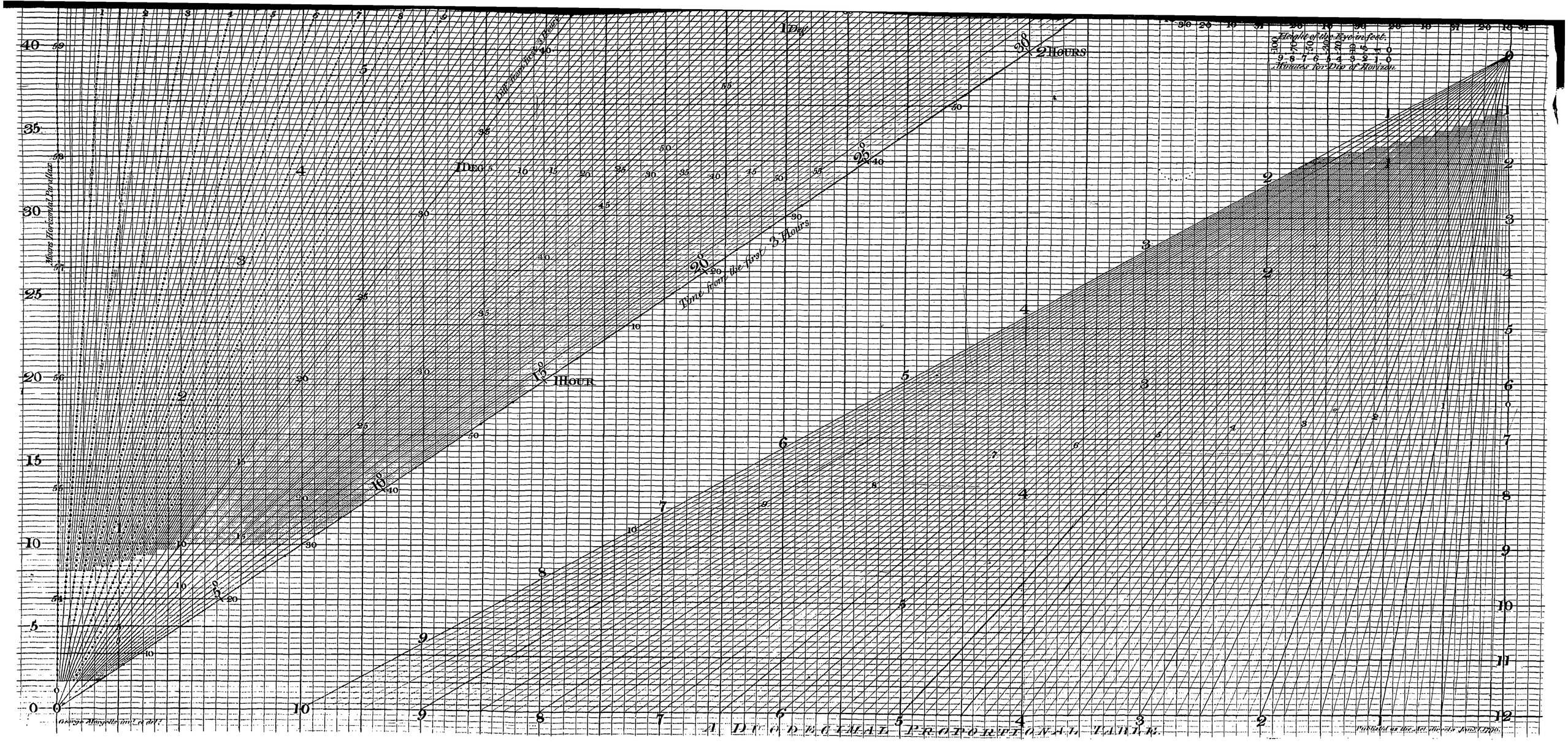
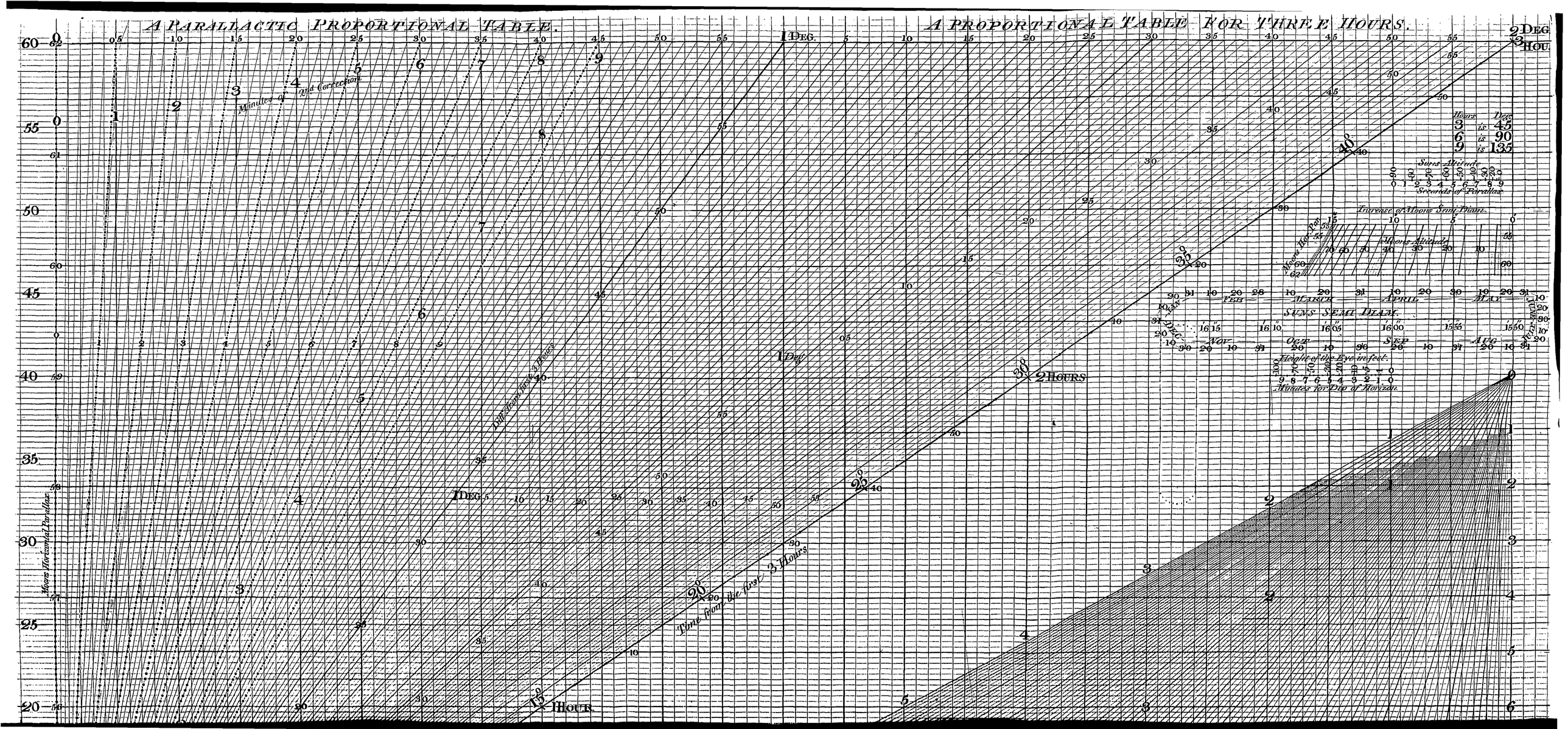

Height of the Eye in feet.
Minutes for Dip of Horizon
Moon's Horizontal Parallax
Time from the first 3 Hours
1 Deg
2 Hours
1 Hour
A DUODECIMAL PROPORTIONAL TABLE.
George Margetts inv. et del.
Published as the Act directs Jan. 1 1796.


A PARALLACTIC PROPORTIONAL TABLE.
A PROPORTIONAL TABLE FOR THREE HOURS.
Minutes of 2nd Correction
Diff. from first 3 Hours
Time from the first 3 Hours
Moons Horizontal Parallax
1 DEG.
2 DEG
1 DEG
2 HOURS
1 HOUR
Hours Deg.
3 is 45
6 is 90
9 is 135
Suns Altitude
Seconds of Parallax
Increase of Moons Semi Diam.
Moons Altitude
Moons Hor. Par.
SUNS SEMI DIAM.
JAN FEB MARCH APRIL MAY JUNE JULY
DEC NOV OCT SEP AUG
Height of the Eye in feet.
Minutes for Dip of Horizon

W Walker 1790

# A Margetts's Longitude Tables

for Correcting the Effect of

# PARALLAX and REFRACTION,

*On the Observed Distance taken between the*

## *MOON and the SUN, or a fixed STAR,*

*Whereby the True Distance is Accurately Obtained,*

*and the Corresponding Time at Greenwich*

FOUND BY

# *INSPECTION.*

---

*London.*

*Printed for the Author; N°42. Penton Street, Islington;*

*and Sold by M.r Elmsly, Bookseller in the Strand, and Mess.rs Gilbert & Wright, Opticians, Leadenhall Street;*

*where the Author will attend in order to give a full Explanation of his Method of finding the Longitude.*

TO

HIS ROYAL HIGHNESS

# PRINCE WILLIAM HENRY,

DUKE OF CLARENCE AND ST. ANDREWS IN GREAT BRITAIN,

EARL OF MUNSTER IN IRELAND,

KNIGHT OF THE MOST NOBLE ORDERS

OF THE

GARTER AND THISTLE,

THIS

NEW METHOD OF WORKING

# LUNAR OBSERVATIONS

FOR

FINDING THE LONGITUDE AT SEA,

AND

IMPROVEMENT OF NAVIGATION,

IS, BY PERMISSION, DEDICATED BY

HIS ROYAL HIGHNESS's

MOST OBEDIENT AND OBLIGED

HUMBLE SERVANT,

*No.* 42, *Penton Street, Iſlington,*
*May* 17, 1790.

GEORGE MARGETTS.

# A SMALL PROPORTIONAL TABLE

# INTRODUCTION.

THESE Tables, with the Nautical Almanac, contain every thing requiſite for finding the Longitude at Sea by Lunar Obſervations. In this method, the angular diſtance between the neareſt limbs of the Sun and Moon, or between the Moon's limb and a fixed Star, muſt be carefully meaſured with a good Hadley's Quadrant or Sextant, and at the ſame time, the apparent altitude of both the objects muſt be taken, if it can be done conveniently. The exact time when the Moon's limb is brought in contact with the Sun or a Star, muſt alſo be carefully noted by a watch, previouſly regulated to the time at the ſhip, unleſs the altitude of the Sun or Star, be taken at the ſame inſtant that the diſtance is obſerved, and in a proper ſituation for finding the apparent time at the ſhip.

But theſe obſervations being made from the ſurface of the earth, and not from the earth's center, the diſtance ſo obſerved will be conſiderably affected by the Moon's Parallax; it will alſo be affected by the refraction of the atmoſphere; and on theſe two accounts the Moon always appears below her true place. But the Sun and Stars always appear above their true place in the heavens, conſequently the obſerved diſtance will at ſome times be much greater, and at other times much leſs than the true diſtance of the objects, according to their ſituation in the heavens.

Therefore as the true diſtance of the objects muſt be accurately obtained, in order to aſcertain the longitude of the ſhip: to perform this Problem by calculation is at preſent one of the moſt difficult operations that Navigation labours under.

Theſe Tables are therefore intended to ſave the time and trouble of a long numerical calculation; for it often happens, that the other eſſential duties on ſhip-board do not leave time for performing ſuch difficult operations; whereas the navigator having made the neceſſary obſervations, he may, by immediate inſpection, in theſe Tables find the correction neceſſary to be applied to his obſerved diſtance, in order to reduce it to the true diſtance of the centers.

The Author, however, does not pretend by theſe Tables to determine the Longitude more exactly than it may be done by a rigorous calculation; but the eaſe and correctneſs with which the effects of Parallax and Refraction may be obtained by them, will, he hopes, recommend his Tables to the attention of the Public; for it is well known that the moſt able and expert calculators themſelves are frequently liable to make miſtakes in long calculations, which, of courſe, deranges the whole operation; ſo that even to them theſe Tables will be of conſiderable uſe, were it only for a check on their calculating the effect of Parallax and Refraction.

By theſe Tables the operation may be performed in all caſes with ſuch great exactneſs, as to render the trouble of calculation entirely unneceſſary, unleſs the Moon's place was accurately

known to a Second, and the Sextant capable of meaſuring an angle to a much greater degree of nicety than it will do at preſent; for the greateſt error which can ever ariſe in the reſult given by theſe Tables, will never amount to an angle large enough to be diſtinguiſhed in reading off from the moſt accurate inſtrument; ſo that if there ſhould be an error of 6 or 8, or even 10 Seconds, yet, the eaſe and expedition with which Lunar diſtances are cleared from the effects of Parallax and Refraction, by this Method, will enable the navigator to make and compute a greater number of obſervations, which will naturally tend to correct each other. Beſides, by theſe Tables a perſon of the moſt ordinary capacity may be fully inſtructed, in the ſpace of little more than an hour, ſo as to be capable of going through the whole proceſs; for, although it may be neceſſary to uſe different methods of calculation, in order for the learner to ſee the near agreement in the reſults, and to underſtand the reaſon of the different corrections neceſſary to be applied, yet, in moſt of the methods of ſolving this problem hitherto made public, there is not any great light thrown on the nature of the proceſs, ſo as to enable him clearly to underſtand why he is to perform this or that part of the operation.

It is to be obſerved, that theſe Tables are conſtructed for the apparent diſtances, and the apparent altitudes, of the centers, of the heavenly bodies, whoſe diſtances are obſerved, and that therefore, the obſervation having been made of their limbs, and not of their centers, a correction muſt be made in order to obtain the apparent diſtance, and the apparent altitudes of the centers, before the Tables can be uſed for clearing the diſtance from the effects of parallax and refraction.

This correction is equally neceſſary in every other method of ſolving this problem, whether by thoſe recommended in the Nautical Almanac, and Requiſite Tables; or by the large book of Tables of Parallax and Refraction.

If the diſtance between the neareſt limbs of the Sun and Moon be obſerved, the two ſemi-diameters, corrected for the time of the obſervation, muſt be added to the diſtance on the Quadrant, or Sextant, and the ſum is the apparent diſtance of the centers: but the Moon's ſemi-diameter, in the Nautical Almanac, muſt be increaſed by the number of ſeconds which are found againſt her altitude and horizontal parallax, in a ſmall table made for that purpoſe.

If the diſtance of a Star from the Moon's neareſt limb be obſerved, the Star having no viſible diameter, the Moon's ſemi-diameter alone, increaſed as above directed, muſt be added to the obſerved diſtance; but if the diſtance of the Star be obſerved from the Moon's remote limb, the Moon's ſemi-diameter muſt be ſubtracted from the diſtance on the Sextant, and the reſult will be the apparent diſtance of the centers.

To the altitude of the Sun, Moon, or Star on the Quadrant, a correction muſt alſo be made for the height of the eye above the ſurface of the water; this correction is called the dip of the horizon, and is expreſſed in a ſmall Table, conſtructed for that purpoſe, to every height of the eye as far as one hundred feet, which is probably more than will ever be required. The altitudes of the Sun and Moon muſt alſo be corrected for their ſemi-diameters.

If the altitude of the Sun's lower limb be obſerved, the difference between the dip of the horizon and the Sun's ſemi-diameter muſt be added to his altitude on the Quadrant; but if the altitude of his upper limb be obſerved, both his ſemi-diameter and the dip muſt be ſubtracted from the obſerved altitude; but no allowance is to be made for refraction, as the Tables are adapted to the apparent altitudes.

If the altitude of the Moon be obſerved, the allowance to be made is the ſame as for the altitude of the Sun, that is, it muſt be corrected, both for the height of the eye and ſemi-diameter, increaſed as has been directed above.

If a Star's altitude be obſerved, it having no viſible diameter, the only correction to be made is to ſubtract the dip from the obſerved altitude of the Star, according to the height of the eye above the ſurface of the water.

Having thus reduced the obſervations to the apparent diſtance and altitudes of the centers, the obſerver is prepared to uſe the Tables.

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## DESCRIPTION *and* USE *of the* TABLES.

### *Of the Tables for ſhewing the Correction to be applied for the effect of Parallax and Refraction on Lunar Obſervations.*

Theſe are a ſet of Linear Tables, made for every degree of Diſtance, between the Sun and Moon, or between the Moon and a fixed Star, from 20 to 120 degrees of diſtance, and are engraved on upwards of 70 Copper-plates.

The largeſt figures or number on each plate are the degrees of apparent diſtance between the centers of the Moon, and Sun, or Star, for which that plate gives the correction; each plate from 20 to 59 degrees contains one degree of diſtance; and from 60 to 90, each plate contains two degrees; but they have no connection with each other. The top degrees continue up to 90, and the degrees at the bottom go back from 91 to 120 degrees of diſtance.

The perpendicular lines, numbered at the top and bottom of each plate, repreſent the degrees of the Moon's apparent altitude, increaſing from 5 degrees at the right hand, to 90 degrees of altitude at the left hand of the Tables.

The oblique curved lines repreſent the degrees of the Sun or Star's apparent altitude, increaſing from 5 degrees, which is always the loweſt oblique curved line, to 90 degrees of altitude, and are numbered on every tenth line, in the body of the Table, with their proper degrees of altitude.

The horizontal lines, numbered in large figures round the left hand boundary of the curved lines, and alſo in ſome of the plates with ſmaller figures in the margin at the ſides, expreſs minutes of correction: theſe muſt always be ſubtracted from the apparent diſtance of the centers, if the altitudes of the Moon, and the Sun, or Star, interſect each other in the upper part of any degree of diſtance; but if the point of interſection fall below the line marked O, (which is the place where the effect changes from — to +) the correction muſt always be added to the apparent diſtance of the centers. This correction is called the firſt arc, and corrects or clears the diſtance from the whole effect of parallax and refraction, for 53 minutes of the Moon's horizontal parallax; the tables being laid down from actual calculations made for that purpoſe.

The dotted curves, which run nearly horizontal in every degree of diſtance, likewiſe repreſent minutes of correction, and are each of them numbered in the body of the Tables, increaſing both ways from O, which is near the line marked O of the firſt correction, up to 9 minutes at the top of every diſtance, but their extent down varies in the different plates, being leſs as the degrees of diſtance increaſe, as far as 85 degrees, where the dotted line marked O is the loweſt in the Tables, but beyond 85 degrees of diſtance it falls below the Table, and is therefore not inſerted. This correction is likewiſe to be ſubtracted from the apparent diſtance, if both the altitudes meet in the upper part of any degree of diſtance; but if the point of interſection fall below the dotted curve marked O, which is the place where this effect changes from — to +, the correction muſt be added to the apparent diſtance, and the reſult will be the true diſtance of the centers, for the moon's horizontal parallax at 62 minutes; this correction is for the effect of parallax alone, and is for the difference between 53, and 62 minutes of the moon's horizontal parallax.

In theſe Tables the effect of the Sun's parallax is not taken into the account, it being ſo ſmall, that the error in the true diſtance on that account will never amount to 9 ſeconds of a degree, even when the Sun has but 5 degrees of altitude and the Moon is then in the ſame vertical circle over him. This correction may be eaſily introduced, as well as that for the change in the ſtate of the atmoſphere; but the error in the longitude ariſing from theſe cauſes will never amount to more than 4 or 5 miles, ſo that I choſe to leave them out rather than to perplex and embarraſs the operation.

*Of the ſmall Parallactic Proportional Table for finding the ſecond Arc.*

In this Table the horizontal lines, numbered on the left hand ſide, repreſent the minutes, &c. of the Moon's horizontal Parallax, each ſpace being 6 ſeconds of a degree. The angular dotted lines in this Table correſpond with the dotted curves in the degrees of diſtance; and the perpendicular lines at the angle of meeting ſhew the correction for the ſecond arc: each of theſe ſpaces are 6 ſeconds of a degree. This Table folds out for uſe at the beginning of the book, next after the title page.

*Of the Sexageſimal Proportional Table for reducing the Corrections to the odd Minutes, of Apparent Diſtance.*

In this Table (which is on the ſame plate with that laſt deſcribed) the horizontal lines, numbered on the right ſide, are for the minutes of apparent diſtance; the angular lines repreſent the change in the correction for a degree of diſtance, and the perpendicular lines at the angle of meeting ſhew the proportional part, this is to be added or ſubtracted, according as the correction is greater or leſs at the next degree.

This Table will likewiſe be found uſeful in working any other ſexageſimal proportion, wherein the angular lines may repreſent either minutes, ſeconds, or whole numbers, and the perpendicular lines will ſhew the proportional part againſt the minutes, &c. for which a proportion may be required, and will always be of the ſame denomination as the angular lines.

*Of the large Three Hour Proportional Table for reducing the Obſervation to the correſponding Time at Greenwich.*

In this Table the angular lines are for the difference between two of the diſtances contained in the Nautical Almanac, one of them being greater, and other leſs, than the true corrected dif-

diſtance of the obſervation; this difference will always fall between the angular lines of one and two degrees, towards the right hand of the Table, the perpendicular lines are for the difference between the firſt of thoſe diſtances, and the true diſtance of the obſervation, and the horizontal lines at the angle of meeting, ſhew the time which muſt be added to the time taken out with the firſt diſtance, from the Nautical Almanac, the ſum will be the time at Greenwich correſponding with the obſervation. This table will alſo be uſeful for turning time into degrees, and vice verſa; this is done by the dots along the diagonal line, correſponding with the time.

The dotted angular lines in the firſt part of this Table will likewiſe ſerve as a parallactic Table for finding the ſecond arc, wherein the horizontal lines for the Moon's parallax are each of them three ſeconds of a degree, and the perpendicular lines for the correction, are each of them twelve ſeconds.——The whole of this Table will likewiſe ſerve for ſexageſimal proportions to any degree of exactneſs that may be required.

At the bottom corner of the large plate is a triangular duodecimal Table, uſeful for reducing the Sun or Moon's longitude, right aſcenſion, declination, &c. to any time after noon or midnight, and for many other purpoſes. The principles of all theſe Tables are the ſame, therefore a farther explanation is unneceſſary ſince they are readily and without difficulty applied to ſuch purpoſe as the nature of the caſe may require.

This plate likewiſe contains ſeveral other uſeful Tables; viz. A Table for turning time into degrees, and vice verſa, at every 3 hours.

A Table for ſhewing the Sun's parallax in altitude, to parts of a ſecond, according to his altitude.

A Table for ſhewing the augmentation of the Moon's ſemi-diameter, to parts of a ſecond, according to her altitude and horizontal parallax.

A Table for ſhewing the Sun's ſemi-diameter, to parts of a ſecond, for any day in the year.

A Table for ſhewing the dip of the horizon, to parts of a minute, according to the height of the eye above the ſurface of the ſea.

## *Of the Table (or Formulæ) for the Calculation.*

In the right hand pages are contained fifteen formulæ, in each of which there is room for inſerting the whole proceſs of finding the longitude, after the obſervations have been corrected for the ſemi-diameters and dip of the horizon. The apparent time of the ſhip being given.

## *Rules for uſing the Tables.*

Find in the Tables the degree of diſtance correſponding with the degrees of the corrected obſervation (neglecting the odd minutes, &c.) and in one of the formulæ ſet down the altitude of the Moon, the altitude of the Sun, or Star, the Moon's horizontal parallax, and the apparent diſtance of the centers; theſe four being the neceſſary data for clearing the diſtance from parallax and refraction. Then find the Moon's altitude among the perpendicular lines, and the Sun or Star's altitude among the oblique curved lines, and trace them along till they meet, on which place ſet the point of a pin, or the very fine point of a pencil: Among the horizontal lines obſerve the correction anſwering to this point, and if it be above the line marked **O**, the correction muſt be ſubtracted: this will always be the caſe when the diſtance is above 95 degrees,

degrees, and much oftener than otherwiſe, in all other diſtances. But if the point where the two altitudes meet happen below the line marked O, this correction muſt always be added to the apparent diſtance. The ſpace between any two horizontal lines is 1 minute or 60 ſeconds of a degree; therefore in eſtimating for the ſeconds, care muſt be taken to make the proper allowance: thus, if the point fall in the middle of a ſpace, 30 ſeconds muſt be allowed; if it fall at one third part of a ſpace, it is 20 ſeconds; a quarter of a ſpace is 15 ſeconds; a fifth part is 12 ſeconds, and a ſixth part is 10 ſeconds, &c. The eſtimating to the intermediate portions of a minute will ſoon become familiar.

