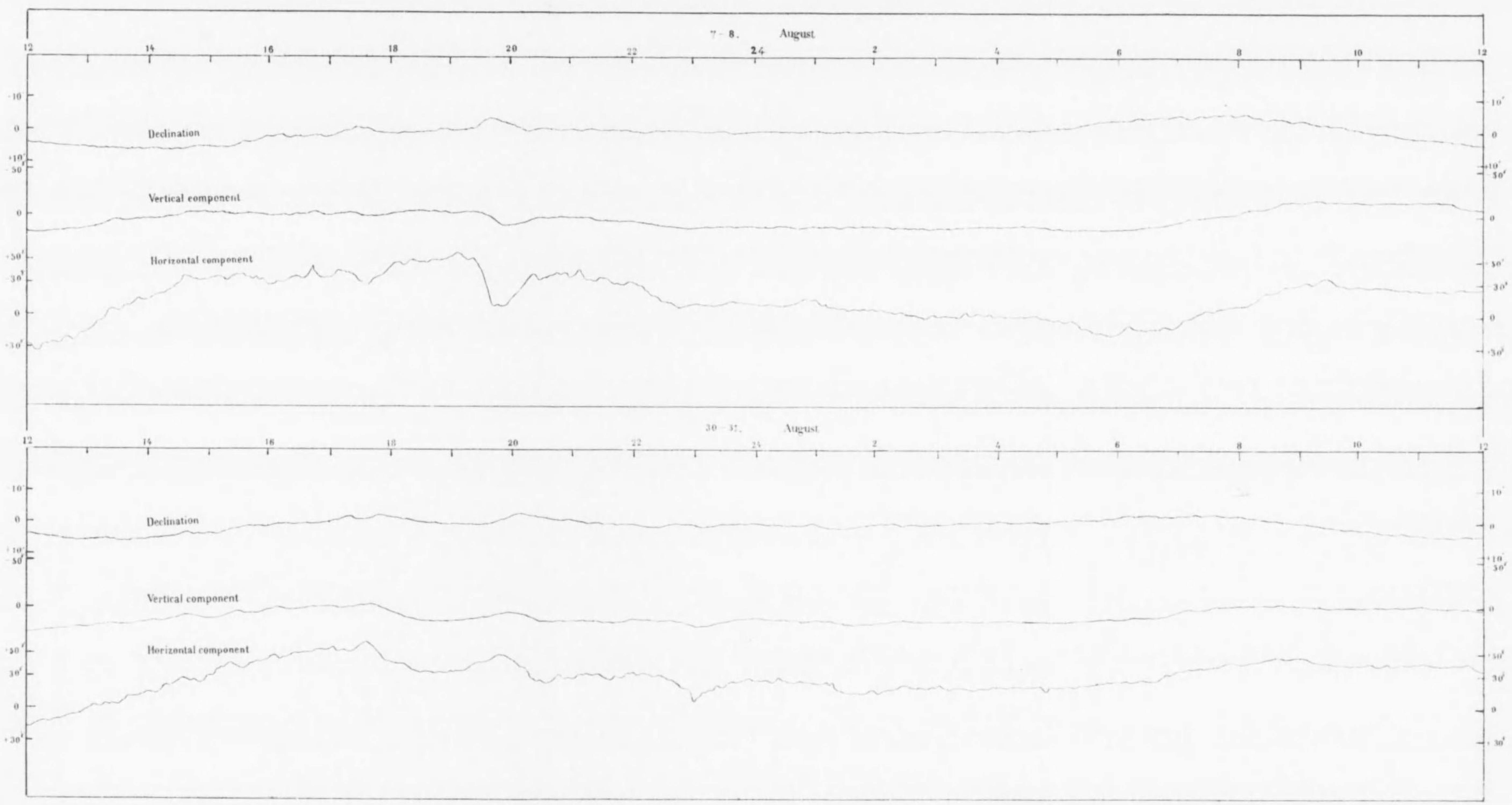


γ = 10⁻⁵ C.G.S.

PRINCIPAL MAGNETIC DISTURBANCES

RECORDED AT THE CENTRAL METEOROLOGICAL OBSERVATORY, TOKIO, 1905.

PLATE IX.