Having eſtimated and ſet down this correction with its proper ſign, for the firſt arc, take notice of the ſituation of the point with regard to the dotted curves, and take out the argument for finding the ſecond arc, obſerving to eſtimatefor the odd ſeconds in the manner that has been deſcribed in taking out the firſt arc, look for the minutes and ſeconds thus found among the dotted angular lines in the parallactic proportional Table, and the Moon's horizontal parallax, among the horizontal lines numbered at the ſide towards the left hand, and the vertical line which paſſes through the point where theſe meet ſhews the minutes and ſeconds which are to be ſet down in the line for the ſecond arc; this arc is always to be added to the firſt arc for the total, whether it be + or —, unleſs the point where the altitudes meet, fall between the dotted curve marked O, and the line marked O, for the firſt correction; but if the point falls between thoſe lines, the two arcs have contrary ſigns, and the difference between them muſt be taken for the total, which has always the ſame ſign with the greater, and is the true correction at the even degree of diſtance: but it will ſeldom happen in this ſituation. Repeat the operation in the next greater degree of diſtance; and ſet it down in the vacant ſpace to the left of the other, (as in the following examples) then take the difference between them, which ſet down in the line of difference for 1 degree, with the ſign + if the laſt correction be greateſt, but — if it be leſs: and in the ſmall ſexageſimal Table, find the odd minutes, &c. of diſtance at the ſide and the difference for 1 degree, among the angular lines, and take out the proportional part from the perpendicular lines; this being applied, according to its ſign, to the total or correction at the even degree, will give the true correction required, and being properly applied to the apparent diſtance, the reſult will be the true diſtance of the objects. It may ſometimes happen, when the correction at the firſt degree of diſtance is only a few ſeconds +, that the correction at the next degree, will be a few ſeconds —, in this caſe the ſum of both is the difference for a degree of diſtance, and the proportional part thereof muſt be taken for the odd minutes, but this circumſtance will not happen above once in a hundred obſervations.

Having thus found the true diſtance of the centers, find, in the Nautical Almanac, where it falls between two of thoſe diſtances, and ſet the firſt of them down, beneath the true diſtance in the formulæ, and alſo the hour; take the difference between them, and ſet it beneath, in the line againſt diff. Find alſo the difference between the two diſtances in the Nautical Almanac, and ſet it down in the line diff. in 3 hours; then in the large 3 hours proportional Table find the firſt of theſe differences among the perpendicular lines, and the other difference among the angular lines, and where they meet, ſet a fine point, and the horizontal lines will ſhew the proportional part; (or ſubſtract the proportional logarithm of the laſt difference from that of the firſt, and the remainder is the proportional logarithm of the time;) this being added to the time of the firſt diſtance before ſet down, the ſum is the apparent time at Greenwich when the obſervation was made. The difference between this and the apparent time at the ſhip gives the ſhip's longitude in time, and may be changed into degrees by the table mentioned above; and is eaſt, if the time at the ſhip be greater than the time at Greenwich, but weſt, if the time at the ſhip be leſs than the time at Greenwich.

The

The Author laid the plan of his Tables before the Honourable Court of Directors of the United East India Company, with a petition for their patronage and support. It was referred from thence to the Captains in the Company's service, from whom (after an investigation, by working several observations) the Author received the following approbation of their utility:

JERUSALEM COFFEE-HOUSE, March 3, 1790.

"WE, the underwritten Commanders, in the service of the Honourable East India Company, "having seen Mr. MARGETTS' method of working Lunar Observations, do hereby testify our "approbation thereof, as being sufficiently near the truth to answer in all cases, for clearing "Lunar Distances from the effects of Parallax and Refraction.

BURNET ABERCROMBY,
JOHN CORNER,
JOSEPH DORIN,
JAMES REES,
J. HUDDART,
CHARLES STEWART,
JOHN BARTLET,
JOSEPH COTTON,
JOHN STROVER,
J. WOOLMORE,
J. P. LARKINS,
JAMES BALDWIN,
HENRY SMEDLEY."

After the above approbation had been presented to the Committee of Shipping, the Court of Directors ordered their Treasurer to pay the Author a subscription of 120 Guineas.

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Richard Atherſtone Farrington, Eſq.
John Baird, Eſq.

## OFFICERS IN THE COMPANY'S SERVICE.

Mr. F. W. Leigh, of the Warren Haſtings Eaſt Indiaman, 2 ſets.
Mr. Richard Hall Gower, of the Worceſter Eaſt Indiaman.
Mr. Thomas Turner, of the Rodney Eaſt Indiaman.
Mr. Henry Wilſon, jun. Hawke Eaſt Indiaman.
Mr. Ebenezer Roebuck, Eſſex Eaſt Indiaman.
Mr. Patrick Burt, Dublin Eaſt Indiaman.
Mr. George Barnes, Bombay.

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## ADVERTISEMENT.

In finding the longitude at ſea by Lunar Obſervations three perſons have always been thought requiſite to make the neceſſary obſervations, and the proceſs at land has been attended with ſtill greater difficulty, on account of the altitudes not being eaſily obtained; but with the aſſiſtance of a ſet of Tables which the author is now publiſhing by ſubſcription, the proceſs of finding the longitude, either at ſea or land, requires only the obſervation of taking the Moon's diſtance from the Sun or Star, for the watch having been previouſly ſet to the apparent time, the altitude of the Moon and the Sun, or Star, required, in order to correct the diſtance, may be found by inſpection. The time at the ſhip, from an altitude, may alſo be found by inſpection, for the purpoſe of ſetting the watch. The azimuth may likewiſe be found by inſpection; and a ſingle altitude of the Sun, Moon, Star, or Planet, with the horary angle, if taken within three hours of the Meridian, will give the latitude of the ſhip by inſpection; and the ſame altitudes which are taken for the purpoſe of clearing the diſtance, will at all times determine the latitude if they are taken with any degree of accuracy.

# EXEMPLIFICATION of the TABLES.

## EXAMPLE I.

The apparent altitude of the moon's center being 12°. 30′, when that of a ſtar was 24°. 48′, the moon's horizontal parallax 56′. 15″, and the apparent diſtance of the moon's center from the ſtar 51°. 28′. 35″, required the true diſtance?

In 51 degrees of diſtance find 12°. 30′ among the perpendicular lines, and 24°. 48′ among the oblique curved lines, and where they meet make a point, and the firſt correction, among the horizontal lines, will be —17′. 35″ this is to be ſubtracted, becauſe the the point is above the line marked (O) at the ſide of the Table; having ſet this correction down for the firſt arc with the ſign —, obſerve, that the point falls a little beyond the third dotted curve, above that marked (O.) Then in the Parallactic Table find the moon's horizontal parallax 56′. 15″, at the left ſide; and againſt it make a point, bearing the ſame proportion, viz. a littſe beyond the dotted line marked 3; and the ſecond correction correſponding with this point, found among the perpendicular lines, is —1′. 8″ to be ſubtracted; the ſum of theſe two arcs is —18′. 43″ for the correction at 51 degrees of diſtance; but the apparent diſtance being 51°. 28′. 35″, the ſame muſt be repeated in 52 degrees of diſtance, where the firſt correction is —17′. 33″, and the ſecond correction —1′. 7″, their ſum —18′. 40″ will be the correction at 52 degrees of diſtance, the difference between them is only 3″ for a degree of diſtance, therefore —18′. 42″ is the true correction at the apparent diſtance 51°. 28′. 35″, and being ſubtracted therefrom, the remainder 51°. 9′. 53″ is the true diſtance of the objects. *Note.* In the requiſite Tables, the true diſtance of this obſervation by Lyon's method, is 51°. 9′. 50″; and by Dunthorne's method with five places of figures, it is 51°. 9′. 52″.

## EXAMPLE II.

Admit the apparent altitude of the moon's center to be 55°. 56′, that of a ſtar 19°. 18′, the moon's horizontal parallax 60′. 5″, and the apparent diſtance of the moon's center from the ſtar 50°. 8′. 41″, the apparent time at the ſhip being 9 h. 32 m. 28 s. The true diſtance in the Nautical Almanac at nine hours is 51°. 44′. 54″, and the difference in the next three hours —1°. 28′. 54″, required the true diſtance of the moon's center from the ſtar, and alſo the longitude of the ſhip?

In 50 degrees of diſtance find the moon's altitude 55°. 56′ among the perpendicular lines, and the ſtar's altitude 19°. 18′ among the oblique curved lines, and a point being made at the angle of meeting, the correction anſwering thereto, among the horizontal lines, is +16′. 2″ this is to be added, becauſe the point is below the line marked (O) at the ſide of the Table. Having ſet this correction down for the firſt arc with the ſign + the point is obſerved to fall almoſt between the ſecond and third dotted curves, below that marked (O); then in the Parallactic Table find the moon's horizontal parallax 60′. 5″ on the ſide, and againſt it make a point, bearing the ſame proportion, viz. almoſt half way beyond the dotted angular line marked 2, and ſecond correction among the perpendicular lines is +1′. 52″ this is to be added, becauſe below the dotted curve marked (O), the ſum of theſe two arcs +17′. 54″, is the correction at 50 degrees of diſtance, but the apparent diſtance being 50°. 8′. 41″, the ſame muſt be repeated in 51 degrees of diſtance, where the firſt correction is +15′. 5″, and the ſecond +1′. 45″, their ſum +16′. 50″ is the correction at 51 degrees; the difference for one degree is —1′. 4″, and for 8′. 41″, it is 9 ſeconds, therefore the correction at 50°. 8′. 41″ is +17′. 45″, and being added thereto, gives 50°. 26′. 26″ for the true diſtance of the objects; this diſtance is 1°. 18′. 28″ leſs than the diſtance at 9 hours. Therefore in the 3 hour Proportional Table find 1°. 18′. 28″ among the perpendicular lines, and 1°. 28′. 54″, the moon's motion in three hours, among the angular lines, and a point being made at the angle of meeting, will ſhew the correſponding time among the horizontal lines, to be 2 h. 38 m. 46 s. and being added to 9 hours, gives 11 h. 38 m. 46 s. for the apparent time at Greenwich, which is 2 h. 6 m. 11 s. more than the time of the obſervation at the ſhip, equal to 31°. 33′ of longitude weſt from Greenwich. The whole of this proceſs is ſet down in the Third Example, with the difference of 4 ſeconds, in the true diſtance, being the reſult of another operation.

## *EXAMPLES.*

EXAMPLE III. *Cor. from* (51) *Diſt.* 50 *deg.*

| | ° | ′ | ″ |
|---|---|---|---|
| Moon's app. alt. | 55 | 56 | 0 |
| Star's app. alt. | 19 | 18 | 0 |
| Moon's hor. par. | 0 | 60 | 5 |
| App. diſtance | 50 | 8 | 41 |
| True diſtance | 50 | 26 | 30 |
| Do. at 9 hours | 51 | 44 | 54 |
| Difference | 1 | 18 | 24 |
| Diff. in 3 hours | 1 | 28 | 54 |
| Longitude | 31 | 34 | W |

| | ° | ′ | ″ |
|---|---|---|---|
| 1ſt arc. (+15′ 9″) | + | 16 | 5 |
| 2d do. (+ 1 45) | + | 1 | 53 |
| Total (+16′ 54″) | + | 17 | 58 |
| Diff. for 1 deg. | — | 1 | 4 |
| Do. for 8′ 41″ | — | 0 | 9 |
| Correction | + | 17 | 49 |
| Time at Greenw. | 11h | 38 | 46 |
| Time at Ship | 9h | 32 | 28 |
| Diff. Weſt | 2h | 16 | 18 |

EXAMPLE IV. *Cor. from* (60) *Diſt.* 59 *deg.*

| | ° | ′ | ″ |
|---|---|---|---|
| Moon's app. alt. | 27 | 2 | 0 |
| Sun's app. alt. | 59 | 12 | 0 |
| Moon's hor. par. | 0 | 59 | 58 |
| App. diſtance | 59 | 25 | 34 |
| True diſtance | 58 | 43 | 31 |
| Do. at 6 hours | 58 | 11 | 54 |
| Difference | 0 | 31 | 37 |
| Diff. in 3 hours | 1 | 40 | 5 |
| Longitude | 105 | 25 | W |

| | ° | ′ | ″ |
|---|---|---|---|
| 1ſt arc. (—37′ 6″) | — | 36 | 52 |
| 2d do. (— 5 6) | — | 5 | 4 |
| Total (—42′ 12″) | — | 41 | 56 |
| Diff. for 1 deg. | + | 0 | 16 |
| Do. for 25′ 34″ | + | 0 | 7 |
| Correction | — | 41 | 3 |
| Time at Greenw. | 6h | 56 | 52 |
| Time at Ship | 2h | 55 | 10 |
| Diff. W. | 7h | 1 | 42 |

In the Requiſite Tables, theſe Examples, calculated to ſix places of figures by Dunthorne's method, improved, give 50°. 26′. 30″ for the true diſtance of the Third Example, agreeing exactly with the above. In the Fourth Example, the true diſtance there given, is 58°. 43′. 29″, being two ſeconds leſs than in the above, equal to 1 mile difference in the Longitude.

# EXAMPLES.

EXAMPLE V. *Cor. from* (39) *Diſt.* 38 *deg.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Moon's app. alt. | 20 | 9 | 0 | First arc. | (+5 | 55) | + | 6 22 |
| Star's app. alt. | 12 | 27 | 0 | 2d do. | (+0 | 27) | + | 0 28 |
| Moon's hor. par. | 0 | 57 | 24 | Total | (+6 | 22) | + | 6 50 |
| App. diſtance | 38 | 22 | 17 | Diff. for 1 deg. | | | — | 0 28 |
| Correction | + | 6 | 40 | Do. for 22′ 17″ | | | — | 0 10 |
| True diſtance | 38 | 28 | 57 | Correction | | | + | 6 40 |
| *True Diſtance* | 38 | 28 | 56 | by Dr. Shepherd's Tables | | | | |

EXAMPLE VI. *Cor. from* (46) *Diſt.* 45 *deg.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Moon's app. alt. | 21 | 26 | 0 | 1ſt arc. | (—0 | 8) | + | 0 2 |
| Star's app. alt. | 15 | 54 | 0 | 2d do. | (—0 | 3) | — | 0 2 |
| Moon's hor. par. | 0 | 56 | 30 | Total | (—0 | 11) | 0 | 0 0 |
| App. diſtance | 45 | 40 | 14 | Diff. for 1 deg. | | | — | 0 11 |
| Correction | — | 0 | 7 | Do. for 40′ 14″ | | | — | 0 7 |
| True diſtance | 45 | 40 | 7 | Correction | | | — | 0 7 |
| *True Diſtance* | 45 | 40 | 7 | by Dr. Shepherd's Tables | | | | |

EXAMPLE VII. *Cor. from* (66) *Diſt.* 65 *deg.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Moon's app. alt. | 15 | 21 | 0 | 1ſt arc. | (—47 | 16) | — | 47 29 |
| Star's app. alt. | 78 | 18 | 0 | 2d do. | (— 7 | 3) | — | 7 4 |
| Moon's hor. par. | 0 | 60 | 25 | Total | (—54 | 19) | — | 54 33 |
| App. diſtance | 65 | 27 | 30 | Diff. for 1 deg. | | | — | 0 14 |
| Correction | — | 54 | 27 | Do. for 27′ 30″ | | | — | 0 6 |
| True diſtance | 64 | 33 | 3 | Correction | | | — | 54 27 |
| *True Diſtance* | 64 | 32 | 59 | by Dr. Shepherd's Tables | | | | |

EXAMPLE VIII. *Cor. from* (44) *Diſt.* 43 *deg.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Moon's app. alt. | 9 | 37 | 0 | 1ſt arc. | (— 4 | 40) | — | 4 32 |
| Star's app. alt. | 11 | 18 | 0 | 2d do. | (— 0 | 10) | — | 0 10 |
| Moon's hor. par. | 0 | 54 | 42 | Total | (— 4 | 50) | — | 4 42 |
| App. diſtance | 43 | 35 | 42 | Diff. for 1 deg. | | | + | 0 8 |
| Correction | — | 4 | 47 | Do. for 35′ 42″ | | | + | 0 5 |
| True diſtance | 43 | 30 | 55 | Correction | | | — | 4 47 |
| *True Diſtance* | 43 | 31 | 2 | by the Requiſite Tables | | | | |

EXAMPLE IX. *Cor. from* (36) *Diſt.* 35 *deg.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Moon's app. alt. | 20 | 34 | 0 | 1ſt arc. | (— 0 | 31) | — | 0 14 |
| Star's app. alt. | 17 | 40 | 0 | 2d do. | (— 0 | 4) | — | 0 1 |
| Moon's hor. par. | 0 | 56 | 24 | Total | (— 0 | 35) | — | 0 15 |
| App. diſtance | 35 | 29 | 45 | Diff. for 1 deg. | | | + | 0 20 |
| Correction | — | 0 | 25 | Do. for 29′ 45″ | | | + | 0 10 |
| True diſtance | 35 | 29 | 20 | Correction | | | — | 0 25 |
| *True Diſtance* | 35 | 29 | 20 | by Dr. Shepherd's Tables | | | | |

EXAMPLE X. *Cor. from* (86) *Diſt.* 85 *deg.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Moon's app. alt. | 30 | 0 | 0 | 1ſt arc. | ( | ′ ″ | ) + | 2 44 |
| Star's app. alt. | 5 | 0 | 0 | 2d do. | ( | | ) — | 0 13 |
| Moon's hor. par. | 0 | 60 | 0 | Total | ( | | ) + | 2 31 |
| App. diſtance | 85 | 0 | 0 | | | | | |
| Correction | + | 2 | 31 | | | | | |
| True diſtance | 85 | 2 | 31 | | | | | |
| *True Diſtance* | 85 | 2 | 27 | by the Requiſite Tables | | | | |

In this example the firſt arc being + and the ſecond —, the difference between them is the total, which in this caſe is the correction, there being no odd minutes of diſtance.

EXAMPLE XI. *Cor. from* (50) *Diſt.* 49 *deg.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Moon's app. alt. | 43 | 20 | 0 | 1ſt arc. | (+ 0 | 5) | + | 0 46 |
| Star's app. alt. | 27 | 15 | 0 | 2d do. | (— 0 | 6) | — | 0 2 |
| Moon's hor. par. | 0 | 58 | 50 | Total | (— 0 | 1) | + | 0 44 |
| App. diſtance | 49 | 17 | 21 | Diff. for 1 deg. | | | — | 0 45 |
| Correction | + | 0 | 31 | Do. for 17′ 21″ | | | — | 0 13 |
| True diſtance | 49 | 17 | 52 | Correction | | | + | 0 31 |
| *True Diſtance* | 49 | 17 | 54 | by Dr. Shepherd's Tables | | | | |

In this example the correction at 49 degrees being + and that at 50 degrees being —, their ſum is the difference for a degree of diſtance; this is a circumſtance that often occurs.

EXAMPLE XII. *Cor. from* (34) *Diſt.* 33 *deg.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Moon's app. alt. | 64 | 30 | 0 | 1ſt arc. | (+ 0 | 50) | + | 1 42 |
| Star's app. alt. | 48 | 20 | 0 | 2d do. | (+ 0 | 2) | + | 0 3 |
| Moon's hor. par. | 0 | 55 | 29 | Total | (+ 0 | 52) | + | 1 45 |
| App. diſtance | 33 | 15 | 0 | Diff. for 1 deg. | | | — | 0 53 |
| Correction | + | 1 | 32 | Do. for 15′ 0″ | | | — | 0 13 |
| True diſtance | 33 | 16 | 32 | Correction | | | + | 1 32 |
| *True Diſtance* | 33 | 16 | 29 | by Mr. Lyons | | | | |

EXAMPLE XIII. *Cor. from* (91) *Diſt.* 90 *deg.*

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Moon's app. alt. | 22 | 15 | 0 | 1ſt arc. | (—30 | 57) | — | 30 15 |
| Star's app. alt. | 21 | 35 | 0 | 2d do. | (— 3 | 12) | — | 3 7 |
| Moon's hor. par. | 0 | 58 | 0 | Total | (—34 | 9) | — | 33 22 |
| App. diſtance | 119 | 20 | 34 | Diff. for 1 deg. | | | + | 0 47 |
| Correction | — | 33 | 38 | Do. for 20′ 34″ | | | + | 0 16 |
| True diſtance | 118 | 46 | 56 | Correction | | | — | 33 38 |
| *True Diſtance* | 118 | 46 | 54 | by Mr. Dunthorne's Method | | | | |

The Author reſts the merit of his Work on the caſe and accuracy of its performance; for in the above Examples, which contain all the variety that ever can occur in practice, the greateſt error in the longitude does not amount to ½ miles, and if the proceſs of working in both degrees of diſtance had been omitted, and the correction taken from the neareſt degree, the error in the longitude on that account would not amount to 8 miles in any one of the above examples; ſo that in general, the correction may be taken out from the neareſt degree without much error in the longitude; in which caſe only 15 or 16 figures need ever be uſed to correct the obſervation, and expreſs the true diſtance; but the proceſs of working in both degrees being attended with ſo little trouble, it is proper to be done were it only for a check on the proceſs. Theſe Examples are placed in the ſame manner as the operation ſhould be ſet down in the Formula for finding the Longitude.

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts invt.et del. — Published as the Act directs Jan.1.1790.

| | ☽ | ° | ′ |
|---|---|---|---|
| Moons app. Alt. | | | |
| Suns app Alt. | | | |
| Moons Hor Par: | | | |
| app. Distance | | | |
| true Distance | | | |
| d°. at Hours | | | |
| difference — | | | |
| d°. in 3 Hours | | | |
| Longitude | | | |

| | ☽ | ° | ′ |
|---|---|---|---|
| 1st Arc. | — | | |
| 2nd d°. | — | | |
| Total | — | | |
| diff for 1 Deg: | — | | |
| diff for ′ ″ | — | | |
| Correction | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Difference — | | | |

| | ☽ | ° | ′ |
|---|---|---|---|
| Moons app. Alt. | | | |
| Stars app. Alt. | | | |
| Moons Hor. Par. | | | |
| app. Distance | | | |
| true Distance | | | |
| d°. at Hours | | | |
| difference — | | | |
| d°. in 3 Hours | | | |
| Longitude | | | |

| | ☽ | ° | ′ |
|---|---|---|---|
| 1st Arc. | — | | |
| 2nd Arc. | — | | |
| Total | — | | |
| diff for 1 Deg. | — | | |
| diff. for ′ ″ | — | | |
| Correction | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Difference — | | | |

| | ☽ | ° | ′ |
|---|---|---|---|
| Moons app. Alt. | | | |
| Suns app. Alt. | | | |
| Moons Hor. Par. | | | |
| app. Distance | | | |
| true Distance | | | |
| d°. at Hours | | | |
| difference — | | | |
| d°. in 3 Hours | | | |
| Longitude | | | |

| | ☽ | ° | ′ |
|---|---|---|---|
| 1st Arc. | — | | |
| 2nd Arc. | — | | |
| Total | — | | |
| diff. for 1 Deg: | — | | |
| diff. for ′ ″ | — | | |
| Correction | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Difference — | | | |

| | ☽ | ° | ′ |
|---|---|---|---|
| Moons Alt. | | | |
| Stars Alt. | | | |
| Hor: Par: | | | |
| App. Dist. | | | |
| True Dist. | | | |
| d°. at ho. | | | |
| Diff. — | | | |
| Diff. in 3 ho. | | | |
| Longitude | | | |

| | ☽ | ° | ′ |
|---|---|---|---|
| 1st Arc. | — | | |
| 2nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ′ ″ | — | | |
| Corr: | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff. — | | | |

| | ☽ | ° | ′ |
|---|---|---|---|
| Moons Alt. | | | |
| Suns Alt. | | | |
| Hor: Par: | | | |
| App. Dist. | | | |
| True Dist. | | | |
| d°. at ho. | | | |
| Diff. — | | | |
| Diff. in 3 ho. | | | |
| Longitude | | | |

| | ☽ | ° | ′ |
|---|---|---|---|
| 1st Arc. | — | | |
| 2nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ′ ″ | — | | |
| Corr: | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff. — | | | |

| | ☽ | ° | ′ |
|---|---|---|---|
| Moons Alt. | | | |
| Stars Alt. | | | |
| Hor: Par: | | | |
| App. Dist. | | | |
| True Dist. | | | |
| d°. at ho. | | | |
| Diff. — | | | |
| Diff. in 3 ho. | | | |
| Longitude | | | |

| | ☽ | ° | ′ |
|---|---|---|---|
| 1st Arc. | — | | |
| 2nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ′ ″ | — | | |
| Corr: | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff. — | | | |

| | ☽ | ° | ′ |
|---|---|---|---|
| Moons Alt. | | | |
| Suns Alt. | | | |
| Hor: Par: | | | |
| App. Dist. | | | |
| True Dist. | | | |
| d°. at ho. | | | |
| Diff. — | | | |
| Diff. in 3 ho. | | | |
| Longitude | | | |

| | ☽ | ° | ′ |
|---|---|---|---|
| 1st Arc. | — | | |
| 2nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ′ ″ | — | | |
| Corr: | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff. — | | | |

| | ☽ | ° | ′ |
|---|---|---|---|
| Moons Alt. | | | |
| Stars Alt. | | | |
| Hor: Par: | | | |
| App. Dist. | | | |
| True Dist. | | | |
| d°. at ho. | | | |
| Diff. — | | | |
| Diff. in 3 ho. | | | |
| Longitude | | | |

| | ☽ | ° | ′ |
|---|---|---|---|
| 1st Arc. | — | | |
| 2nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ′ ″ | — | | |
| Corr: | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff. — | | | |

| | ☽ | ° | ′ |
|---|---|---|---|
| Moons Alt. | | | |
| Suns Alt. | | | |
| Hor: Par: | | | |
| App. Dist. | | | |
| True Dist. | | | |
| d°. at ho. | | | |
| Diff. — | | | |
| Diff. in 3 ho. | | | |
| Longitude | | | |

| | ☽ | ° | ′ |
|---|---|---|---|
| 1st Arc. | — | | |
| 2nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ′ ″ | — | | |
| Corr: | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff. — | | | |

| | ☽ | ° | ′ |
|---|---|---|---|
| Moons Alt. | | | |
| Stars Alt. | | | |
| Hor: Par: | | | |
| App. Dist. | | | |
| True Dist. | | | |
| d°. at ho. | | | |
| Diff. — | | | |
| Diff. in 3 ho. | | | |
| Longitude | | | |

| | ☽ | ° | ′ |
|---|---|---|---|
| 1st Arc. | — | | |
| 2nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ′ ″ | — | | |
| Corr: | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff. — | | | |

| | ☽ | ° | ′ |
|---|---|---|---|
| Moons Alt. | | | |
| Suns Alt. | | | |
| Hor: Par: | | | |
| App. Dist. | | | |
| True Dist. | | | |
| d°. at ho. | | | |
| Diff. — | | | |
| Diff. in 3 ho. | | | |
| Longitude | | | |

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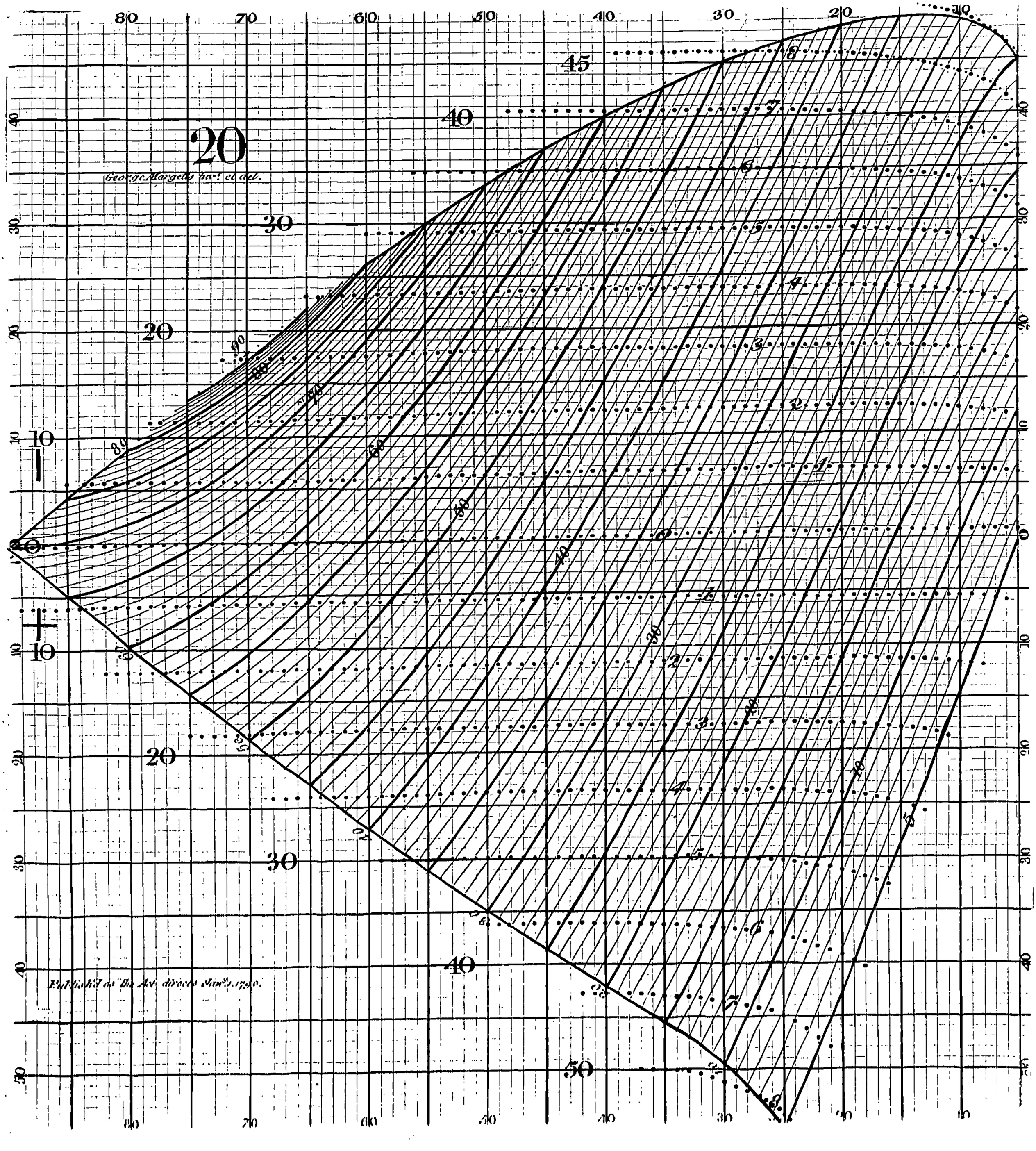
| 1st Arc. | — | | |
| 2nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ′ ″ | — | | |
| Corr: | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff. — | | | |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George Margetts fec.t et del.
Published as the Act directs 1st Jany 1790.

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

*Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.*

George Margetts inv.t et del.

Publish'd as the Act directs Jan.y 1.1790.

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons app:Alt: | | | | 1.st Arc: | — | | |
| Suns app:Alt: | | | | 2.nd Arc: | — | | |
| Moons Hor: Par: | | | | Total | — | | |
| App: Distance | | | | diff: for 1 Deg: | — | | |
| True Distance | | | | diff: for ′ ″ | — | | |
| d.o at Hours | | | | Correction | — | | |
| difference — | | | | Time at Greenw.h | H | M | S |
| d.o in 3 Hours | | | | Time at Ship | | | |
| Longitude | | | | Difference — | | | |

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| Moons Alt: | | | | 1.st Arc: | — | | |
| Stars Alt: | | | | 2.nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| d.o at ho | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | |

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| Moons Alt: | | | | 1.st Arc: | — | | |
| Suns Alt: | | | | 2.nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| d.o at ho: | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | |

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| Moons Alt: | | | | 1.st Arc: | — | | |
| Stars Alt: | | | | 2.nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist | | | | Diff: for ′ ″ | — | | |
| d.o at ho: | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: | | | |

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| Suns Alt: | | | | 2.nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| d.o at ho: | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
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| Moons Alt: | | | | 1.st Arc: | — | | |
| Stars Alt: | | | | 2.nd Arc: | — | | |
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| Moons Alt: | | | | 1.st Arc: | — | | |
| Suns Alt: | | | | 2.nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
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| Moons Alt: | | | | 1.st Arc: | — | | |
| Stars Alt: | | | | 2.nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
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| Moons Alt: | | | | 1.st Arc: | — | | |
| Suns Alt: | | | | 2.nd Arc: | — | | |
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| Stars Alt: | | | | 2.nd Arc: | — | | |
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| Diff: in 3 ho: | | | | Time at Ship | | | |
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George Margetts dirt et del

Published as the Act directs Jan.y 1st 1790

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star, & the Apparent Altitudes of their Centers.

George Margetts inv.t et del.

Published as the Act directs Jan.y 1.1790.

| | D | M | S |
|---|---|---|---|
| Moons app. Alt. | | | |
| Suns app Alt. | | | |
| Moons Hor Par: | | | |
| app. Distance | | | |
| true Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

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| 1.st Arc. | — | | |
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| Correction | — | | |
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| Time at Greenw.h | | | |
| Time at Ship | | | |
| Difference — | | | |

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| Moons app Alt. | | | |
| Stars app. Alt. | | | |
| Moons Hor: Par: | | | |
| app Distance | | | |
| true Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

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|---|---|---|---|
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| 2.nd Arc. | — | | |
| Total | — | | |
| diff for 1 Deg: | — | | |
| diff for ' " | — | | |
| Correction | — | | |
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Difference — | | | |

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| Moons app. Alt. | | | |
| Suns app. Alt. | | | |
| Moons Hor: Par: | | | |
| app. Distance | | | |
| true Distance | | | |
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| difference — | | | |
| d.o in 3 Hours | | | |
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| 2.nd d.o | — | | |
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| diff. for 1 Deg: | — | | |
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| Correction | — | | |
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| Time at Greenw.h | | | |
| Time at Ship | | | |
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| Moons Alt. | | | |
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| Moons Alt. | | | |
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| 1.st Arc. | — | | |
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| Time at Greenw.h | | | |
| Time at Ship | | | |
| Diff. — | | | |

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George Marquis inv.t et del.

Published as the Act directs 2nd. Jan.y 1795.

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts inv.t et del.

Publish'd as the Act directs Jan. 1. 1790.

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons app:Alt: | | | | 1st Arc: | — | | |
| Suns app:Alt: | | | | 2nd Arc: | — | | |
| Moons Hor:Par: | | | | Total | — | | |
| App:Distance | | | | diff:for 1 Deg: | — | | |
| True Distance | | | | diff:for ′ ″ | — | | |
| d° at Hours | | | | Correction | — | | |
| difference — | | | | Time at Greenw.h | H | M | S |
| d° in 3 Hours | | | | Time at Ship | | | |
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| Moons app.Alt | | | | 1st Arc: | — | | |
| Stars app:Alt: | | | | 2nd Arc: | — | | |
| Moons Hor:Par: | | | | Total | — | | |
| App:Distance | | | | diff:for 1 Deg: | — | | |
| True Distance | | | | diff:for ′ ″ | — | | |
| d° at Hours | | | | Correction | — | | |
| difference — | | | | Time at Greenw.h | H | M | S |
| d° in 3 Hours | | | | Time at Ship. | | | |
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| | D | M | S | | D | M | S |
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| Moons app.Alt: | | | | 1st Arc. | — | | |
| Suns app.Alt: | | | | 2nd d° | — | | |
| Moons Hor.Par: | | | | Total | — | | |
| App.Distance | | | | diff. for 1 Deg. | — | | |
| True Distance | | | | diff. for ′ ″ | — | | |
| d° at Hours. | | | | Correction | — | | |
| difference — | | | | Time at Greenw.h | H | M | S |
| d° in 3 Hours | | | | Time at Ship | | | |
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| Moons Alt: | | | | 1st Arc: | — | | |
| Stars Alt: | | | | 2nd Arc: | — | | |
| Hor:Par: | | | | Total | — | | |
| App:Dist: | | | | Diff:for 1 Deg: | — | | |
| True Dist: | | | | Diff:for ′ ″ | — | | |
| d° at ho | | | | Corr: | — | | |
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| Moons Alt: | | | | 1st Arc: | — | | |
| Suns Alt: | | | | 2nd Arc: | — | | |
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| Moons Alt: | | | | 1st Arc: | — | | |
| Stars Alt: | | | | 2nd Arc: | — | | |
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| Hor:Par: | | | | Total | — | | |
| App:Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff:for ′ ″ | — | | |
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| Moons Alt: | | | | 1st Arc: | — | | |
| Stars Alt: | | | | 2nd Arc: | — | | |
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| Moons Alt: | | | | 1st Arc: | — | | |
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|---|---|---|---|---|---|---|---|
| Moons Alt: | | | | 1st Arc: | — | | |
| Stars Alt: | | | | 2nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist | | | | Diff: for ′ ″ | — | | |
| d° at ho | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
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| Moons Alt: | | | | 1st Arc: | — | | |
| Suns Alt: | | | | 2nd Arc: | — | | |
| Hor Par: | | | | Total | — | | |
| App Dist: | | | | Diff: for 1 Deg. | — | | |
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| Moons Alt: | | | | 1st Arc: | — | | |
| Stars Alt: | | | | 2nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
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| d° at ho | | | | Corr: | — | | |
| Diff: — | | | | Time at Green.h | H | M | S |
| Diff: in 3 ho. | | | | Time at Ship | | | |
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|---|---|---|---|---|---|---|---|
| Moons Alt. | | | | 1st Arc. | — | | |
| Suns Alt. | | | | 2nd Arc. | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| d° at ho: | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | |

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons Alt: | | | | 1st Arc: | — | | |
| Stars Alt: | | | | 2nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| d° at ho | | | | Corr: | — | | |
| Diff: — | | | | Time at Green.h | H | M | S |
| Diff: in 3 ho. | | | | Time at Ship | | | |
| longitude | | | | Diff: — | | | |

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons Alt: | | | | 1st Arc: | — | | |
| Suns Alt: | | | | 2nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| d° at ho | | | | Corr: | — | | |
| Diff — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho. | | | | Time at Ship | | | |
| Longitude | | | | Diff: | | | |

23

George Margetts inv.et del.

Published as the Act directs Jan.y 1.1790.

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS.

## Having the Apparent Distance of the Moone from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts inv.t et del.

Publish'd as the Act directs Jan.y 1. 1790.

| | D | M | S |
|---|---|---|---|
| Moons app. Alt. | | | |
| Suns app Alt. | | | |
| Moons Hor Par: | | | |
| app. Distance | | | |
| true Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd d.o | — | | |
| Total | — | | |
| diff for 1 Deg: | — | | |
| diff for ' " | — | | |
| Correction | — | | |
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Difference — | | | |

| | D | M | S |
|---|---|---|---|
| Moons app. Alt. | | | |
| Stars app. Alt. | | | |
| Moons Hor. Par. | | | |
| app. Distance | | | |
| true Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| diff for 1 Deg: | — | | |
| diff for ' " | — | | |
| Correction | — | | |
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Difference — | | | |

| | D | M | S |
|---|---|---|---|
| Moons app. Alt. | | | |
| Suns app. Alt. | | | |
| Moons Hor. Par. | | | |
| app. Distance | | | |
| true Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd d.o | — | | |
| Total | — | | |
| diff. for 1 Deg: | — | | |
| diff. for ' " | — | | |
| Correction | — | | |
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Difference — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt. | | | |
| Stars Alt. | | | |
| Hor. Par. | | | |
| App. Dist. | | | |
| True Dist. | | | |
| d.o at ho. | | | |
| Diff. — | | | |
| Diff. in 3 ho. | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ' " | — | | |
| Corr. | — | | |
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Diff. — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt. | | | |
| Suns Alt. | | | |
| Hor. Par. | | | |
| App. Dist. | | | |
| True Dist. | | | |
| d.o at ho. | | | |
| Diff. — | | | |
| Diff. in 3 ho. | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ' " | — | | |
| Corr. | — | | |
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Diff. — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt. | | | |
| Stars Alt. | | | |
| Hor. Par. | | | |
| App. Dist. | | | |
| True Dist. | | | |
| d.o at ho. | | | |
| Diff. — | | | |
| Diff. in 3 ho. | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ' " | — | | |
| Corr. | — | | |
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Diff. — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt. | | | |
| Suns Alt. | | | |
| Hor. Par. | | | |
| App. Dist. | | | |
| True Dist. | | | |
| d.o at ho. | | | |
| Diff. — | | | |
| Diff. in 3 ho. | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ' " | — | | |
| Corr. | — | | |
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Diff. — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt. | | | |
| Stars Alt. | | | |
| Hor. Par. | | | |
| App. Dist. | | | |
| True Dist. | | | |
| d.o at ho. | | | |
| Diff. — | | | |
| Diff. in 3 ho. | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ' " | — | | |
| Corr. | — | | |
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Diff. — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt. | | | |
| Suns Alt. | | | |
| Hor. Par. | | | |
| App. Dist. | | | |
| True Dist. | | | |
| d.o at ho. | | | |
| Diff. — | | | |
| Diff. in 3 ho. | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ' " | — | | |
| Corr. | — | | |
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Diff. — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt. | | | |
| Stars Alt. | | | |
| Hor. Par. | | | |
| App. Dist. | | | |
| True Dist. | | | |
| d.o at ho. | | | |
| Diff. — | | | |
| Diff. in 3 ho. | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ' " | — | | |
| Corr. | — | | |
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Diff. — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt. | | | |
| Suns Alt. | | | |
| Hor. Par. | | | |
| App. Dist. | | | |
| True Dist. | | | |
| d.o at ho. | | | |
| Diff. — | | | |
| Diff. in 3 ho. | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ' " | — | | |
| Corr. | — | | |
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Diff. — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt. | | | |
| Stars Alt. | | | |
| Hor. Par. | | | |
| App. Dist. | | | |
| True Dist. | | | |
| d.o at ho. | | | |
| Diff. — | | | |
| Diff. in 3 ho. | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ' " | — | | |
| Corr. | — | | |
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Diff. — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt. | | | |
| Suns Alt. | | | |
| Hor. Par. | | | |
| App. Dist. | | | |
| True Dist. | | | |
| d.o at ho. | | | |
| Diff. — | | | |
| Diff. in 3 ho. | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ' " | — | | |
| Corr. | — | | |
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Diff. — | | | |

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George Margetts inv.t et del.

Published as the Act directs 1st Jan.y 1700.

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts inv. et del.

Publish'd as the Act directs Jan. 1. 1790.

| | D | M | S | | D | M | S | | D | M | S | | D | M | S | | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Moons app:Alt: | | | | 1st Arc: | — | | | Moons app:Alt: | | | | 1st Arc: | — | | | Moons app:Alt: | | | | 1st Arc: | — | | |
| Suns app:Alt: | | | | 2nd Arc: | — | | | Stars app:Alt: | | | | 2nd Arc: | — | | | Suns app:Alt: | | | | 2nd d° | — | | |
| Moons Hor:Par: | | | | Total | — | | | Moons Hor:Par: | | | | Total | — | | | Moons Hor:Par: | | | | Total. | — | | |
| App:Distance | | | | diff: for 1Deg: | — | | | App:Distance | | | | diff: for 1Deg: | — | | | App:Distance | | | | diff: for 1Deg: | — | | |
| True Distance | | | | diff: for ′ ″ | — | | | True Distance | | | | diff: for ′ ″ | — | | | True Distance | | | | diff: for ′ ″ | — | | |
| d° at Hours | | | | Correction | — | | | d° at Hours | | | | Correction | — | | | d° at Hours. | | | | Correction | — | | |
| difference — | | | | Time at Greenw.h | H | M | S | difference — | | | | Time at Greenw.h | H | M | S | difference — | | | | Time at Greenw.h | H | M | S |
| d° in 3 Hours | | | | Time at Ship | | | | d° in 3 Hours | | | | Time at Ship. | | | | d° in 3 Hours | | | | Time at Ship | | | |
| Longitude | | | | Difference — | | | | Longitude | | | | Diff: — | | | | Longitude | | | | Difference — | | | |

| | D | M | S | | D | M | S | | D | M | S | | D | M | S | | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Moons Alt: | | | | 1st Arc: | — | | | Moons Alt: | | | | 1st Arc: | — | | | Moons Alt: | | | | 1st Arc: | — | | |
| Stars Alt: | | | | 2nd Arc: | — | | | Suns Alt: | | | | 2nd Arc: | — | | | Stars Alt: | | | | 2nd Arc: | — | | |
| Hor:Par: | | | | Total | — | | | Hor: Par: | | | | Total | — | | | Hor: Par: | | | | Total | — | | |
| App:Dist: | | | | Diff: for 1Deg: | — | | | App. Dist: | | | | Diff: for 1Deg. | — | | | App:Dist: | | | | Diff: for 1Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | | True Dist: | | | | Diff: for ′ ″ | — | | | True Dist: | | | | Diff: for ′ ″ | — | | |
| d° at ho | | | | Corr: | — | | | d° at ho: | | | | Corr: | — | | | d° at ho: | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S | Diff: — | | | | Time at Greenw.h | H | M | S | Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | | Diff: in 3 ho: | | | | Time at Ship | | | | Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | | Longitude | | | | Diff: — | | | | Longitude | | | | Diff: — | | | |

| | D | M | S | | D | M | S | | D | M | S | | D | M | S | | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Moons Alt: | | | | 1st Arc: | — | | | Moons Alt: | | | | 1st Arc: | — | | | Moons Alt: | | | | 1st Arc: | — | | |
| Suns Alt: | | | | 2nd Arc: | — | | | Stars Alt: | | | | 2nd Arc: | — | | | Suns Alt: | | | | 2nd Arc: | — | | |
| Hor:Par: | | | | Total | — | | | Hor:Par: | | | | Total | — | | | Hor:Par: | | | | Total | — | | |
| App:Dist: | | | | Diff: for 1Deg: | — | | | App. Dist: | | | | Diff: for 1Deg: | — | | | App:Dist: | | | | Diff: for 1Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | | True Dist: | | | | Diff: for ′ ″ | — | | | True Dist: | | | | Diff: for ′ ″ | — | | |
| d° at ho: | | | | Corr: | — | | | d° at ho: | | | | Corr: | — | | | d° at ho: | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S | Diff: — | | | | Time at Greenw.h | H | M | S | Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | | Diff: in 3 ho: | | | | Time at Ship | | | | Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | | Longitude | | | | Diff: — | | | | Longitude | | | | Diff — | | | |

| | D | M | S | | D | M | S | | D | M | S | | D | M | S | | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Moons Alt: | | | | 1st Arc: | — | | | Moons Alt: | | | | 1st Arc: | — | | | Moons Alt: | | | | 1st Arc: | — | | |
| Stars Alt: | | | | 2nd Arc: | — | | | Suns Alt: | | | | 2nd Arc: | — | | | Stars Alt: | | | | 2nd Arc: | — | | |
| Hor:Par: | | | | Total | — | | | Hor Par: | | | | Total | — | | | Hor:Par: | | | | Total | — | | |
| App:Dist: | | | | Diff: for 1Deg: | — | | | App Dist: | | | | Diff: for 1Deg | — | | | App:Dist: | | | | Diff: for 1Deg: | — | | |
| True Dist | | | | Diff: for ′ ″ | — | | | True Dist: | | | | Diff: for ′ ″ | — | | | True Dist: | | | | Diff: for ′ ″ | — | | |
| d° at ho | | | | Corr: | — | | | d° at ho: | | | | Corr. | — | | | d° at ho | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S | Diff: — | | | | Time at Green.h | H | M | S | Diff: — | | | | Time at Green.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | | Diff: in 3 ho: | | | | Time at Ship | | | | Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: | | | | Longitude | | | | Diff: — | | | | Longitude | | | | Diff: — | | | |

| | D | M | S | | D | M | S | | D | M | S | | D | M | S | | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Moons Alt: | | | | 1st Arc: | — | | | Moons Alt: | | | | 1st Arc: | — | | | Moons Alt: | | | | 1st Arc: | — | | |
| Suns Alt: | | | | 2nd Arc: | — | | | Stars Alt: | | | | 2nd Arc: | — | | | Suns Alt: | | | | 2nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | | Hor: Par: | | | | Total | — | | | Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1Deg: | — | | | App: Dist: | | | | Diff: for 1Deg | — | | | App: Dist: | | | | Diff: for 1Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | | True Dist: | | | | Diff: for ′ ″ | — | | | True Dist: | | | | Diff: for ′ ″ | — | | |
| d° at ho: | | | | Corr: | — | | | d° at ho | | | | Corr: | — | | | d° at ho | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S | Diff: — | | | | Time at Green.h | H | M | S | Diff — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | | Diff: in 3 ho: | | | | Time at Ship | | | | Diff: in 3 ho. | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | | Longitude | | | | Diff: — | | | | Longitude | | | | Diff: | | | |

80 70 60 50 40 30 20 10

25 45 40 30 20 10 0 10 20 30 40 50

90 80 70 60 50 40 30 20 10 0

George Margetts inv.et del.t

Published at the Act. dirct. Jan.y 1.1796

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts inv.t et del.