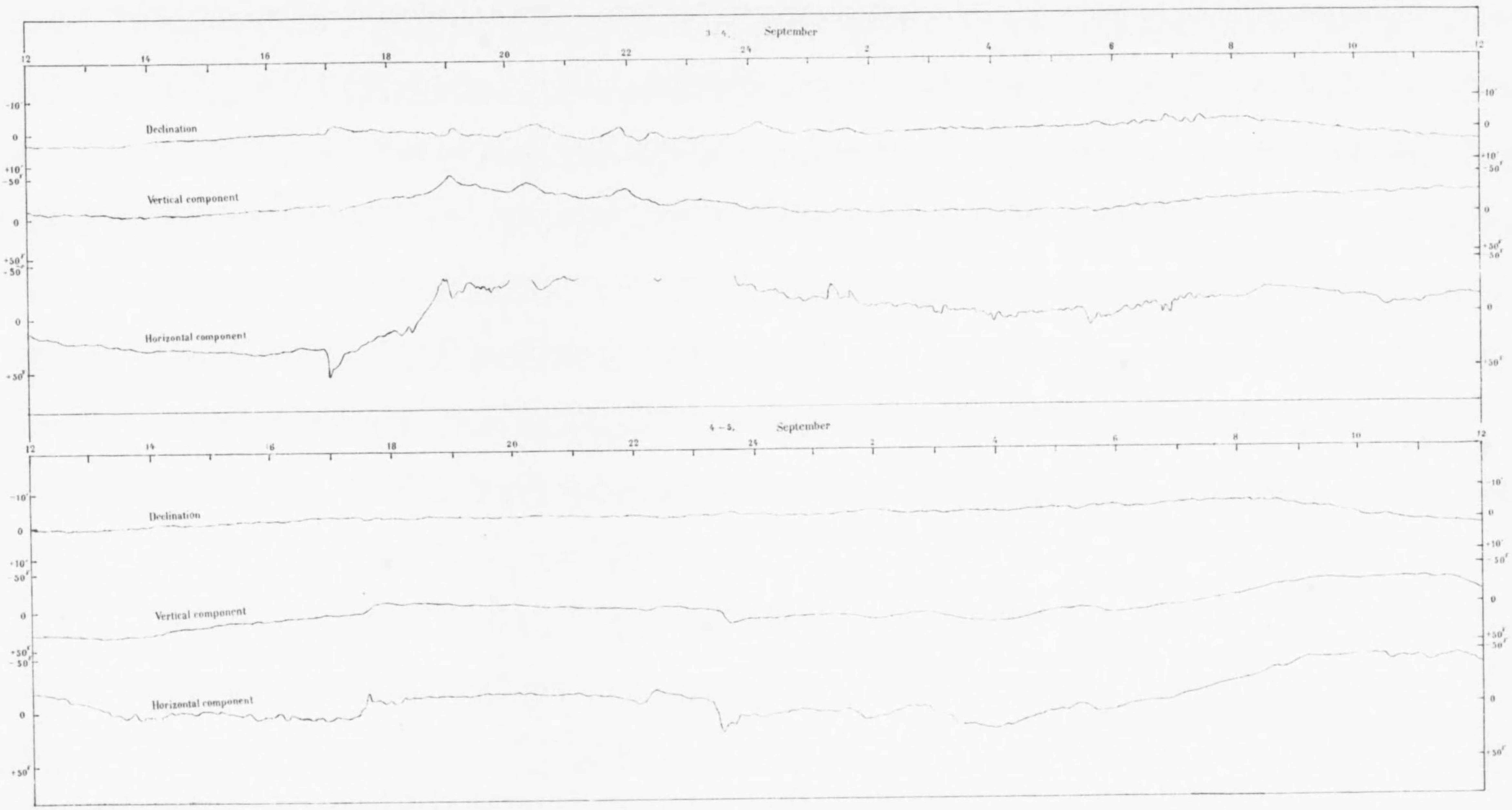


$\gamma = 10^{-5}$ C.G.S.

PRINCIPAL MAGNETIC DISTURBANCES

RECORDED AT THE CENTRAL METEOROLOGICAL OBSERVATORY, TOKIO, 1905.

PLATE X.