Published as the Act directs, Jan.y 1.1790.

| | D | M | S |
|---|---|---|---|
| Moons app. Alt. | | | |
| Suns app. Alt. | | | |
| Moons Hor: Par: | | | |
| app. Distance | | | |
| true Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd d.o | — | | |
| Total | — | | |
| diff for 1 Deg: | — | | |
| diff for ' " | — | | |
| Correction | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Difference — | | | |

| | D | M | S |
|---|---|---|---|
| Moons app. Alt. | | | |
| Stars app. Alt. | | | |
| Moons Hor: Par: | | | |
| app. Distance | | | |
| true Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| diff for 1 Deg: | — | | |
| diff. for ' " | — | | |
| Correction | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Difference — | | | |

| | D | M | S |
|---|---|---|---|
| Moons app. Alt. | | | |
| Suns app. Alt. | | | |
| Moons Hor: Par: | | | |
| app. Distance | | | |
| true Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| diff for 1 Deg: | — | | |
| diff. for ' " | — | | |
| Corr.n | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Difference — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt. | | | |
| Stars Alt. | | | |
| Hor: Par: | | | |
| App. Dist. | | | |
| True Dist. | | | |
| d.o at h.o | | | |
| Diff. — | | | |
| Diff. in 3 h.o. | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ' " | — | | |
| Corr.n | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff. — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt. | | | |
| Suns Alt. | | | |
| Hor: Par: | | | |
| App. Dist. | | | |
| True Dist. | | | |
| d.o at h.o | | | |
| Diff. — | | | |
| Diff. in 3 h.o. | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ' " | — | | |
| Corr.n | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff. — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt. | | | |
| Stars Alt. | | | |
| Hor: Par: | | | |
| App. Dist. | | | |
| True Dist: | | | |
| d.o at h.o | | | |
| Diff. — | | | |
| Diff. in 3 h.o. | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ' " | — | | |
| Corr.n | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff. — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt. | | | |
| Suns Alt. | | | |
| Hor: Par: | | | |
| App. Dist. | | | |
| True Dist. | | | |
| d.o at h.o | | | |
| Diff. — | | | |
| Diff. in 3 h.o. | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ' " | — | | |
| Corr.n | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff. — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt. | | | |
| Stars Alt. | | | |
| Hor: Par: | | | |
| App. Dist. | | | |
| True Dist: | | | |
| d.o at h.o | | | |
| Diff. — | | | |
| Diff. in 3 h.o. | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ' " | — | | |
| Corr.n | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff. — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt. | | | |
| Suns Alt. | | | |
| Hor: Par: | | | |
| App. Dist. | | | |
| True Dist. | | | |
| d.o at h.o | | | |
| Diff. — | | | |
| Diff. in 3 h.o. | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ' " | — | | |
| Corr.n | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff. — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt. | | | |
| Stars Alt. | | | |
| Hor: Par: | | | |
| App. Dist. | | | |
| True Dist: | | | |
| d.o at h.o | | | |
| Diff. — | | | |
| Diff. in 3 h.o. | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ' " | — | | |
| Corr.n | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff. — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt. | | | |
| Suns Alt. | | | |
| Hor: Par: | | | |
| App. Dist. | | | |
| True Dist. | | | |
| d.o at h.o | | | |
| Diff. — | | | |
| Diff. in 3 h.o. | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ' " | — | | |
| Corr.n | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff. — | | | |

# 26

George Maygetts inv.et del.

Published as the Act directs June 1st 1790.

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts inv.t et del.

Published as the Act directs Jan.1.1790.

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons app:Alt: | | | | 1st Arc: | — | | |
| Suns app:Alt: | | | | 2nd Arc: | — | | |
| Moons Hor:Par: | | | | Total | — | | |
| App:Distance | | | | diff: for 1 Deg: | — | | |
| True Distance | | | | diff: for ′ ″ | — | | |
| d.o at Hours | | | | Correction | — | | |
| difference — | | | | Time at Greenw.h | H | M | S |
| d.o in 3 Hours | | | | Time at Ship | | | |
| Longitude | | | | Difference — | | | |

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons Alt: | | | | 1st Arc: | — | | |
| Stars Alt: | | | | 2nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| d.o at ho | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | |

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons Alt: | | | | 1st Arc: | — | | |
| Suns Alt: | | | | 2nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| d.o at ho: | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | |

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons Alt: | | | | 1st Arc: | — | | |
| Stars Alt: | | | | 2nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| d.o at ho: | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | |

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons Alt: | | | | 1st Arc: | — | | |
| Stars Alt: | | | | 2nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| d.o at ho: | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | |

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons Alt: | | | | 1st Arc: | — | | |
| Suns Alt: | | | | 2nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| d.o at ho: | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | |

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons Alt: | | | | 1st Arc: | — | | |
| Stars Alt: | | | | 2nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| d.o at ho: | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | |

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons Alt: | | | | 1st Arc: | — | | |
| Suns Alt: | | | | 2nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| d.o at ho: | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | |

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons Alt: | | | | 1st Arc: | — | | |
| Stars Alt: | | | | 2nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| d.o at ho | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | |

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons Alt: | | | | 1st Arc: | — | | |
| Suns Alt: | | | | 2nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| d.o at ho | | | | Corr: | — | | |
| Diff — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: | | | |

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George Margetts inv.et del.t

Published as the Act directs 1st. 1790.

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts inv.t et del.

Published as the Act directs Jan.y 1.1790.

| | D | M | S |
|---|---|---|---|
| Moons app.t Alt.e | | | |
| Suns app.t Alt.e | | | |
| Moons Hor: Par: | | | |
| app.t Distance | | | |
| true Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd d.o | — | | |
| Total | — | | |
| diff for 1 Deg: | — | | |
| diff for ' " | — | | |
| Correction | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Difference — | | | |

| | D | M | S |
|---|---|---|---|
| Moons app.t Alt.e | | | |
| Stars app.t Alt.e | | | |
| Moons Hor: Par: | | | |
| app.t Distance | | | |
| true Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| diff for 1 Deg. | — | | |
| diff for ' " | — | | |
| Correction | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Difference — | | | |

| | D | M | S |
|---|---|---|---|
| Moons app.t Alt.e | | | |
| Suns app.t Alt.e | | | |
| Moons Hor: Par: | | | |
| app.t Distance | | | |
| true Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| diff.for 1 Deg: | — | | |
| diff.for ' " | — | | |
| Corr.n | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Difference — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt.e | | | |
| Stars Alt.e | | | |
| Hor: Par: | | | |
| App.t Dist.e | | | |
| True Dist.e | | | |
| d.o at ho. | | | |
| Diff.e — | | | |
| Diff.e in 3 ho. | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff.for 1 Deg. | — | | |
| Diff.for ' " | — | | |
| Corr.n | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff.e — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt.e | | | |
| Sums Alt.e | | | |
| Hor: Par: | | | |
| App.t Dist.e | | | |
| True Dist.e | | | |
| d.o at ho. | | | |
| Diff.e — | | | |
| Diff.e in 3 ho. | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff.for 1 Deg. | — | | |
| Diff.for ' " | — | | |
| Corr.n | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff.e — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt.e | | | |
| Stars Alt.e | | | |
| Hor: Par: | | | |
| App.t Dist.e | | | |
| True Dist.e | | | |
| d.o at ho. | | | |
| Diff.e — | | | |
| Diff.e in 3 ho. | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff.for 1 Deg. | — | | |
| Diff.for ' " | — | | |
| Corr.n | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff.e — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt.e | | | |
| Sums Alt.e | | | |
| Hor: Par: | | | |
| App.t Dist.e | | | |
| True Dist.e | | | |
| d.o at ho. | | | |
| Diff.e — | | | |
| Diff.e in 3 ho. | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff.for 1 Deg. | — | | |
| Diff.for ' " | — | | |
| Corr.n | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff.e — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt.e | | | |
| Stars Alt.e | | | |
| Hor: Par: | | | |
| App.t Dist.e | | | |
| True Dist.e | | | |
| d.o at ho. | | | |
| Diff.e — | | | |
| Diff.e in 3 ho. | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff.for 1 Deg. | — | | |
| Diff.for ' " | — | | |
| Corr.n | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff.e — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt.e | | | |
| Sums Alt.e | | | |
| Hor: Par: | | | |
| App.t Dist.e | | | |
| True Dist.e | | | |
| d.o at ho. | | | |
| Diff.e — | | | |
| Diff.e in 3 ho. | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff.for 1 Deg. | — | | |
| Diff.for ' " | — | | |
| Corr.n | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff.e — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt.e | | | |
| Stars Alt.e | | | |
| Hor: Par: | | | |
| App.t Dist.e | | | |
| True Dist.e | | | |
| d.o at ho. | | | |
| Diff.e — | | | |
| Diff.e in 3 ho. | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff.for 1 Deg. | — | | |
| Diff.for ' " | — | | |
| Corr.n | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff.e — | | | |

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George Margetts inv.t et del.

Published as the Act directs 1st Jan.y 1790.

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts inv.t et del.

Publish'd as the Act directs Jan. 1. 1790.

| | D | M | S | | D | M | S | | D | M | S | | D | M | S | | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Moons app:Alt: | | | | 1st Arc: | — | | | Moons app:Alt | | | | 1st Arc: | — | | | Moons app:Alt: | | | | 1st Arc: | — | | |
| Suns app:Alt: | | | | 2nd Arc: | — | | | Stars app:Alt: | | | | 2nd Arc: | — | | | Suns app:Alt: | | | | 2nd d° | — | | |
| Moons Hor:Par: | | | | Total | — | | | Moons Hor:Par: | | | | Total | — | | | Moons Hor:Par: | | | | Total. | — | | |
| App:Distance | | | | diff:for 1Deg: | — | | | App:Distance | | | | diff:for 1Deg: | — | | | App:Distance | | | | diff:for 1Deg: | — | | |
| True Distance | | | | diff:for ' " | — | | | True Distance | | | | diff:for ' " | — | | | True Distance | | | | diff:for ' " | — | | |
| d° at Hours | | | | Correction | — | | | d° at Hours | | | | Correction | — | | | d° at Hours. | | | | Correction | — | | |
| difference — | | | | Time at Greenw.h | H | M | S | difference — | | | | Time at Greenw.h | H | M | S | difference — | | | | Time at Greenw.h | H | M | S |
| d° in 3 Hours | | | | Time at Ship | | | | d° in 3 Hours | | | | Time at Ship. | | | | d° in 3 Hours | | | | Time at Ship | | | |
| Longitude | | | | Difference — | | | | Longitude | | | | Diff: — | | | | Longitude | | | | Difference — | | | |

| | D | M | S | | D | M | S | | D | M | S | | D | M | S | | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Moons Alt: | | | | 1st Arc: | — | | | Moons Alt: | | | | 1st Arc: | — | | | Moons Alt: | | | | 1st Arc: | — | | |
| Stars Alt: | | | | 2nd Arc: | — | | | Suns Alt: | | | | 2nd Arc: | — | | | Stars Alt: | | | | 2nd Arc: | — | | |
| Hor:Par: | | | | Total | — | | | Hor: Par: | | | | Total | — | | | Hor: Par: | | | | Total | — | | |
| App:Dist: | | | | Diff:for 1Deg: | — | | | App.Dist: | | | | Diff:for 1Deg. | — | | | App:Dist: | | | | Diff:for 1Deg: | — | | |
| True Dist: | | | | Diff:for ' " | — | | | True Dist: | | | | Diff:for ' " | — | | | True Dist: | | | | Diff:for ' " | — | | |
| d° at ho | | | | Corr: | — | | | d° at ho: | | | | Corr: | — | | | d° at ho: | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S | Diff: — | | | | Time at Greenw.h | H | M | S | Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff:in 3 ho: | | | | Time at Ship | | | | Diff:in 3 ho: | | | | Time at Ship | | | | Diff:in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | | Longitude | | | | Diff: — | | | | Longitude | | | | Diff: — | | | |

| | D | M | S | | D | M | S | | D | M | S | | D | M | S | | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Moons Alt: | | | | 1st Arc: | — | | | Moons Alt: | | | | 1st Arc: | — | | | Moons Alt: | | | | 1st Arc: | — | | |
| Suns Alt: | | | | 2nd Arc: | — | | | Stars Alt: | | | | 2nd Arc: | — | | | Suns Alt: | | | | 2nd Arc: | — | | |
| Hor:Par. | | | | Total | — | | | Hor:Par: | | | | Total | — | | | Hor:Par: | | | | Total | — | | |
| App:Dist: | | | | Diff:for 1Deg: | — | | | App:Dist: | | | | Diff:for 1Deg: | — | | | App:Dist: | | | | Diff:for 1Deg: | — | | |
| True Dist: | | | | Diff:for ' " | — | | | True Dist: | | | | Diff:for ' " | — | | | True Dist: | | | | Diff:for ' " | — | | |
| d° at ho | | | | Corr: | — | | | d° at ho | | | | Corr: | — | | | d° at ho | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S | Diff: — | | | | Time at Greenw.h | H | M | S | Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff:in 3 ho: | | | | Time at Ship | | | | Diff:in 3 ho: | | | | Time at Ship | | | | Diff:in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | | Longitude | | | | Diff: — | | | | Longitude | | | | Diff — | | | |

| | D | M | S | | D | M | S | | D | M | S | | D | M | S | | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Moons Alt: | | | | 1st Arc: | — | | | Moons Alt: | | | | 1st Arc: | — | | | Moons Alt: | | | | 1st Arc: | — | | |
| Stars Alt: | | | | 2nd Arc: | — | | | Suns Alt: | | | | 2nd Arc: | — | | | Stars Alt: | | | | 2nd Arc: | — | | |
| Hor:Par: | | | | Total | — | | | Hor Par: | | | | Total | — | | | Hor:Par: | | | | Total | — | | |
| App:Dist: | | | | Diff:for 1Deg: | — | | | App Dist: | | | | Diff:for 1Deg: | — | | | App:Dist: | | | | Diff:for 1Deg: | — | | |
| True Dist | | | | Diff:for ' " | — | | | True Dist: | | | | Diff:for ' " | — | | | True Dist: | | | | Diff:for ' " | — | | |
| d° at ho | | | | Corr: | — | | | d° at ho: | | | | Corr: | — | | | d° at ho | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S | Diff: — | | | | Time at Green.h | H | M | S | Diff: — | | | | Time at Green.h | H | M | S |
| Diff:in 3 ho: | | | | Time at Ship | | | | Diff:in 3 ho: | | | | Time at Ship | | | | Diff:in 3 ho. | | | | Time at Ship | | | |
| Longitude | | | | Diff: | | | | Longitude | | | | Diff: — | | | | Longitude | | | | Diff: — | | | |

| | D | M | S | | D | M | S | | D | M | S | | D | M | S | | D | M | S | | D | M | S |
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| Moons Alt: | | | | 1st Arc: | — | | | Moons Alt: | | | | 1st Arc: | — | | | Moons Alt: | | | | 1st Arc: | — | | |
| Suns Alt: | | | | 2nd Arc: | — | | | Stars Alt: | | | | 2nd Arc: | — | | | Suns Alt: | | | | 2nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | | Hor:Par: | | | | Total | — | | | Hor:Par: | | | | Total | — | | |
| App:Dist: | | | | Diff:for 1Deg: | — | | | App:Dist: | | | | Diff:for 1Deg | — | | | App:Dist: | | | | Diff:for 1Deg: | — | | |
| True Dist: | | | | Diff:for ' " | — | | | True Dist: | | | | Diff:for ' " | — | | | True Dist: | | | | Diff:for ' " | — | | |
| d° at ho: | | | | Corr: | — | | | d° at ho | | | | Corr: | — | | | d° at ho | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S | Diff: — | | | | Time at Green.h | H | M | S | Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | | Diff:in 3 ho: | | | | Time at Ship | | | | Diff:in 3 ho. | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | | Longitude | | | | Diff: — | | | | Longitude | | | | Diff: | | | |

80 70 60 50 40 30 20 10

29

George Margetts inv.t et del.t

45 40 30 20 10 0 10 20 30 40

90 80 70 60 50 40 30 20 10 0

8 7 6 5 4 3 2 1 0 1 2 3 4 5 6 7 8

Published as the Act directs Jan.y 1st 1790

80 70 60 50 40 30 20 10

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts inv.t et del.

Publish'd as the Act directs Jun.1.1790.

| | D | M | S |
|---|---|---|---|
| Moons app:Alt: | | | |
| Suns app:Alt: | | | |
| Moons Hor:Par: | | | |
| App:Distance | | | |
| True Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
| diff: for 1 Deg: | — | | |
| diff: for ' " | — | | |
| Correction | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Difference — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt: | | | |
| Stars Alt: | | | |
| Hor: Par: | | | |
| App: Dist: | | | |
| True Dist: | | | |
| d.o at ho: | | | |
| Diff: — | | | |
| Diff: in 3 ho: | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
| Diff: for 1 Deg: | — | | |
| Diff: for ' " | — | | |
| Corr: | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff: — | | | |

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| Moons Alt: | | | |
| Suns Alt: | | | |
| Hor: Par: | | | |
| App: Dist: | | | |
| True Dist: | | | |
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| Longitude | | | |

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| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
| Diff: for 1 Deg: | — | | |
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| Corr: | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
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| Moons Alt: | | | |
| Stars Alt: | | | |
| Hor: Par: | | | |
| App: Dist: | | | |
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| Diff: — | | | |
| Diff: in 3 ho: | | | |
| Longitude | | | |

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| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
| Diff: for 1 Deg: | — | | |
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| Corr: | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
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| | D | M | S |
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| Moons Alt: | | | |
| Suns Alt: | | | |
| Hor: Par: | | | |
| App: Dist: | | | |
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| Diff: — | | | |
| Diff: in 3 ho: | | | |
| Longitude | | | |

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| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
| Diff: for 1 Deg: | — | | |
| Diff: for ' " | — | | |
| Corr: | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff: — | | | |

| | D | M | S |
|---|---|---|---|
| Moons app:Alt: | | | |
| Stars app:Alt: | | | |
| Moons Hor:Par: | | | |
| App:Distance | | | |
| True Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

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|---|---|---|---|
| 1.st Arc: | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| diff: for 1 Deg: | — | | |
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| Correction | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship. | | | |
| Diff: — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt: | | | |
| Suns Alt: | | | |
| Hor. Par: | | | |
| App. Dist: | | | |
| True Dist: | | | |
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| 1.st Arc: | — | | |
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| Time at Greenw.h | H | M | S |
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| Moons Alt: | | | |
| Stars Alt: | | | |
| Hor: Par: | | | |
| App: Dist: | | | |
| True Dist: | | | |
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| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
| Diff: for 1 Deg: | — | | |
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| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
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| Moons Alt: | | | |
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| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
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| Moons Alt: | | | |
| Stars Alt: | | | |
| Hor: Par: | | | |
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| True Dist: | | | |
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| Time at Greenw.h | H | M | S |
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| Suns Alt: | | | |
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| App: Dist: | | | |
| True Dist: | | | |
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| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
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| Time at Ship | | | |
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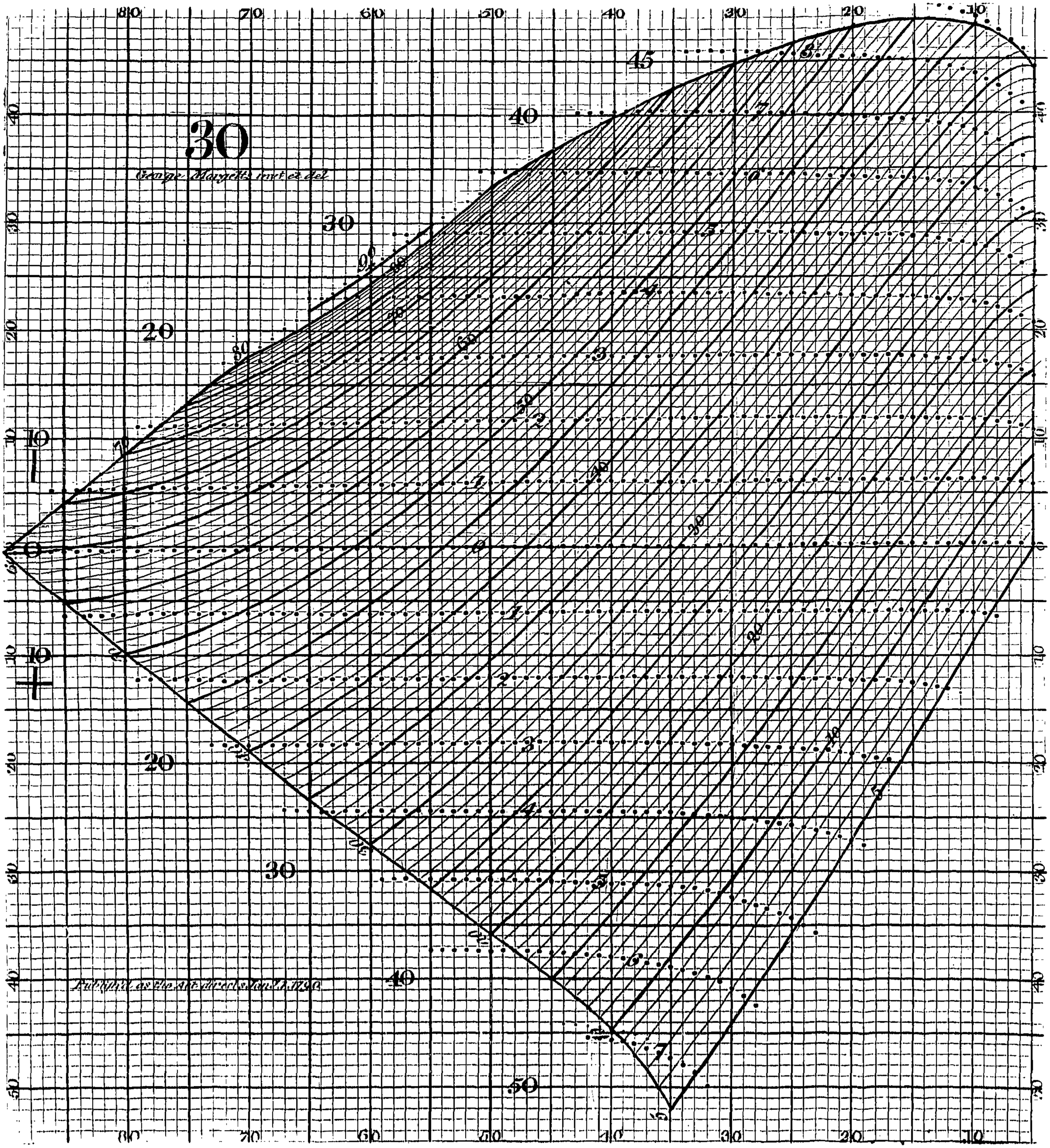
30
Grange Mayette inv.t et del
Published as the Act directs Jan.y 1.1790

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts inv.t et del.