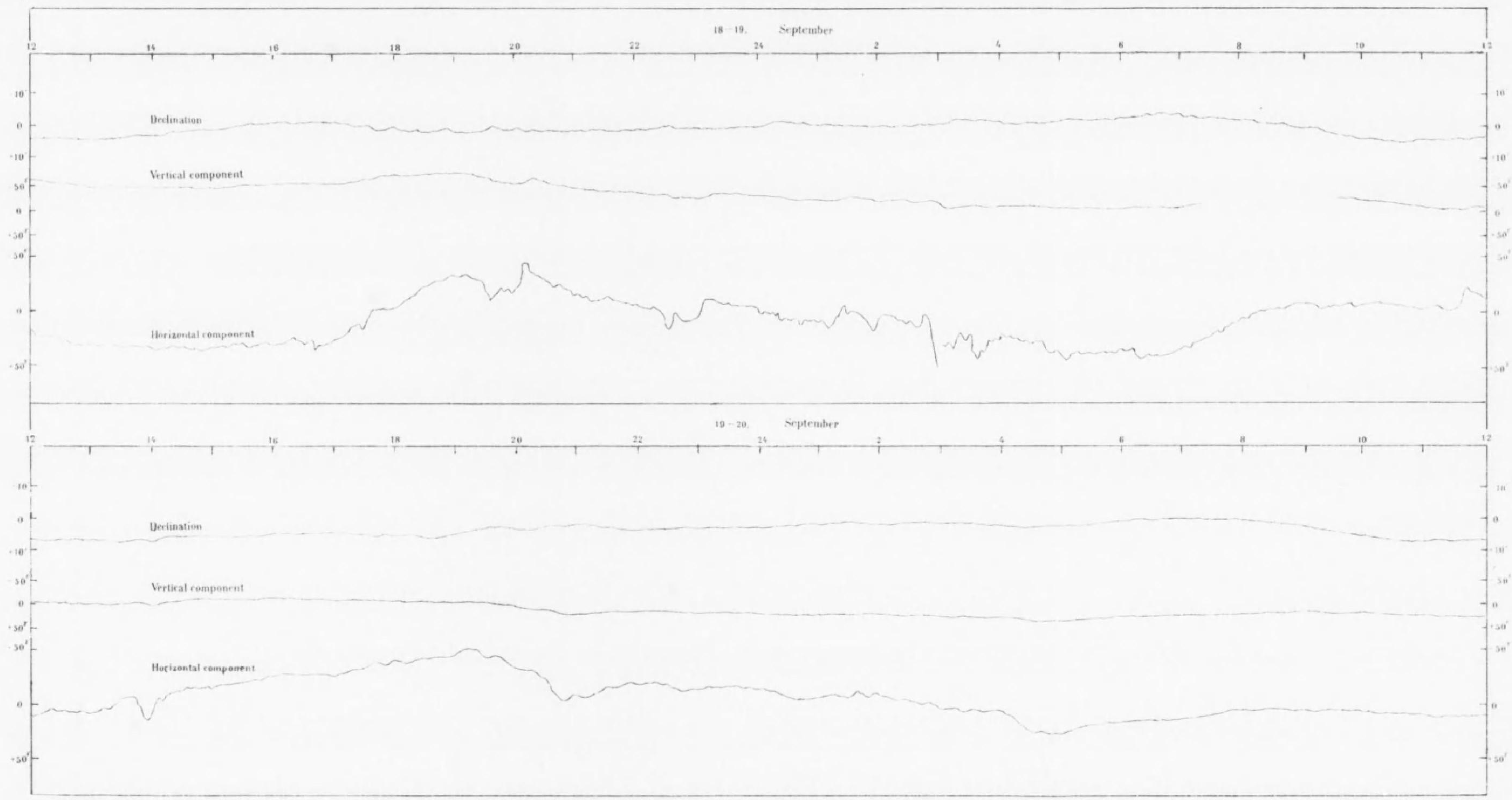


$\gamma = 10^{-5}$ C.G.S.

PRINCIPAL MAGNETIC DISTURBANCES

RECORDED AT THE CENTRAL METEOROLOGICAL OBSERVATORY, TOKIO, 1905.

PLATE XI.