Publish'd as the Act directs Jan.y 1.1790.

| | D | M | S |
|---|---|---|---|
| Moons app.Alt: | | | |
| Suns app.Alt: | | | |
| Moons Hor.Par: | | | |
| App.Distance | | | |
| True Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
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| Correction | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Difference — | | | |

| | D | M | S |
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| Moons app.Alt: | | | |
| Stars app.Alt: | | | |
| Moons Hor.Par: | | | |
| App.Distance | | | |
| True Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

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| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
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| Time at Greenw.h | H | M | S |
| Time at Ship. | | | |
| Diff: — | | | |

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| Moons app.Alt: | | | |
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| d.o in 3 Hours | | | |
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| Total. | — | | |
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| Correction | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Difference — | | | |

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| Moons Alt: | | | |
| Stars Alt: | | | |
| Hor: Par: | | | |
| App: Dist: | | | |
| True Dist: | | | |
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| Moons Alt: | | | |
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| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
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| Moons Alt: | | | |
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| App: Dist: | | | |
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| Moons Alt: | | | |
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| 2.nd Arc: | — | | |
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| Time at Greenw.h | H | M | S |
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| Moons Alt: | | | |
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| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
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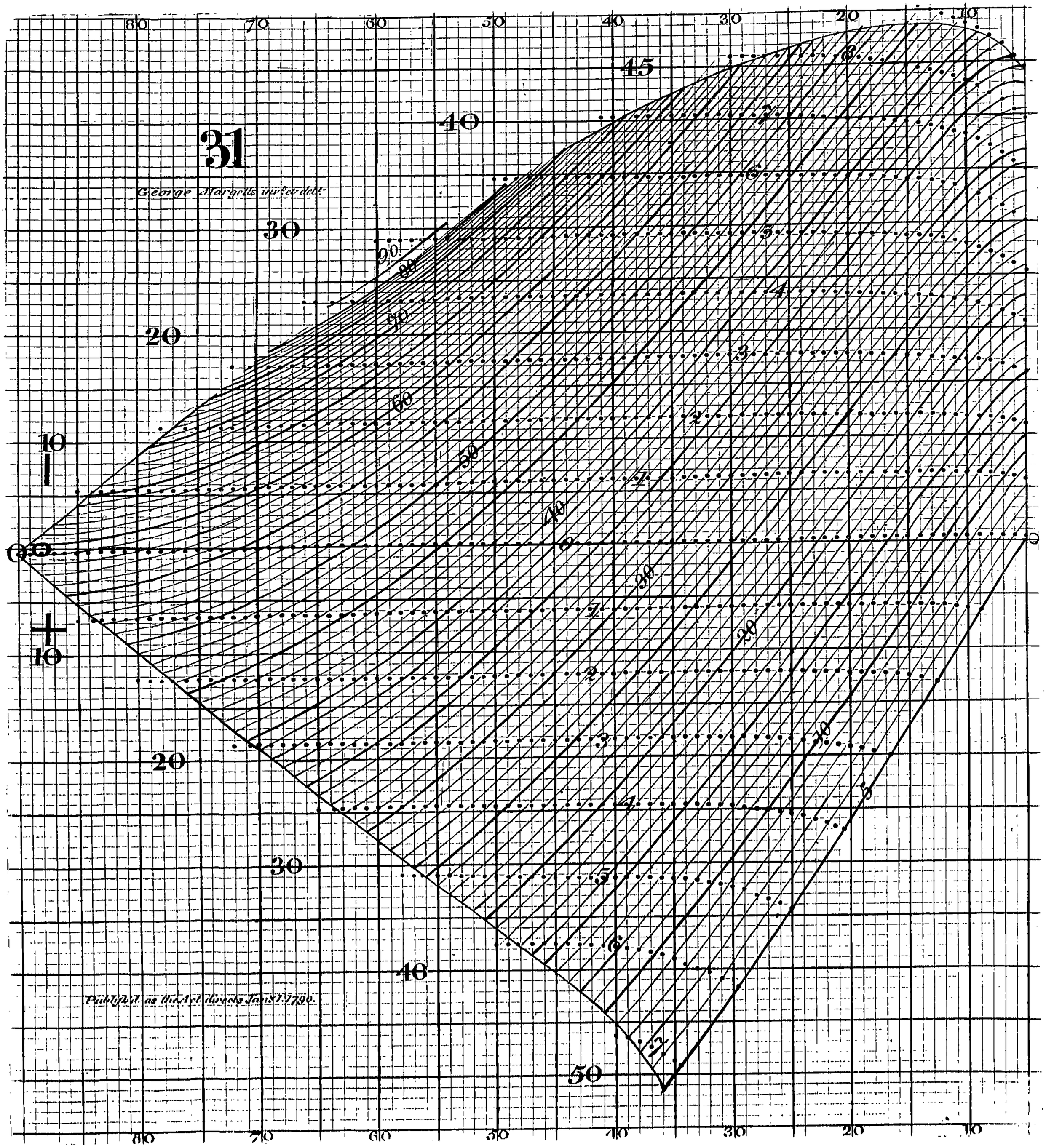
31
George Marcus inv.et del.
Published as the Act directs Jan.1st 1790.

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George Margetts inv.et del.

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| | D | M | S |
|---|---|---|---|
| Moons app.Alt: | | | |
| Suns app.Alt: | | | |
| Moons Hor.Par: | | | |
| App.Distance | | | |
| True Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
| diff: for 1 Deg: | — | | |
| diff: for ' " | — | | |
| Correction | — | | |
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Difference — | | | |

| | D | M | S |
|---|---|---|---|
| Moons app.Alt: | | | |
| Stars app.Alt: | | | |
| Moons Hor.Par: | | | |
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| True Distance | | | |
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| difference — | | | |
| d.o in 3 Hours | | | |
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| 2.nd Arc: | — | | |
| Total | — | | |
| diff: for 1 Deg: | — | | |
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| Diff: — | | | |

| | D | M | S |
|---|---|---|---|
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| Suns app.Alt: | | | |
| Moons Hor.Par: | | | |
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| App: Dist: | | | |
| True Dist: | | | |
| d.o at ho: | | | |
| Diff: — | | | |
| Diff: in 3 ho: | | | |
| Longitude | | | |

| | D | M | S |
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| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
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| App: Dist: | | | |
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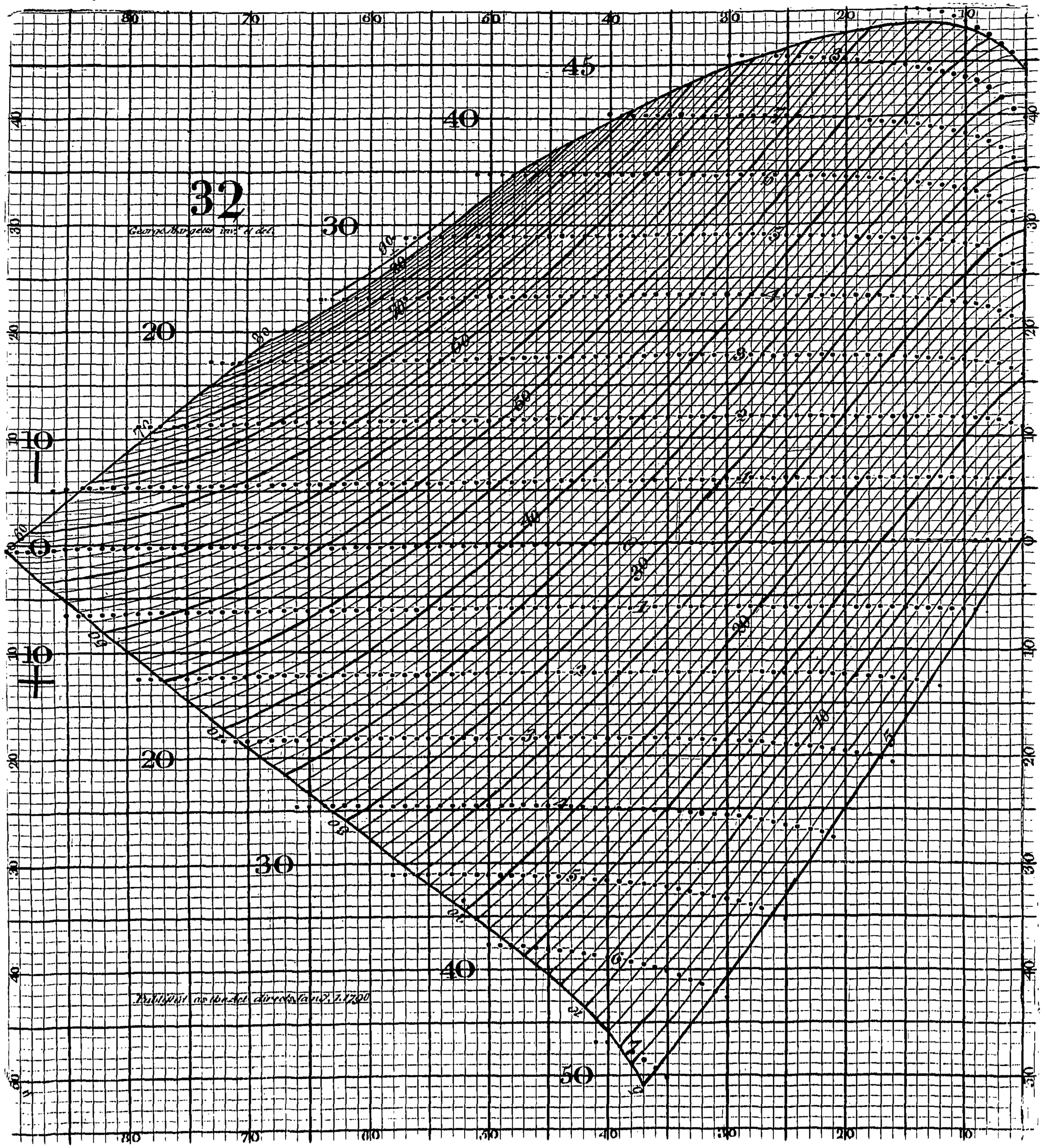
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Georg. Margetts inv.t & del.
Published as the Act directs Jan.y 1.1790

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts inv.t et del.

Publish'd as the Act directs Jan.y 1.1790.

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| Moons app.Alt: | | | | 1.st Arc: | — | | |
| Suns app.Alt: | | | | 2.nd Arc: | — | | |
| Moons Hor.Par: | | | | Total | — | | |
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| Stars app.Alt: | | | | 2.nd Arc: | — | | |
| Moons Hor.Par: | | | | Total | — | | |
| App.Distance | | | | diff: for 1 Deg: | — | | |
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George Margetts invt del.t

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Published as the Act directs 1st Jan.y 1709

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star, & the Apparent Altitudes of their Centers.

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Published as the Act directs Jan.y 1.1790.

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George Margetts inv.t et del.

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# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts inv.t & titel.

Publish'd as the Act directs Jan.y 1.1790.

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| Moons app:Alt: | | | |
| Suns app:Alt: | | | |
| Moons Hor: Par: | | | |
| App: Distance | | | |
| True Distance | | | |
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| d.o in 3 Hours | | | |
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| diff: for 1 Deg: | — | | |
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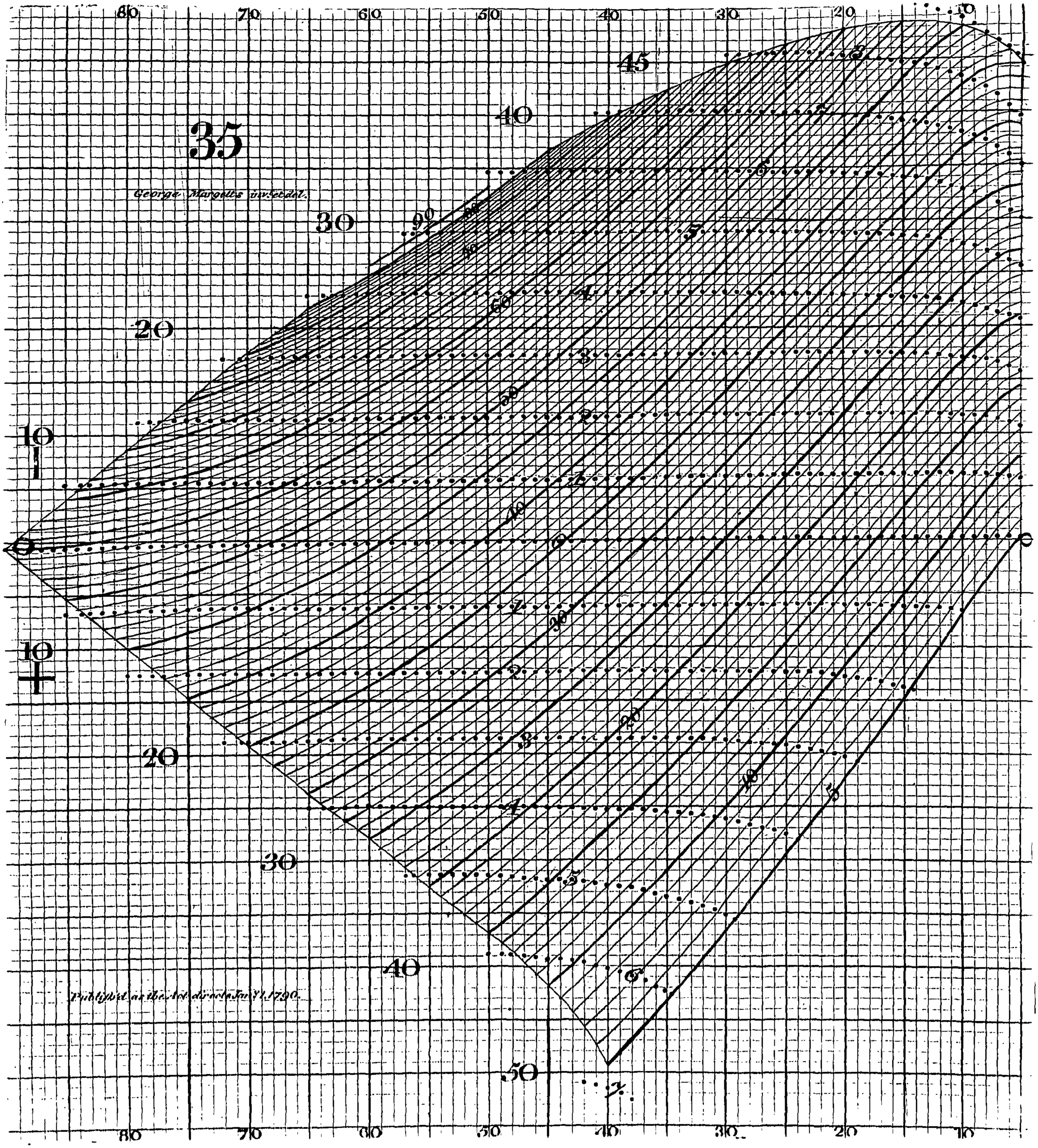
George Margetts inv.et del.
Published as the Act directs 1st 1790.

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts inv.t et del. — Publish'd as the Act directs Jan.y 1.1790.

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| Moons app. Alt. | | | |
| Suns app. Alt. | | | |
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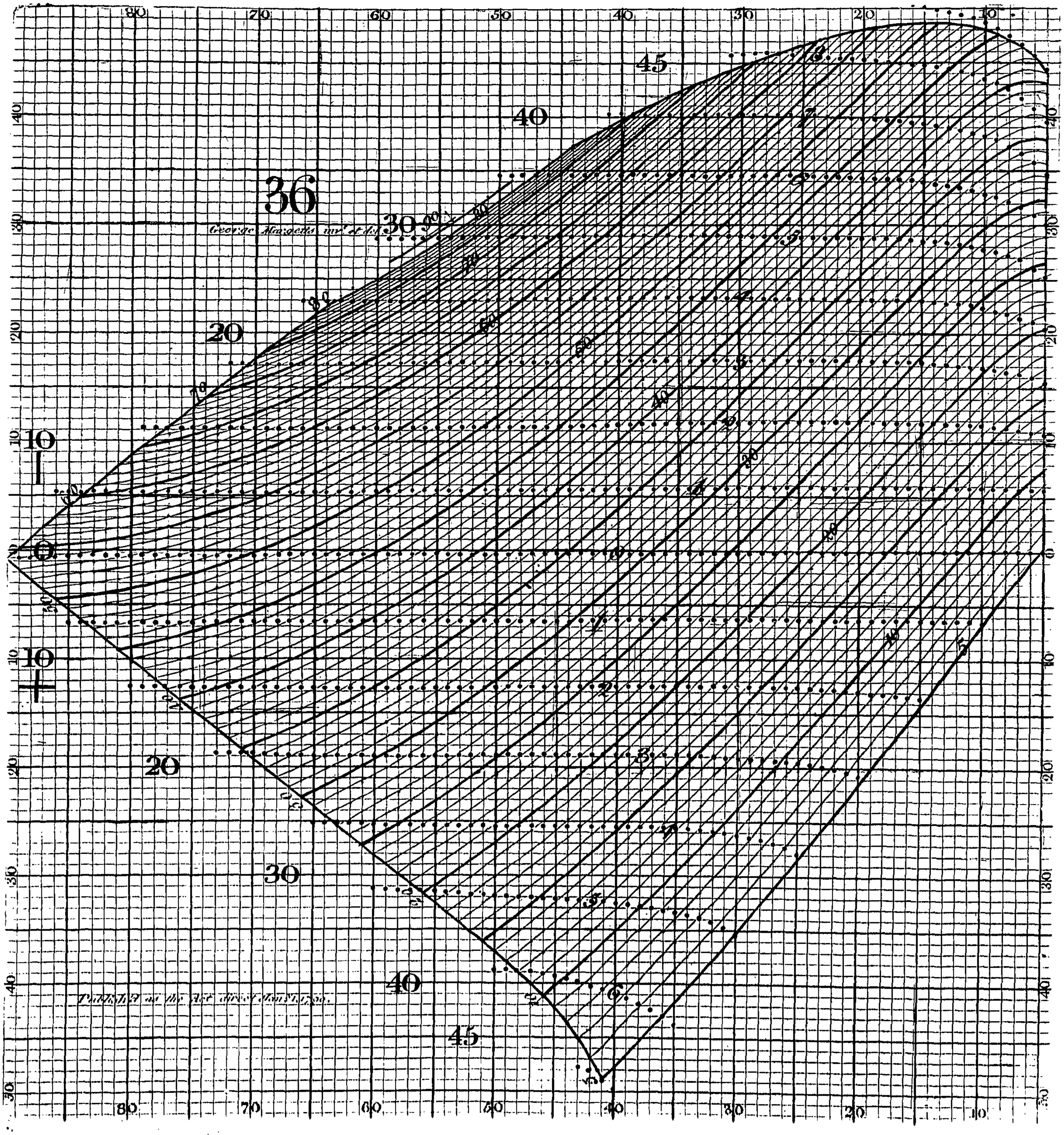
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George Maigetts inv.t et del.t
Published as the Act directs.

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts inv.t et del.

Published as the Act directs Jan.y 1.1790.

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| | D | M | S | | D | M | S |
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| Moons Alt: | | | | 1.st Arc: | — | | |
| Stars Alt: | | | | 2.nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| d.o at ho | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | |

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| Moons Alt: | | | | 1.st Arc: | — | | |
| Suns Alt: | | | | 2.nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
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| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: | | | |

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George Margetts inv.et del.

Published as the Act directs June 1.1790.

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts inv.t et del.

Publish'd as the Act directs Jan.y 1.1790.

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons app.Alt: | | | | 1.st Arc: | — | | |
| Suns app.Alt: | | | | 2.nd Arc: | — | | |
| Moons Hor.Par: | | | | Total | — | | |
| App.Distance | | | | diff: for 1 Deg: | — | | |
| True Distance | | | | diff: for ′ ″ | — | | |
| d.o at Hours | | | | Correction | — | | |
| difference — | | | | Time at Greenw.h | H | M | S |
| d.o in 3 Hours | | | | Time at Ship | | | |
| Longitude | | | | Difference — | | | |

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| Stars app.Alt: | | | | 2.nd Arc: | — | | |
| Moons Hor.Par: | | | | Total | — | | |
| App.Distance | | | | diff: for 1 Deg: | — | | |
| True Distance | | | | diff: for ′ ″ | — | | |
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| difference — | | | | Time at Greenw.h | H | M | S |
| d.o in 3 Hours | | | | Time at Ship. | | | |
| Longitude | | | | Diff: — | | | |

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| Suns app.Alt: | | | | 2.nd d.o | — | | |
| Moons Hor.Par: | | | | Total. | — | | |
| App.Distance | | | | diff: for 1 Deg: | — | | |
| True Distance | | | | diff: for ′ ″ | — | | |
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| Stars Alt: | | | | 2.nd Arc: | — | | |
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George Margetts invt. et del.

Published as the Act directs 1st Nov. 1790

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

*Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star, & the Apparent Altitudes of their Centers.*

George Margetts inv.t et del.

Publishid as the Act directs Jun.1.1790.

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| Moons app.Alt: | | | | 1st Arc: | — | | |
| Suns app.Alt: | | | | 2nd Arc: | — | | |
| Moons Hor.Par: | | | | Total | — | | |
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| Stars Alt: | | | | 2nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
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| Suns Alt: | | | | 2nd Arc: | — | | |
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| Stars Alt: | | | | 2nd Arc: | — | | |
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| Stars Alt: | | | | 2nd Arc: | — | | |
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| Stars Alt: | | | | 2nd Arc: | — | | |
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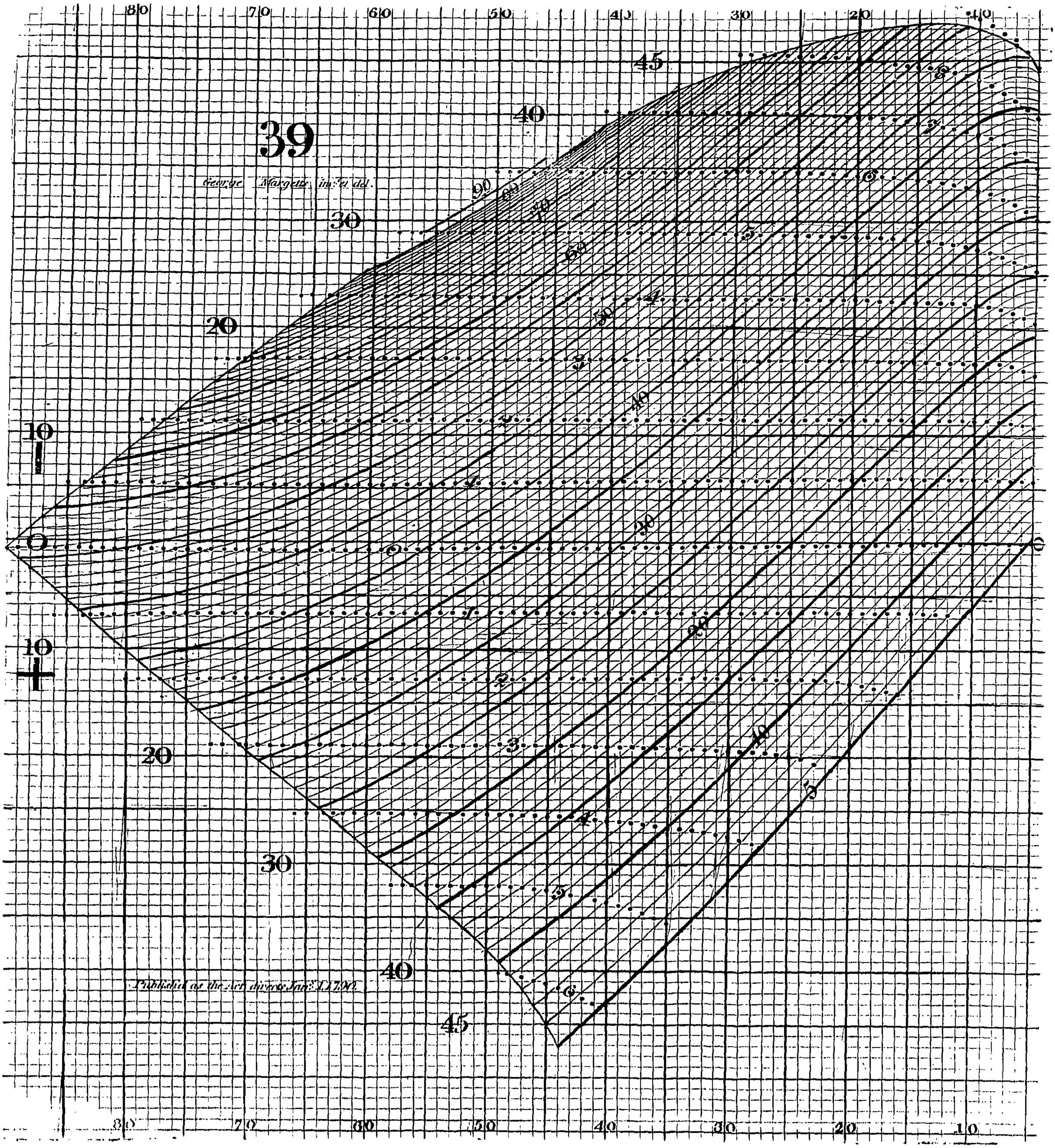
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George Margetts inv.et del.
Published as the Act directs June 1.1780.

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star, & the Apparent Altitudes of their Centers.

George Margetts inv.t et del.

Published at the Act directs Jan.r 1790.