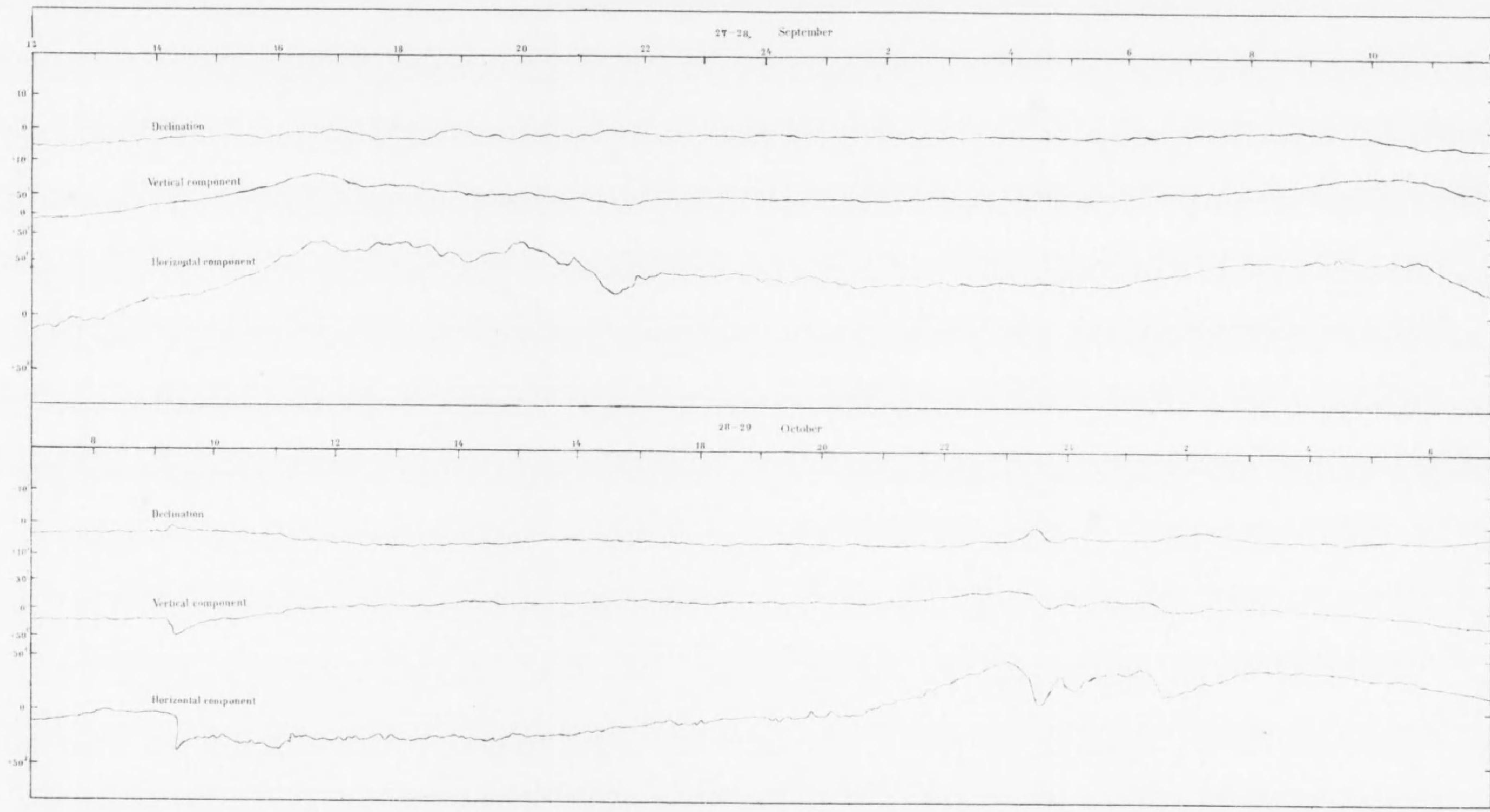


$\gamma = 10^{-5}$ C.G.S.

PRINCIPAL MAGNETIC DISTURBANCES

RECORDED AT THE CENTRAL METEOROLOGICAL OBSERVATORY, TOKIO, 1905.

PLATE XII.

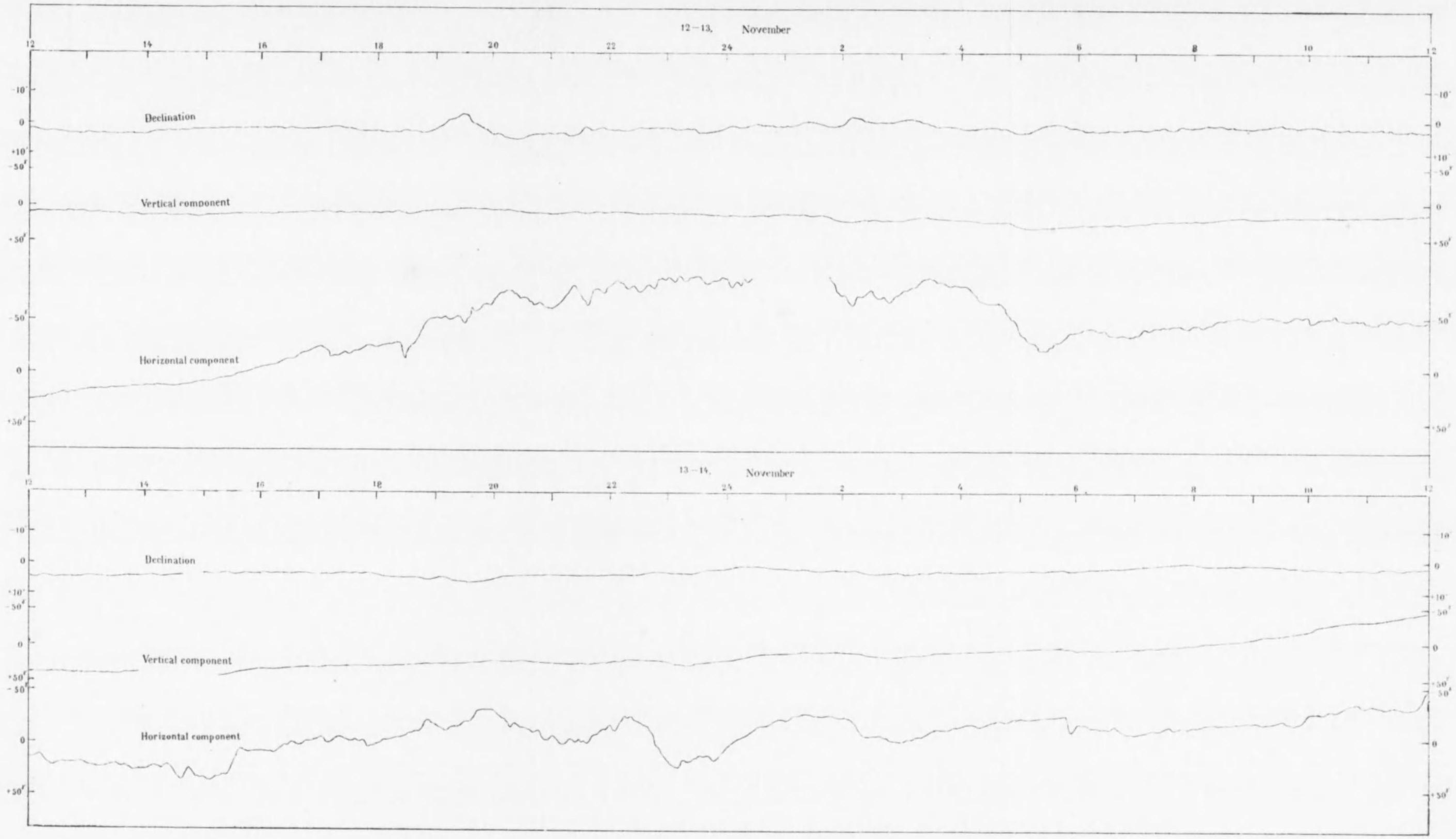


$1^{\gamma} = 10^{-5}$ C.G.S.

PRINCIPAL MAGNETIC DISTURBANCES

RECORDED AT THE CENTRAL METEOROLOGICAL OBSERVATORY, TOKIO, 1905.

PLATE XIII.