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| Moons app. Alt. | | | |
| Suns app Alt. | | | |
| Moons Hor Par: | | | |
| app. Distance | | | |
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| Stars app Alt. | | | |
| Moons Hor: Par: | | | |
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| | D | M | S |
|---|---|---|---|
| Moons Alt. | | | |
| Suns Alt. | | | |
| Hor: Par: | | | |
| App. Dist. | | | |
| True Dist. | | | |
| d.o at ho. | | | |
| Diff. — | | | |
| Diff. in 3 ho. | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ' " | — | | |
| Corr: | — | | |
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Diff. — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt. | | | |
| Stars Alt. | | | |
| Hor: Par: | | | |
| App. Dist. | | | |
| True Dist. | | | |
| d.o at ho. | | | |
| Diff. — | | | |
| Diff. in 3 ho. | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ' " | — | | |
| Corr: | — | | |
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Diff. — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt. | | | |
| Suns Alt. | | | |
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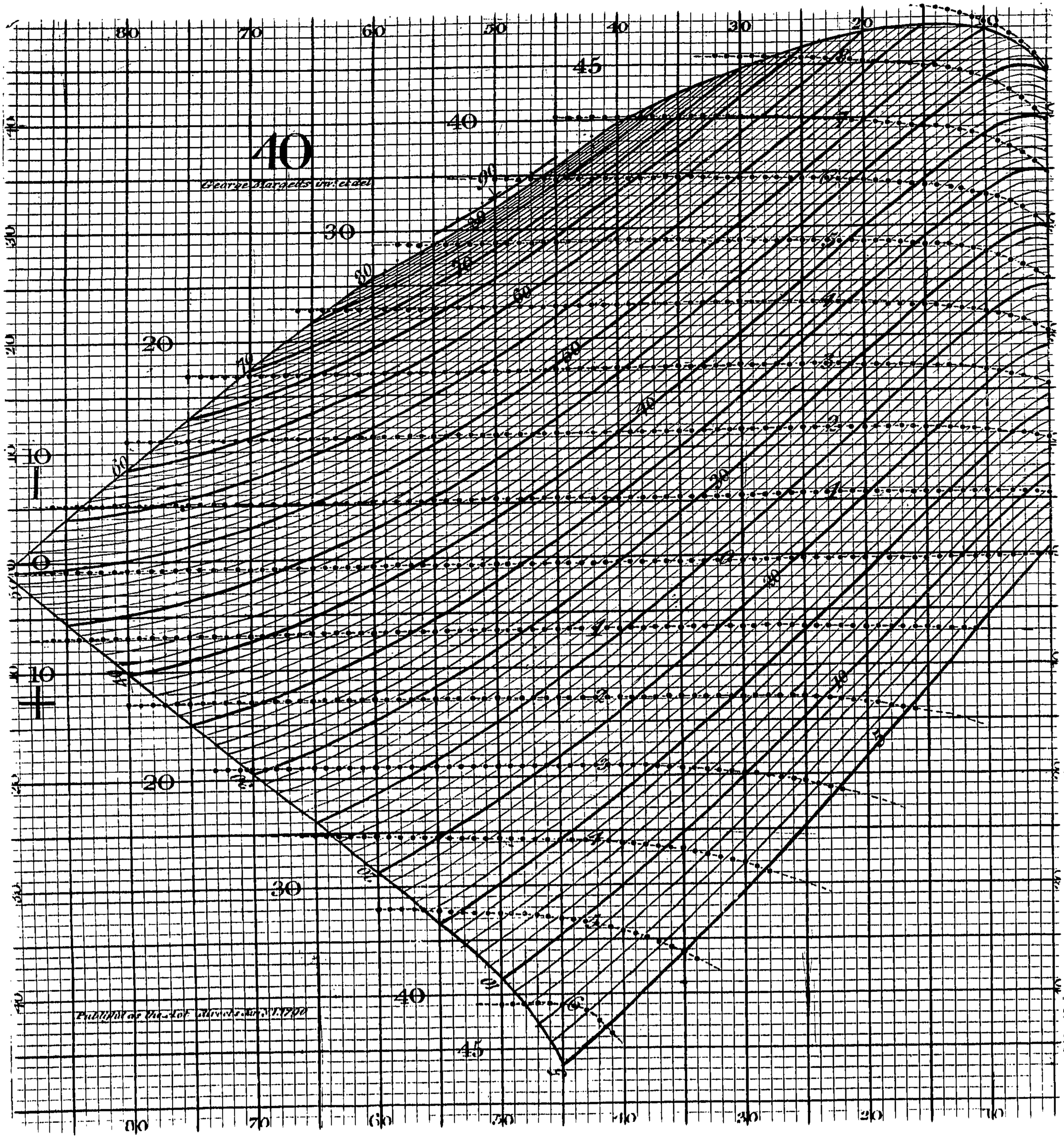
| App. Dist. | | | |
| True Dist. | | | |
| d.o at ho. | | | |
| Diff. — | | | |
| Diff. in 3 ho. | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ' " | — | | |
| Corr: | — | | |
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Diff. — | | | |


10
George Margetts inv. et del.
Published as the Act directs June 1st 1790

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts inventor.

Published as the Act directs Jan.y 1.1790.

| | D | M | S |
|---|---|---|---|
| Moons app:Alt: | | | |
| Suns app:Alt: | | | |
| Moons Hor:Par: | | | |
| App:Distance | | | |
| True Distance | | | |
| d.º at Hours | | | |
| difference — | | | |
| d.º in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
| diff: for 1 Deg: | — | | |
| diff: for ' " | — | | |
| Correction | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Difference — | | | |

| | D | M | S |
|---|---|---|---|
| Moons app:Alt: | | | |
| Stars app:Alt: | | | |
| Moons Hor:Par: | | | |
| App:Distance | | | |
| True Distance | | | |
| d.º at Hours | | | |
| difference — | | | |
| d.º in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
| diff: for 1 Deg: | — | | |
| diff: for ' " | — | | |
| Correction | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship. | | | |
| Diff: — | | | |

| | D | M | S |
|---|---|---|---|
| Moons app:Alt: | | | |
| Suns app:Alt: | | | |
| Moons Hor:Par: | | | |
| App:Distance | | | |
| True Distance | | | |
| d.º at Hours. | | | |
| difference — | | | |
| d.º in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc: | — | | |
| 2.nd d.º | — | | |
| Total. | — | | |
| diff: for 1 Deg: | — | | |
| diff: for ' " | — | | |
| Correction | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Difference — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt: | | | |
| Stars Alt: | | | |
| Hor: Par: | | | |
| App: Dist: | | | |
| True Dist: | | | |
| d.º at ho: | | | |
| Diff: — | | | |
| Diff: in 3 ho: | | | |
| Longitude | | | |

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| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
| Diff: for 1 Deg: | — | | |
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| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
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| | D | M | S |
|---|---|---|---|
| Moons Alt: | | | |
| Suns Alt: | | | |
| Hor. Par: | | | |
| App. Dist: | | | |
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| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
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| Diff: for 1 Deg: | — | | |
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| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff: — | | | |

| | D | M | S |
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| Moons app:Alt: | | | |
| Suns app:Alt: | | | |
| Moons Hor:Par: | | | |
| App:Distance | | | |
| True Distance | | | |
| d.º at Hours. | | | |
| difference — | | | |
| d.º in 3 Hours | | | |
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| Time at Greenw.h | H | M | S |
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| Moons Alt: | | | |
| Stars Alt: | | | |
| Hor: Par: | | | |
| App: Dist: | | | |
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| 2.nd Arc: | — | | |
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| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
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| Moons Alt: | | | |
| Suns Alt: | | | |
| Hor: Par: | | | |
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| 2.nd Arc: | — | | |
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| Diff: for 1 Deg: | — | | |
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| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
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| | D | M | S |
|---|---|---|---|
| Moons app:Alt: | | | |
| Suns app:Alt: | | | |
| Moons Hor:Par: | | | |
| App:Distance | | | |
| True Distance | | | |
| d.º at Hours. | | | |
| difference — | | | |
| d.º in 3 Hours | | | |
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| 2.nd Arc: | — | | |
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| Time at Greenw.h | H | M | S |
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| Moons Alt: | | | |
| Stars Alt: | | | |
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| App: Dist: | | | |
| True Dist: | | | |
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| Moons Alt: | | | |
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| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
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| Moons Alt: | | | |
| Stars Alt: | | | |
| Hor: Par: | | | |
| App: Dist: | | | |
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| Time at Ship | | | |
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| Suns Alt: | | | |
| Hor: Par: | | | |
| App: Dist: | | | |
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| Longitude | | | |

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| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff: | | | |

| | D | M | S |
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| Moons Alt: | | | |
| Stars Alt: | | | |
| Hor: Par: | | | |
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| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
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| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
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| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
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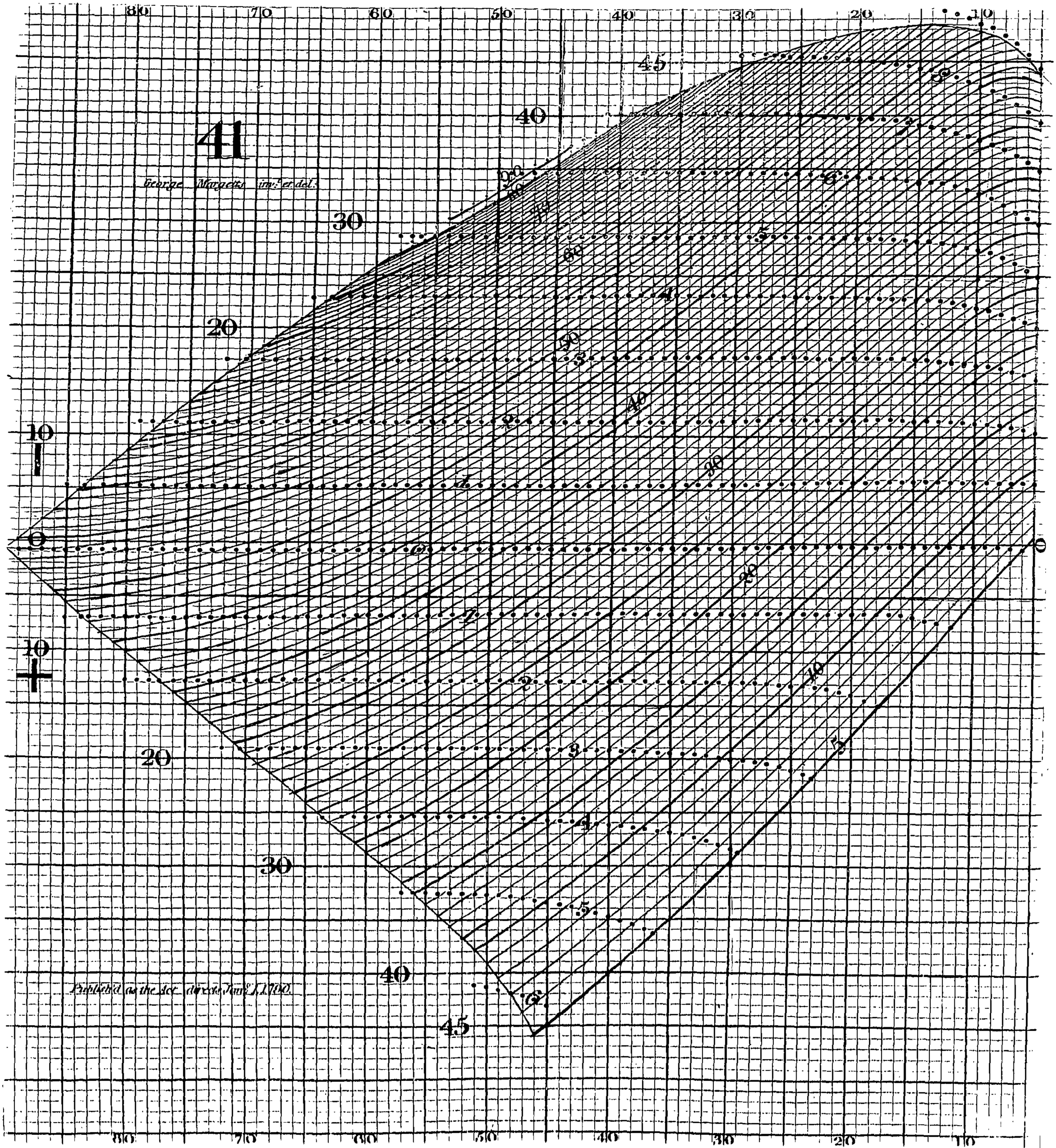
80
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41
George Margetts imp.er del.
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45
Published as the Act directs June 1, 1790.

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts inv.t et del.

Publish'd as the Act directs Jun.1.1790.

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons app:Alt: | | | | 1.st Arc: | — | | |
| Suns app:Alt: | | | | 2.nd Arc: | — | | |
| Moons Hor.Par: | | | | Total | — | | |
| App: Distance | | | | diff: for 1 Deg: | — | | |
| True Distance | | | | diff: for ′ ″ | — | | |
| d.o at Hours | | | | Correction | — | | |
| difference — | | | | Time at Greenw.h | H | M | S |
| d.o in 3 Hours | | | | Time at Ship | | | |
| Longitude | | | | Difference — | | | |

| | D | M | S | | D | M | S |
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| Moons Alt: | | | | 1.st Arc: | — | | |
| Stars Alt: | | | | 2.nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| d.o at ho | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
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| Longitude | | | | Diff: — | | | |

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| Moons Alt: | | | | 1.st Arc: | — | | |
| Suns Alt: | | | | 2.nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
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| Moons Alt: | | | | 1.st Arc: | — | | |
| Stars Alt: | | | | 2.nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
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| Suns Alt: | | | | 2.nd Arc: | — | | |
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| Stars Alt: | | | | 2.nd Arc: | — | | |
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| Moons Alt: | | | | 1.st Arc: | — | | |
| Suns Alt: | | | | 2.nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
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| Stars Alt: | | | | 2.nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
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| Suns Alt: | | | | 2.nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
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| | D | M | S | | D | M | S |
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| Moons Alt: | | | | 1.st Arc: | — | | |
| Stars Alt: | | | | 2.nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
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| App: Dist: | | | | Diff: for 1 Deg: | — | | |
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| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | |

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| Moons Alt: | | | | 1.st Arc: | — | | |
| Stars Alt: | | | | 2.nd Arc: | — | | |
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| App: Dist: | | | | Diff: for 1 Deg: | — | | |
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| Moons Alt: | | | | 1.st Arc: | — | | |
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| Longitude | | | | Diff: — | | | |

| | D | M | S | | D | M | S |
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| Moons Alt: | | | | 1.st Arc: | — | | |
| Stars Alt: | | | | 2.nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
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| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | |

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George Sharpless invent. del.

Published as the Act directs Jan.y 1.1770

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts inv:et del.

Publishid as the Act directs Jan:1.1790.

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons app:Alt: | | | | 1st Arc: | — | | |
| Suns app:Alt: | | | | 2nd Arc: | — | | |
| Moons Hor:Par: | | | | Total | — | | |
| App:Distance | | | | diff:for 1 Deg: | — | | |
| True Distance | | | | diff:for ′ ″ | — | | |
| dº at Hours | | | | Correction | — | H | M | S |
| difference — | | | | Time at Greenwh. | h | | | |
| dº in 3 Hours | | | | Time at Ship | | | |
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George Margetts inv.t et delt.

Published as the Act directs Jan.y 1.1790.

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts inv.t et del. — Publish'd at the Act directs Jan.y 1.1790.

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| Moons app. Alt. | | | |
| Suns app Alt. | | | |
| Moons Hor Par: | | | |
| app. Distance | | | |
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| d.o in 3 Hours | | | |
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| Time at Greenw.h | | | |
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| Stars app. Alt. | | | |
| Moons Hor. Par. | | | |
| app. Distance | | | |
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George Margetts inv.et del.

Anthon de Mudt sculp. Amst. 1790.

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts invt. et del.

Published as the Act directs Jun.1.1790.

| | D | M | S |
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| Moons app:Alt: | | | |
| Suns app:Alt: | | | |
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| Time at Ship | | | |
| Diff: — | | | |

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| Suns Alt: | | | |
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| Total | — | | |
| Diff: for 1 Deg: | — | | |
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| Time at Greenwh: | H | M | S |
| Time at Ship | | | |
| Diff: — | | | |

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| Moons Alt: | | | |
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| Hor: Par: | | | |
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99 80 90 60 50 40 30 20 10 5 4 3 2 1 0 30 20 10 5 4 3 2 1 5

George Margetts inv.et del.t

Published as the Act directs Jan.y 21.1800.

80 70 60 50 40 30 20 10

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS.

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star, & the Apparent Altitudes of their Centers.

George Margetts invt et del. — Published as the Act directs Jan.y 1.1790.

| | D | M | S |
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| Moons app. Alt. | | | |
| Suns app. Alt. | | | |
| Moons Hor. Par: | | | |
| app. Distance | | | |
| true Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

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| Correction | — | | |
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| Time at Ship | | | |
| Difference — | | | |

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| Moons app. Alt. | | | |
| Stars app. Alt. | | | |
| Moons Hor. Par: | | | |
| app. Distance | | | |
| true Distance | | | |
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| difference — | | | |
| d.o in 3 Hours | | | |
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| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
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| Moons app. Alt. | | | |
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| Moons Hor. Par: | | | |
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| d.o in 3 Hours | | | |
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Groupe Mercatis du Fd. de

Publié par The Lit. Digests, Jan. 1, 1700

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers:

George Margetts inv.t et del.

Publish'd as the Act directs Jan.y 1.1790.

| | D | M | S |
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| Moons app:Alt: | | | |
| Suns app:Alt: | | | |
| Moons Hor: Par: | | | |
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| d.o in 3 Hours | | | |
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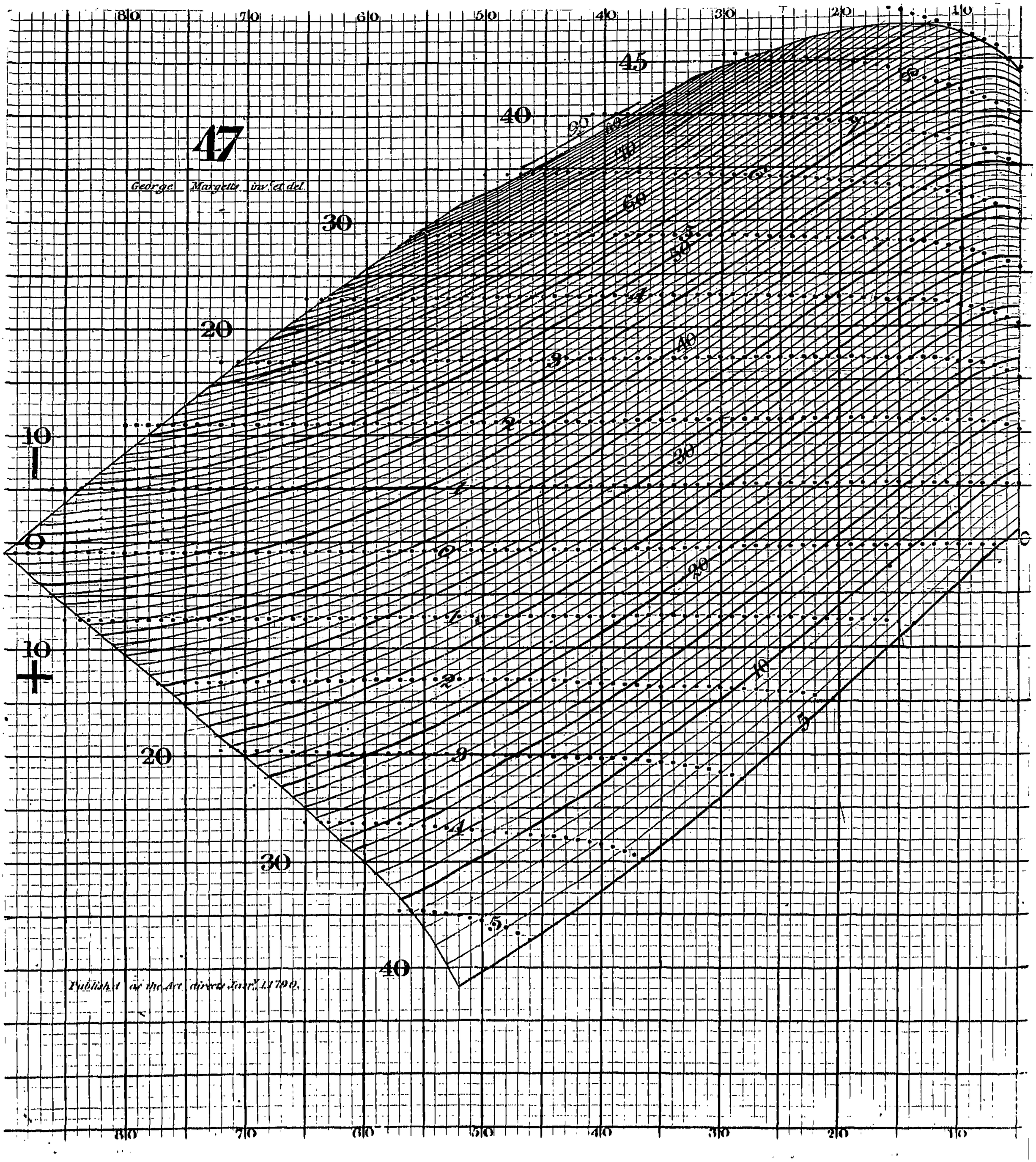
47
George Margetts inv.et del.
Published as the Act directs Jan.y 1.1790.

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts inv.t et del.

Publish'd as the Act directs June 1.1790.

| | D | M | S |
|---|---|---|---|
| Moons app. Alt. | | | |
| Suns app Alt. | | | |
| Moons Hor Par: | | | |
| app. Distance | | | |
| true Distance | | | |
| D.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

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| Stars app.Alt. | | | |
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| Suns Alt. | | | |
| Hor: Par: | | | |
| App. Dist. | | | |
| True Dist. | | | |
| d.o at bo. | | | |
| Diff. — | | | |
| Diff. in 3 bo. | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ' " | — | | |
| Corr: | — | | |
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Diff. — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt. | | | |
| Stars Alt. | | | |
| Hor: Par: | | | |
| App. Dist. | | | |
| True Dist. | | | |
| d.o at bo. | | | |
| Diff. — | | | |
| Diff. in 3 bo. | | | |
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| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
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| Corr: | — | | |
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| Time at Greenw.h | | | |
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| | D | M | S |
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| Moons Alt. | | | |
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| Time at Greenw.h | | | |
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| Stars Alt. | | | |
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| 2.nd Arc. | — | | |
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| Time at Greenw.h | | | |
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| Time at Greenw.h | | | |
| Time at Ship | | | |
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| Stars Alt. | | | |
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| Time at Greenw.h | | | |
| Time at Ship | | | |
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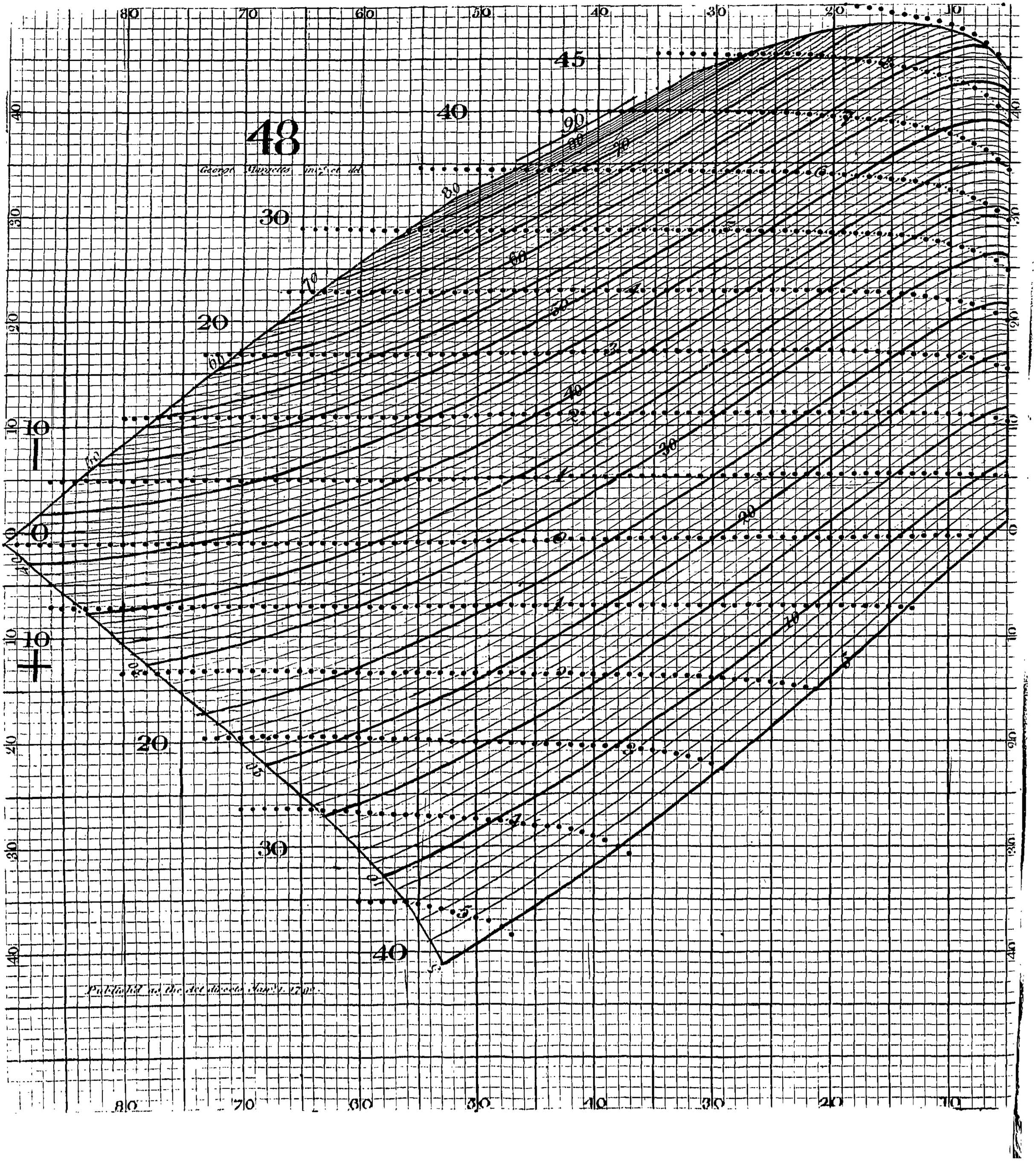
48
George Margetts inv.t et del.
Published as the Act directs Jan.y 1. 1790.