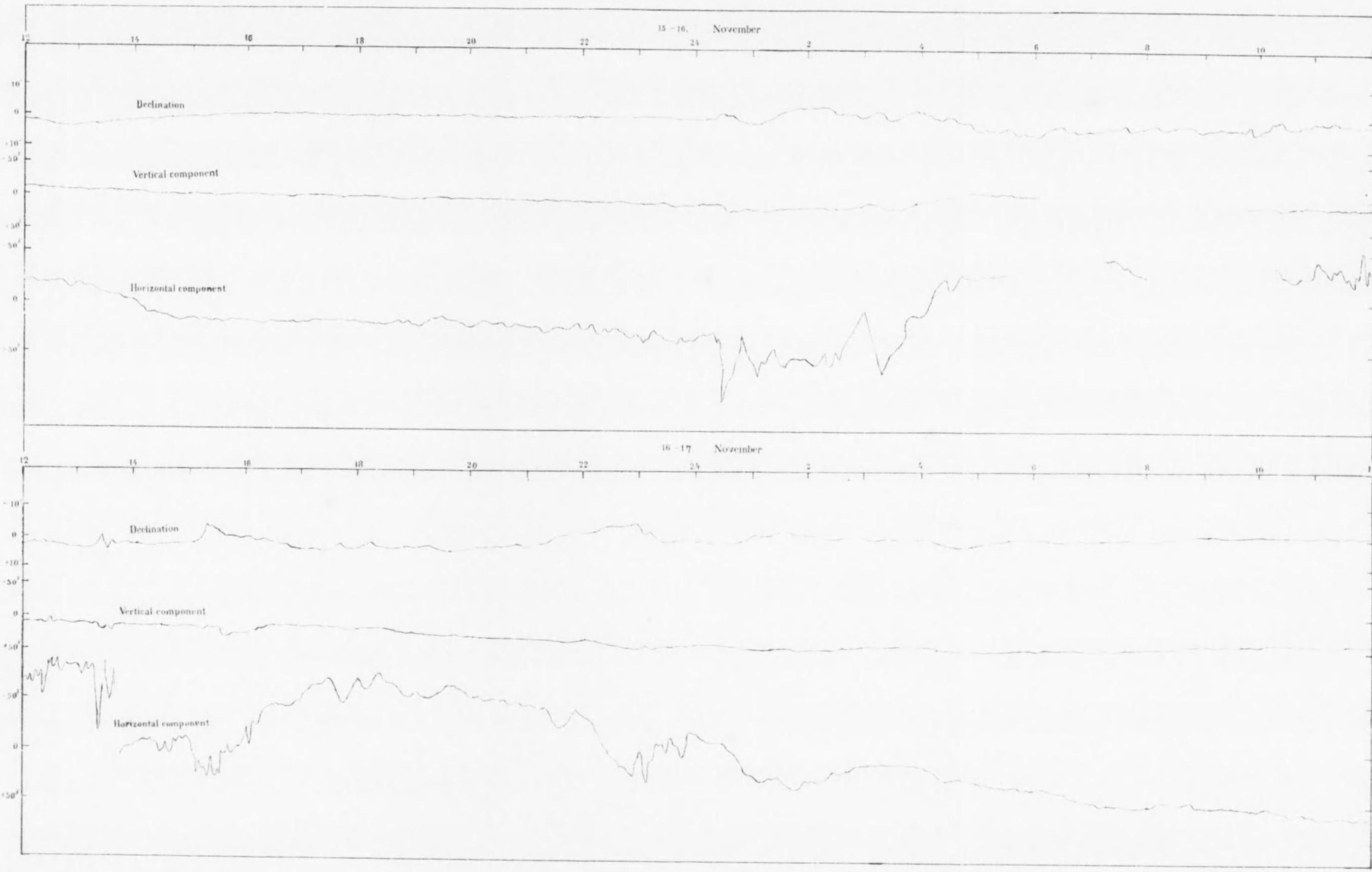


$\gamma = 10^{-5}$ C.G.S.

PRINCIPAL MAGNETIC DISTURBANCES

RECORDED AT THE CENTRAL METEOROLOGICAL OBSERVATORY, TOKIO, 1905.

PLATE XIV.