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

*Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.*

*George Margetts inv.t et del.* *Published as the Act directs Jun.1.1790.*

| | D | M | S |
|---|---|---|---|
| Moons *app:Alt:* | | | |
| Suns *app:Alt:* | | | |
| *Moons Hor:Par:* | | | |
| *app: Distance* | | | |
| *True Distance* | | | |
| *d:o at Hours* | | | |
| *difference —* | | | |
| *d:o in 3 Hours* | | | |
| *Longitude* | | | |

| | D | M | S |
|---|---|---|---|
| *1:st Arc:* | — | | |
| *2:nd Arc:* | — | | |
| *Total* | — | | |
| *diff: for 1 Deg:* | — | | |
| *diff: for ' "* | — | | |
| *Correction* | — | | |
| | H | M | S |
| *Time at Greenw:* h | | | |
| *Time at Ship* | | | |
| *Difference —* | | | |

| | D | M | S |
|---|---|---|---|
| Moons *app:Alt:* | | | |
| Stars *app:Alt:* | | | |
| *Moons Hor:Par:* | | | |
| *App: Distance* | | | |
| *True Distance* | | | |
| *d:o at Hours* | | | |
| *difference —* | | | |
| *d:o in 3 Hours* | | | |
| *Longitude* | | | |

| | D | M | S |
|---|---|---|---|
| *1:st Arc:* | — | | |
| *2:nd Arc:* | — | | |
| *Total* | — | | |
| *diff: for 1 Deg:* | — | | |
| *diff: for ' "* | — | | |
| *Correction* | — | | |
| | H | M | S |
| *Time at Greenw:* h | | | |
| *Time at Ship.* | | | |
| *Diff:* — | | | |

| | D | M | S |
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| Moons *app:Alt:* | | | |
| Suns *app:Alt:* | | | |
| *Moons Hor:Par:* | | | |
| *App:Distance* | | | |
| *True Distance* | | | |
| *d:o at Hours.* | | | |
| *difference —* | | | |
| *d:o in 3 Hours* | | | |
| *Longitude* | | | |

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| *1:st Arc:* | — | | |
| *2:nd d:o* | — | | |
| *Total* | — | | |
| *diff: for 1 Deg:* | — | | |
| *diff: for ' "* | — | | |
| *Correction* | — | | |
| | H | M | S |
| *Time at Greenw:* h | | | |
| *Time at Ship* | | | |
| *Difference —* | | | |

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| Moons *Alt:* | | | |
| Stars *Alt:* | | | |
| *Hor: Par:* | | | |
| *App: Dist:* | | | |
| *True Dist:* | | | |
| *d:o at ho* | | | |
| *Diff:* — | | | |
| *Diff: in 3 ho:* | | | |
| *Longitude* | | | |

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| *1:st Arc:* | — | | |
| *2:nd Arc:* | — | | |
| *Total* | — | | |
| *Diff: for 1 Deg:* | — | | |
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| *Corr:* | — | | |
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| *Time at Ship* | | | |
| *Diff:* — | | | |

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| Moons *Alt:* | | | |
| Suns *Alt:* | | | |
| *Hor: Par:* | | | |
| *App: Dist:* | | | |
| *True Dist:* | | | |
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| *Diff:* — | | | |
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| *Longitude* | | | |

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| *Time at Greenw:* h | | | |
| *Time at Ship* | | | |
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| Moons *Alt:* | | | |
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| *App: Dist:* | | | |
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| *Time at Greenw:* h | | | |
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| Moons *Alt:* | | | |
| Suns *Alt:* | | | |
| *Hor: Par:* | | | |
| *App: Dist:* | | | |
| *True Dist:* | | | |
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| *Diff: in 3 ho:* | | | |
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| *2:nd Arc:* | — | | |
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| *Diff: for ' "* | — | | |
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| *Time at Greenw:* h | | | |
| *Time at Ship* | | | |
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| Moons *Alt:* | | | |
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| Moons *Alt:* | | | |
| Stars *Alt:* | | | |
| *Hor: Par:* | | | |
| *App: Dist:* | | | |
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| *Time at Ship* | | | |
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| Moons *Alt:* | | | |
| Suns *Alt:* | | | |
| *Hor: Par:* | | | |
| *App: Dist:* | | | |
| *True Dist:* | | | |
| *d:o at ho:* | | | |
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| *Diff: in 3 ho:* | | | |
| *Longitude* | | | |

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| *2:nd Arc:* | — | | |
| *Total* | — | | |
| *Diff: for 1 Deg:* | — | | |
| *Diff: for ' "* | — | | |
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| *Time at Greenw:* h | | | |
| *Time at Ship* | | | |
| *Diff:* — | | | |

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| Moons *Alt:* | | | |
| Stars *Alt:* | | | |
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| *App: Dist:* | | | |
| *True Dist:* | | | |
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| Moons *Alt:* | | | |
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| *Time at Greenw:* h | | | |
| *Time at Ship* | | | |
| *Diff:* — | | | |

80 70 60 50 40 30 20 10

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George Margetts invt. et del.

45 40 90 80 70 60 50 40 30 20 10 0

30 20 10 0 10 20 30 40

Published as the Act directs Jan.y 1 1790

80 70 60 50 40 30 20 10

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts inv.t et del.

Published as the Act directs Jan.y 1.1790.

| | D | M | S |
|---|---|---|---|
| Moons app. Alt. | | | |
| Suns app Alt. | | | |
| Moons Hor: Par: | | | |
| app. Distance | | | |
| true Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

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| 1.st Arc. | — | | |
| 2.nd d.o | — | | |
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| diff for 1 Deg: | — | | |
| diff for ' " | — | | |
| Correction | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Difference — | | | |

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| Moons app. Alt. | | | |
| Stars app. Alt. | | | |
| Moons Hor: Par: | | | |
| app. Distance | | | |
| true Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

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| 2.nd Arc. | — | | |
| Total | — | | |
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| Correction | — | | |
| Time at Greenw.h | H | M | S |
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| Moons app. Alt. | | | |
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| Stars Alt. | | | |
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| Moons Alt. | | | |
| Stars Alt. | | | |
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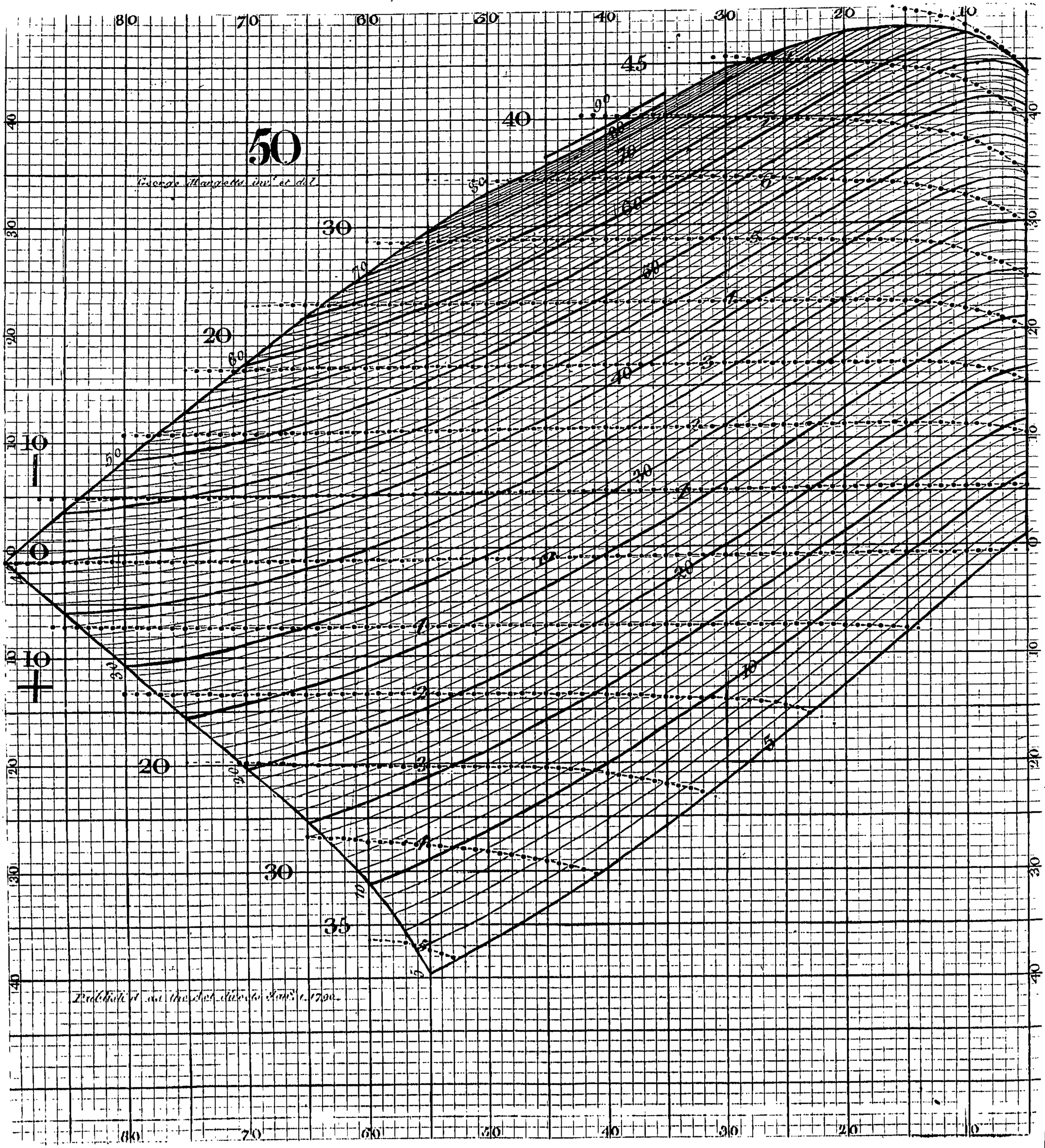
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ' " | — | | |
| Corr. | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff. — | | | |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George Margetts inv.t et del.t
Published at the Act directs Aug.st 1790.

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star, & the Apparent Altitudes of their Centers.

George Margetts inv.t & del.

Publish'd as the Act directs Jan.y 1.1790.

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons app:Alt: | | | | 1.st Arc: | — | | |
| Suns app:Alt: | | | | 2.nd Arc: | — | | |
| Moons Hor: Par: | | | | Total | — | | |
| App: Distance | | | | diff: for 1 Deg: | — | | |
| True Distance | | | | diff: for ′ ″ | — | | |
| d.o at Hours | | | | Correction | — | | |
| difference — | | | | Time at Greenw.h | H | M | S |
| d.o in 3 Hours | | | | Time at Ship | | | |
| Longitude | | | | Difference — | | | |

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| Moons Alt: | | | | 1.st Arc: | — | | |
| Stars app:Alt: | | | | 2.nd Arc: | — | | |
| Moons Hor: Par: | | | | Total | — | | |
| App: Distance | | | | diff: for 1 Deg: | — | | |
| True Distance | | | | diff: for ′ ″ | — | | |
| d.o at Hours | | | | Correction | — | | |
| difference — | | | | Time at Greenw.h | H | M | S |
| d.o in 3 Hours | | | | Time at Ship. | | | |
| Longitude | | | | Diff: — | | | |

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| Moons app:Alt: | | | | 1.st Arc: | — | | |
| Suns app:Alt: | | | | 2.nd d.o | — | | |
| Moons Hor Par: | | | | Total | — | | |
| App: Distance | | | | diff: for 1 Deg: | — | | |
| True Distance | | | | diff: for ′ ″ | — | | |
| d.o at Hours | | | | Correction | — | | |
| difference — | | | | Time at Greenw.h | H | M | S |
| d.o in 3 Hours | | | | Time at Ship | | | |
| Longitude | | | | Difference — | | | |

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| Moons Alt: | | | | 1.st Arc: | — | | |
| Stars Alt: | | | | 2.nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| d.o at ho | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | |

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| Moons Alt: | | | | 1.st Arc: | — | | |
| Suns Alt: | | | | 2.nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
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| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
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| Moons Alt: | | | | 1.st Arc: | — | | |
| Stars Alt: | | | | 2.nd Arc: | — | | |
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| Hor: Par: | | | | Total | — | | |
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| Suns Alt: | | | | 2.nd Arc: | — | | |
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| Stars Alt: | | | | 2.nd Arc: | — | | |
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| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: | | | |

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George Margetts invt. et del.

Published as the Act directs Jan.y 1.1799

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts inv.t et del.

Published as the Act directs Jun.1 1790.

| | D | M | S |
|---|---|---|---|
| Moons app:Alt: | | | |
| Suns app:Alt: | | | |
| Moons Hor:Par: | | | |
| App: Distance | | | |
| True Distance | | | |
| d.º at Hours | | | |
| difference — | | | |
| d.º in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
| diff: for 1 Deg: | — | | |
| diff: for ' " | — | | |
| Correction | — | | |
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Difference — | | | |

| | D | M | S |
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| Moons app:Alt: | | | |
| Stars app:Alt: | | | |
| Moons Hor:Par: | | | |
| App: Distance | | | |
| True Distance | | | |
| d.º at Hours | | | |
| difference — | | | |
| d.º in 3 Hours | | | |
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| | D | M | S |
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| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
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| diff: for 1 Deg: | — | | |
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| Time at Greenw.h | | | |
| Time at Ship. | | | |
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| Moons app:Alt: | | | |
| Suns app:Alt: | | | |
| Moons Hor:Par: | | | |
| App: Distance | | | |
| True Distance | | | |
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| Stars Alt: | | | |
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| App: Dist: | | | |
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| Corr: | — | | |
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Diff: | | | |

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George Margetts inv.t et del.

Published as the Act directs Jan.y 1, 1790

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts inv.t et del.

Published as the Act directs Jun.d 1790.

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons app:Alt: | | | | 1st Arc: | — | | |
| Suns app:Alt: | | | | 2nd Arc: | — | | |
| Moons Hor: Par: | | | | Total | — | | |
| App: Distance | | | | diff: for 1 Deg: | — | | |
| True Distance | | | | diff: for ′ ″ | — | | |
| dº at Hours | | | | Correction | — | | |
| difference — | | | | Time at Greenwh: | H | M | S |
| dº in 3 Hours | | | | Time at Ship | | | |
| Longitude | | | | Difference — | | | |

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| Moons Alt: | | | | 1st Arc: | — | | |
| Stars Alt: | | | | 2nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| dº at ho | | | | Corr: | — | | |
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| Moons Alt: | | | | 1st Arc: | — | | |
| Suns Alt: | | | | 2nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
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| Moons Alt: | | | | 1st Arc: | — | | |
| Stars Alt: | | | | 2nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist | | | | Diff: for ′ ″ | — | | |
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| Suns Alt: | | | | 2nd Arc: | — | | |
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| Moons app:Alt: | | | | 1st Arc: | — | | |
| Stars app:Alt: | | | | 2nd Arc: | — | | |
| Moons Hor: Par: | | | | Total | — | | |
| App: Distance | | | | diff: for 1 Deg: | — | | |
| True Distance | | | | diff: for ′ ″ | — | | |
| dº at Hours | | | | Correction | — | | |
| difference — | | | | Time at Greenwh: | H | M | S |
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| Moons Alt: | | | | 1st Arc: | — | | |
| Suns Alt: | | | | 2nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
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| Moons Alt: | | | | 1st Arc: | — | | |
| Stars Alt: | | | | 2nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
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| Diff: in 3 ho: | | | | Time at Ship | | | |
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| Moons Alt: | | | | 1st Arc: | — | | |
| Suns Alt: | | | | 2nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
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| Diff: — | | | | Time at Greenwh: | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
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| Moons Alt: | | | | 1st Arc: | — | | |
| Stars Alt: | | | | 2nd Arc: | — | | |
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| Moons Alt: | | | | 1st Arc: | — | | |
| Suns Alt: | | | | 2nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| dº at ho | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenwh: | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | |

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons app:Alt: | | | | 1st Arc: | — | | |
| Suns app:Alt: | | | | 2nd dº | — | | |
| Moons Hor: Par: | | | | Total | — | | |
| App: Distance | | | | diff: for 1 Deg: | — | | |
| True Distance | | | | diff: for ′ ″ | — | | |
| dº at Hours | | | | Correction | — | | |
| difference — | | | | Time at Greenwh: | H | M | S |
| dº in 3 Hours | | | | Time at Ship | | | |
| Longitude | | | | Difference — | | | |

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons Alt: | | | | 1st Arc: | — | | |
| Stars Alt: | | | | 2nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| dº at ho: | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenwh: | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | |

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| Moons Alt: | | | | 1st Arc: | — | | |
| Suns Alt: | | | | 2nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| dº at ho | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenwh: | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | |

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| Moons Alt: | | | | 1st Arc: | — | | |
| Stars Alt: | | | | 2nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| dº at ho | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenwh: | H | M | S |
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| Moons Alt: | | | | 1st Arc: | — | | |
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| Diff: — | | | | Time at Greenwh: | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: | | | |

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George Margetts invet delt

Published as the Act directs Jan.y 1.1790.

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS.

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts inv.t et del. — Publish'd as the Act directs Jan.y 1.1790.

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|---|---|---|---|
| Moons app. Alt. | | | |
| Suns app. Alt. | | | |
| Moons Hor: Par: | | | |
| app. Distance | | | |
| true Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

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| 1.st Arc. | − | | |
| 2.nd d.o | − | | |
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| diff for 1 Deg: | − | | |
| diff for ′ ″ | − | | |
| Correction | − | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
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| Moons app. Alt. | | | |
| Stars app. Alt. | | | |
| Moons Hor: Par: | | | |
| app. Distance | | | |
| true Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
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| Total | − | | |
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| Moons app. Alt. | | | |
| Suns app. Alt. | | | |
| Moons Hor: Par: | | | |
| app. Distance | | | |
| true Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
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| Time at Ship | | | |
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| Stars Alt. | | | |
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| Time at Ship | | | |
| Diff. — | | | |

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George Margetts inv. sch. del.

Published as the Act directs, June 1, 1790.

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts inv.t et del.

Publish.d as the Act directs Jan.y 1.1790.

| D | M | S | | D | M | S |
|---|---|---|---|---|---|---|
| Moons app.Alt: | | | 1.st Arc: | — | | |
| Suns app.Alt: | | | 2.nd Arc: | — | | |
| Moons Hor.Par: | | | Total | — | | |
| App.Distance | | | diff: for 1 Deg: | — | | |
| True Distance | | | diff: for ′ ″ | — | | |
| d.o at Hours | | | Correction | — | | |
| difference — | | | Time at Greenw.h | H | M | S |
| d.o in 3 Hours | | | Time at Ship | | | |
| Longitude | | | Difference — | | | |

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|---|---|---|---|---|---|---|
| Moons Alt: | | | 1.st Arc: | — | | |
| Stars Alt: | | | 2.nd Arc: | — | | |
| Hor: Par: | | | Total | — | | |
| App: Dist: | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | Diff: for ′ ″ | — | | |
| d.o at ho | | | Corr: | — | | |
| Diff: — | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | Time at Ship | | | |
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| Moons Alt: | | | 1.st Arc: | — | | |
| Suns Alt: | | | 2.nd Arc: | — | | |
| Hor: Par: | | | Total | — | | |
| App: Dist: | | | Diff: for 1 Deg: | — | | |
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| d.o at ho | | | Corr: | — | | |
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| Stars Alt: | | | 2.nd Arc: | — | | |
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| App: Dist: | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | Diff: for ′ ″ | — | | |
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| Stars Alt: | | | 2.nd Arc: | — | | |
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| Suns Alt: | | | 2.nd Arc: | — | | |
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| Stars Alt: | | | 2.nd Arc: | — | | |
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| Stars Alt: | | | 2.nd Arc: | — | | |
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| Moons Alt: | | | 1.st Arc: | — | | |
| Suns Alt: | | | 2.nd Arc: | — | | |
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| Moons Alt: | | | 1.st Arc: | — | | |
| Stars Alt: | | | 2.nd Arc: | — | | |
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| Moons Alt: | | | 1.st Arc: | — | | |
| Suns Alt: | | | 2.nd Arc: | — | | |
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George Margetts invt et del.t

Published as the Act directs. Jan.y 1.1700

80 70 60 50 40 30 20 10

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts inv.t et del.

Publish.d as the Act directs Jan.y 1.1790.

| | D | M | S |
|---|---|---|---|
| Moons app. Alt. | | | |
| Suns app Alt. | | | |
| Moons Hor Par: | | | |
| app. Distance | | | |
| true Distance | | | |
| D.o at Hours | | | |
| difference — | | | |
| D.o in 3 Hours | | | |
| Longitude | | | |

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| 1.st Arc. | — | | |
| 2.nd d.o | — | | |
| Total | — | | |
| diff for 1 Deg: | — | | |
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| Correction | — | | |
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| Time at Ship | | | |
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| Moons app.Alt. | | | |
| Stars app.Alt. | | | |
| Moons Hor: Par: | | | |
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| difference — | | | |
| D.o in 3 Hours | | | |
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| 1.st Arc. | — | | |
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| Moons app. Alt. | | | |
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| D.o in 3 Hours | | | |
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| 1.st Arc. | — | | |
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| Time at Greenw.h | H | M | S |
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| Moons Alt. | | | |
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| True Dist. | | | |
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| Longitude | | | |

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| 1.st Arc. | — | | |
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| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ' " | — | | |
| Corr. | — | | |
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| Time at Ship | | | |
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| Stars Alt. | | | |
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| Diff. — | | | |

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George Mangelia junr. et del.

Published as the Act directs 9th Novr. 1795.

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts inv.t et del.

Publishid as the Act directs Jan.y 1.1790.