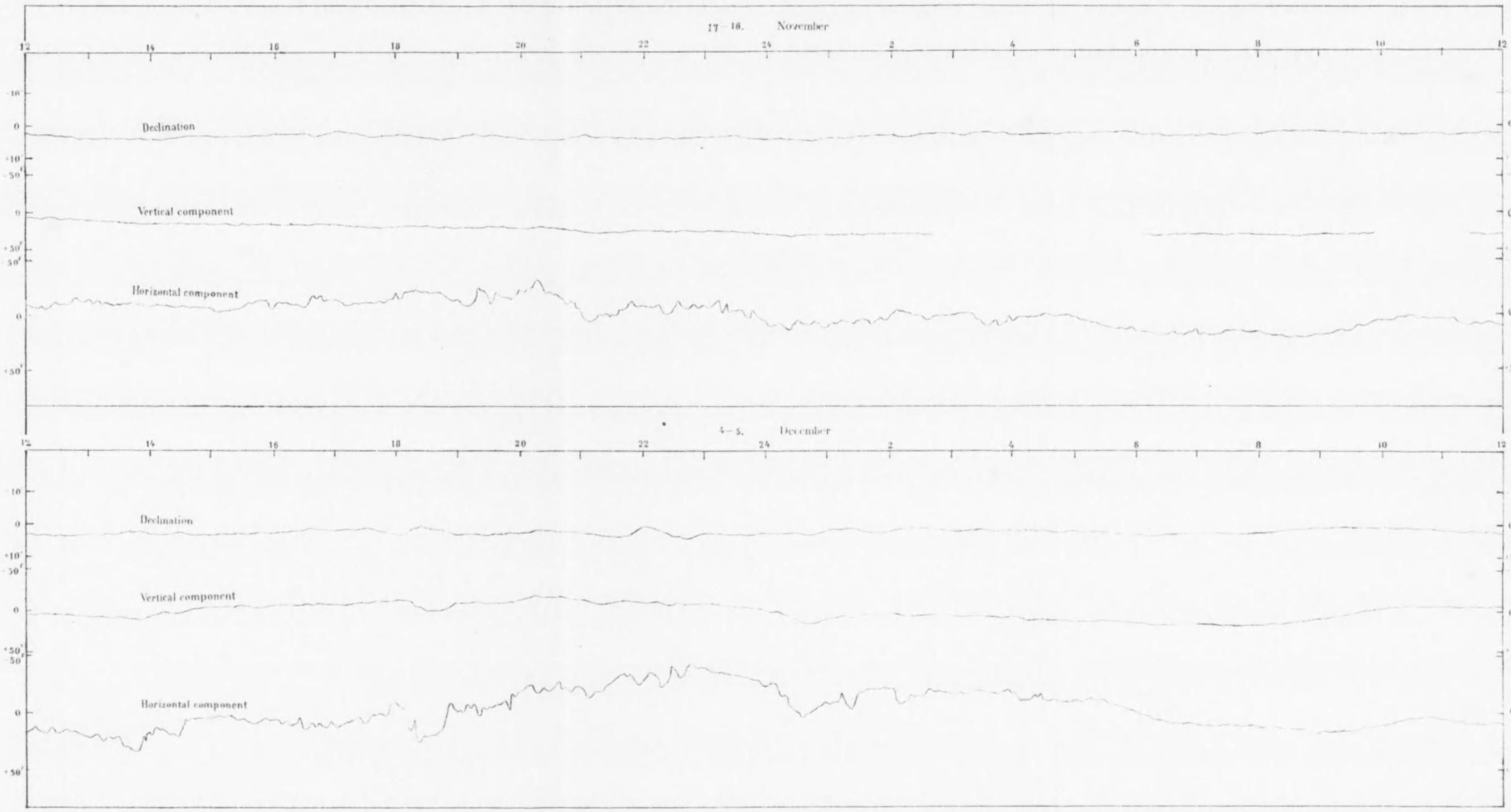


$\gamma = 10^{-5}$ C.G.S.

PRINCIPAL MAGNETIC DISTURBANCES

RECORDED AT THE CENTRAL METEOROLOGICAL OBSERVATORY, TOKIO, 1905.

PLATE XV.



$\gamma = 10^{-5}$ C.G.S.

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