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| Moons app:Alt: | | | |
| Suns app:Alt: | | | |
| Moons Hor: Par: | | | |
| App: Distance | | | |
| True Distance | | | |
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| difference — | | | |
| d.o in 3 Hours | | | |
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| Correction | — | | |
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| Time at Ship | | | |
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| Moons Alt: | | | |
| Stars Alt: | | | |
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| App: Dist: | | | |
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| Diff: for 1 Deg: | — | | |
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| Moons Alt: | | | |
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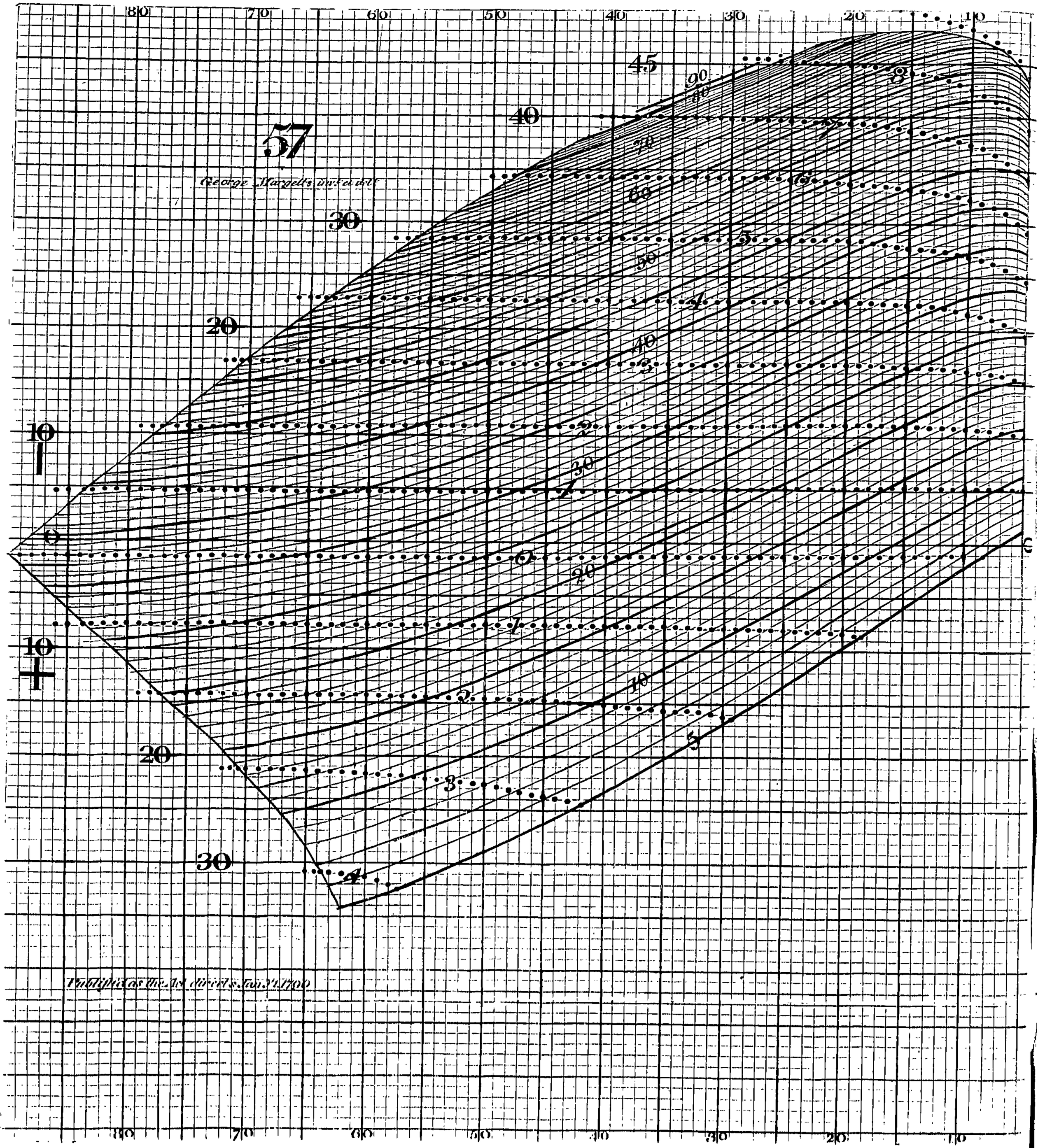
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George Margetts inv.t et delt
Published as the Act directs Jan.y 1.1790

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star, & the Apparent Altitudes of their Centers.

George Margetts inv.t et del.: Publish'd as the Act directs Jun.1.1790.

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons app:Alt: | | | | 1st Arc: | — | | |
| Suns app:Alt: | | | | 2nd Arc: | — | | |
| Moons Hor:Par: | | | | Total | — | | |
| App:Distance | | | | diff: for 1 Deg: | — | | |
| True Distance | | | | diff: for ′ ″ | — | | |
| dº at Hours | | | | Correction | — | | |
| difference — | | | | Time at Greenwh: | H | M | S |
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| Stars app:Alt: | | | | 2nd Arc: | — | | |
| Moons Hor:Par: | | | | Total | — | | |
| App:Distance | | | | diff: for 1 Deg: | — | | |
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| Suns app:Alt: | | | | 2nd dº | — | | |
| Moons Hor:Par: | | | | Total | — | | |
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| Hor: Par: | | | | Total | — | | |
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| Stars Alt: | | | | 2nd Arc: | — | | |
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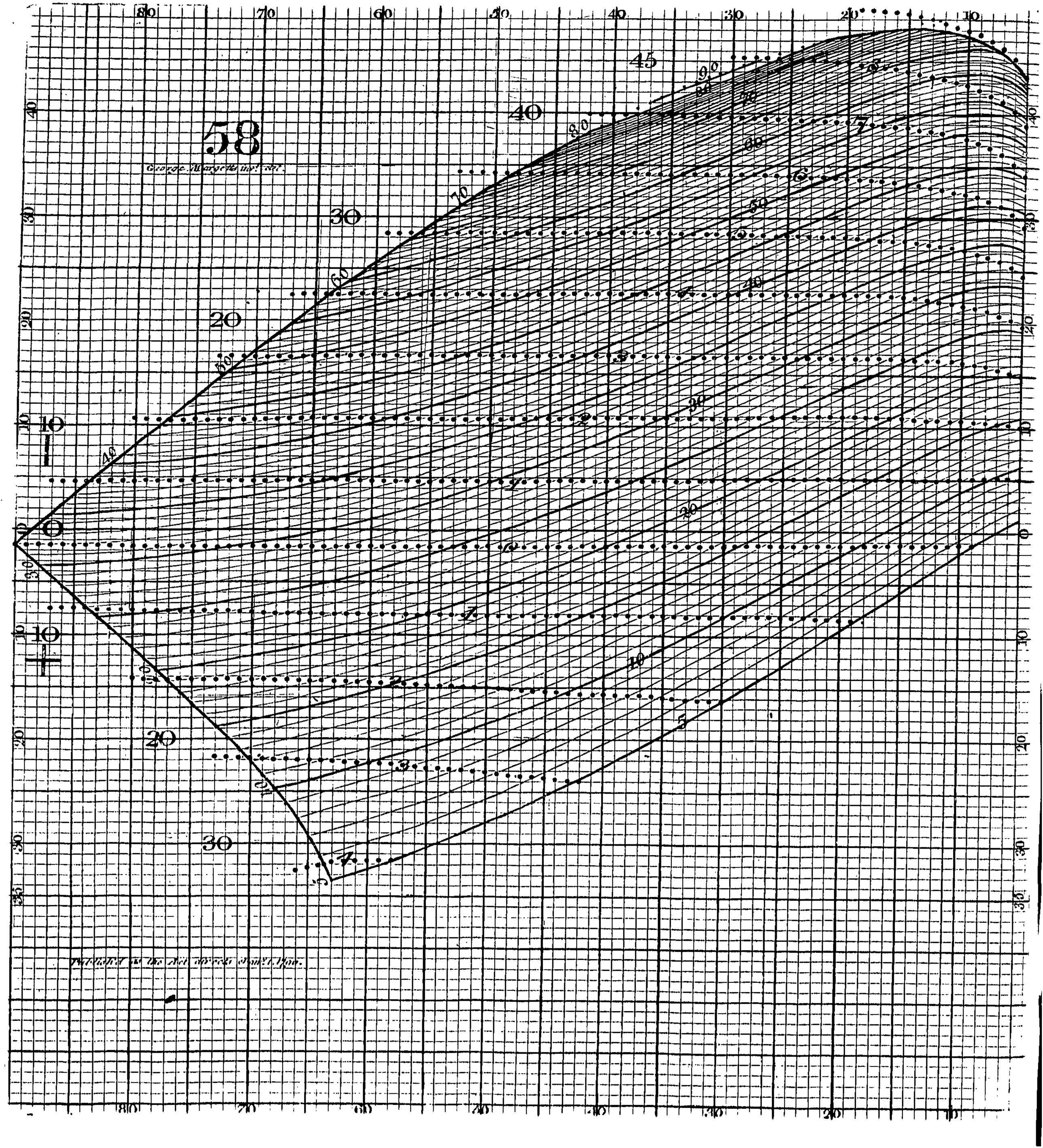
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George Margetts inv.t del.
Published as the Act directs 1st May 1794.

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George Margetts inv.t et del.

Publishid as the Act directs Jan.y 1.1790.

| | D | M | S |
|---|---|---|---|
| Moons app.Alt: | | | |
| Suns app.Alt: | | | |
| Moons Hor.Par: | | | |
| App.Distance | | | |
| True Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
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| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
| diff: for 1 Deg: | — | | |
| diff: for ' " | — | | |
| Correction | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Difference — | | | |

| | D | M | S |
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| Moons app.Alt: | | | |
| Stars app.Alt: | | | |
| Moons Hor.Par: | | | |
| App.Distance | | | |
| True Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
| diff: for 1 Deg: | — | | |
| diff: for ' " | — | | |
| Correction | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship. | | | |
| Diff: — | | | |

| | D | M | S |
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| Moons app.Alt: | | | |
| Suns app.Alt: | | | |
| Moons Hor.Par: | | | |
| App.Distance | | | |
| True Distance | | | |
| d.o at Hours. | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

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|---|---|---|---|
| 1.st Arc: | — | | |
| 2.nd d.o | — | | |
| Total. | — | | |
| diff: for 1 Deg: | — | | |
| diff: for ' " | — | | |
| Correction | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Difference — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt: | | | |
| Stars Alt: | | | |
| Hor: Par: | | | |
| App: Dist: | | | |
| True Dist: | | | |
| d.o at ho: | | | |
| Diff: — | | | |
| Diff: in 3 ho: | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
| Diff: for 1 Deg: | — | | |
| Diff: for ' " | — | | |
| Corr: | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff: — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt: | | | |
| Suns Alt: | | | |
| Hor: Par: | | | |
| App: Dist: | | | |
| True Dist: | | | |
| d.o at ho: | | | |
| Diff: — | | | |
| Diff: in 3 ho: | | | |
| Longitude | | | |

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| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
| Diff: for 1 Deg: | — | | |
| Diff: for ' " | — | | |
| Corr: | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff: — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt: | | | |
| Stars Alt: | | | |
| Hor: Par: | | | |
| App: Dist: | | | |
| True Dist: | | | |
| d.o at ho: | | | |
| Diff: — | | | |
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| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
| Diff: for 1 Deg: | — | | |
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| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
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| Moons Alt: | | | |
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| Diff: in 3 ho: | | | |
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| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
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| Time at Greenw.h | H | M | S |
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| | D | M | S |
|---|---|---|---|
| Moons Alt: | | | |
| Stars Alt: | | | |
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| Time at Greenw.h | H | M | S |
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| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
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| Moons Alt: | | | |
| Stars Alt: | | | |
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| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
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| Moons Alt: | | | |
| Suns Alt: | | | |
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| Time at Greenw.h | H | M | S |
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| Moons Alt: | | | |
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| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
| Diff: for 1 Deg: | — | | |
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| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
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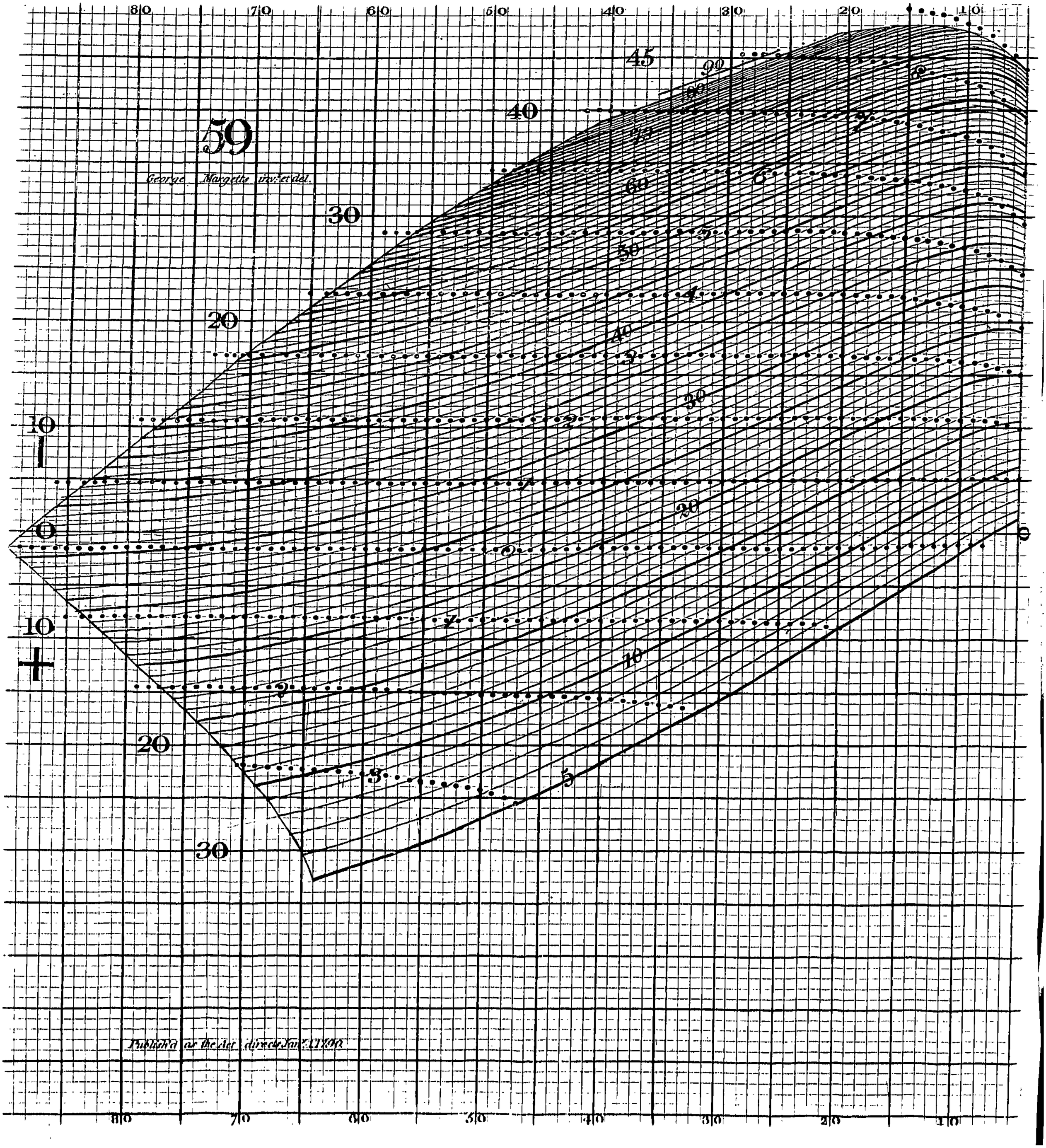
59
George Margetts inv.t et del.
Publish'd as the Act directs Jan.y 1.1800

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margette inv.t et del. — Published as the Act directs Jan.y 1.1790.

| | D | M | S |
|---|---|---|---|
| Moons app:Alt: | | | |
| Suns app:Alt: | | | |
| Moons Hor: Par: | | | |
| App: Distance | | | |
| True Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
| diff: for 1 Deg: | — | | |
| diff: for ' " | — | | |
| Correction | — | | |
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Difference — | | | |

| | D | M | S |
|---|---|---|---|
| Moons app:Alt: | | | |
| Stars app:Alt: | | | |
| Moons Hor: Par: | | | |
| App: Distance | | | |
| True Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
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| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
| diff: for 1 Deg: | — | | |
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| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship. | | | |
| Diff: — | | | |

| | D | M | S |
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| Moons app:Alt: | | | |
| Suns app:Alt: | | | |
| Moons Hor: Par: | | | |
| App: Distance | | | |
| True Distance | | | |
| d.o at Hours: | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

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| Time at Greenw.h | | | |
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| Moons Alt: | | | |
| Stars Alt: | | | |
| Hor: Par: | | | |
| App: Dist: | | | |
| True Dist: | | | |
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| Diff: — | | | |
| Diff: in 3 ho: | | | |
| Longitude | | | |

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| 2.nd Arc: | — | | |
| Total | — | | |
| Diff: for 1 Deg: | — | | |
| Diff: for ' " | — | | |
| Corr: | — | | |
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Diff: — | | | |

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| Moons Alt: | | | |
| Suns Alt: | | | |
| Hor: Par: | | | |
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| Time at Greenw.h | | | |
| Time at Ship | | | |
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| Moons Alt: | | | |
| Stars Alt: | | | |
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| Time at Greenw.h | | | |
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| Moons Alt: | | | |
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| Time at Greenw.h | | | |
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| Stars Alt: | | | |
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| 2.nd Arc: | — | | |
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| Diff: for 1 Deg: | — | | |
| Diff: for ' " | — | | |
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| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Diff: — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt: | | | |
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| App: Dist: | | | |
| True Dist: | | | |
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| Longitude | | | |

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| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
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| Time at Greenw.h | | | |
| Time at Ship | | | |
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|---|---|---|---|
| Moons Alt: | | | |
| Stars Alt: | | | |
| Hor: Par: | | | |
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| True Dist: | | | |
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| Diff: for 1 Deg: | — | | |
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| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
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| | D | M | S |
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| Moons Alt: | | | |
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| Hor: Par: | | | |
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| | D | M | S |
|---|---|---|---|
| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
| Diff: for 1 Deg: | — | | |
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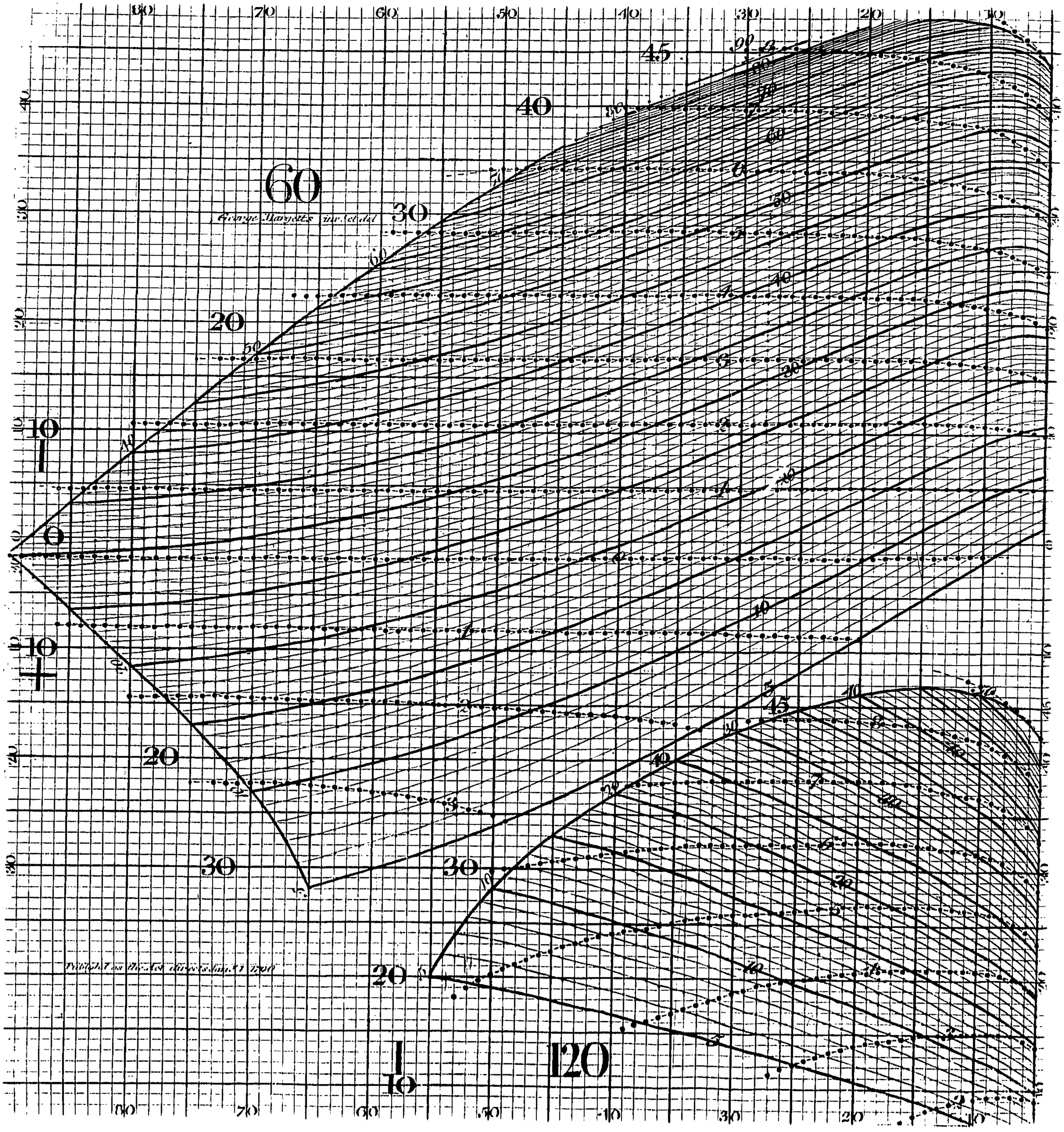
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Diff: — | | | |


60
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10
Georges Hayets inv. et del

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

*Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star, & the Apparent Altitudes of their Centers.*

*George Margette inv.t et del.* — *Published as the Act directs Jan.y 1.1790.*

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons *app:Alt:* | | | | 1.st *Arc:* | — | | |
| Suns *app:Alt:* | | | | 2.nd *Arc:* | — | | |
| *Moons Hor:Par:* | | | | *Total* | — | | |
| *App: Distance* | | | | *diff: for 1 Deg:* | — | | |
| *True Distance* | | | | *diff: for ′ ″* | — | | |
| d.o *at Hours* | | | | *Correction* | — | | |
| *difference* — | | | | *Time at Green.h* | H | M | S |
| d.o *in 3 Hours* | | | | *Time at Ship* | | | |
| *Longitude* | | | | *Difference* — | | | |

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons *Alt:* | | | | 1.st *Arc:* | — | | |
| Stars *Alt:* | | | | 2.nd *Arc:* | — | | |
| *Hor: Par:* | | | | *Total* | — | | |
| *App: Dist:* | | | | *Diff: for 1 Deg:* | — | | |
| *True Dist:* | | | | *Diff: for ′ ″* | — | | |
| d.o *at ho* | | | | *Corr:* | — | | |
| *Diff:* — | | | | *Time at Green.h* | H | M | S |
| *Diff: in 3 ho:* | | | | *Time at Ship* | | | |
| *Longitude* | | | | *Diff:* — | | | |

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons *Alt:* | | | | 1.st *Arc:* | — | | |
| Suns *Alt:* | | | | 2.nd *Arc:* | — | | |
| *Hor: Par:* | | | | *Total* | — | | |
| *App: Dist:* | | | | *Diff: for 1 Deg:* | — | | |
| *True Dist:* | | | | *Diff: for ′ ″* | — | | |
| d.o *at ho:* | | | | *Corr:* | — | | |
| *Diff:* — | | | | *Time at Green.h* | H | M | S |
| *Diff: in 3 ho:* | | | | *Time at Ship* | | | |
| *Longitude* | | | | *Diff:* — | | | |

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons *Alt:* | | | | 1.st *Arc:* | — | | |
| Stars *Alt:* | | | | 2.nd *Arc:* | — | | |
| *Hor: Par:* | | | | *Total* | — | | |
| *App: Dist:* | | | | *Diff: for 1 Deg:* | — | | |
| *True Dist:* | | | | *Diff: for ′ ″* | — | | |
| d.o *at ho:* | | | | *Corr:* | — | | |
| *Diff:* — | | | | *Time at Green.h* | H | M | S |
| *Diff: in 3 ho:* | | | | *Time at Ship* | | | |
| *Longitude* | | | | *Diff:* — | | | |

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons *Alt:* | | | | 1.st *Arc:* | — | | |
| Suns *Alt:* | | | | 2.nd *Arc:* | — | | |
| *Hor Par:* | | | | *Total* | — | | |
| *App Dist:* | | | | *Diff: for 1 Deg:* | — | | |
| *True Dist:* | | | | *Diff: for ′ ″* | — | | |
| d.o *at ho:* | | | | *Corr:* | — | | |
| *Diff:* — | | | | *Time at Green.h* | H | M | S |
| *Diff: in 3 ho:* | | | | *Time at Ship* | | | |
| *Longitude* | | | | *Diff:* — | | | |

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons *Alt:* | | | | 1.st *Arc:* | — | | |
| Stars *Alt:* | | | | 2.nd *Arc:* | — | | |
| *Hor: Par:* | | | | *Total* | — | | |
| *App: Dist:* | | | | *Diff: for 1 Deg:* | — | | |
| *True Dist:* | | | | *Diff: for ′ ″* | — | | |
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| *Diff:* — | | | | *Time at Green.h* | H | M | S |
| *Diff: in 3 ho:* | | | | *Time at Ship* | | | |
| *Longitude* | | | | *Diff:* — | | | |

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons *Alt:* | | | | 1.st *Arc:* | — | | |
| Suns *Alt:* | | | | 2.nd *Arc:* | — | | |
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| *App: Dist:* | | | | *Diff: for 1 Deg:* | — | | |
| *True Dist:* | | | | *Diff: for ′ ″* | — | | |
| d.o *at ho* | | | | *Corr:* | — | | |
| *Diff:* — | | | | *Time at Green.h* | H | M | S |
| *Diff: in 3 ho:* | | | | *Time at Ship* | | | |
| *Longitude* | | | | *Diff:* — | | | |

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons *Alt:* | | | | 1.st *Arc:* | — | | |
| Stars *Alt:* | | | | 2.nd *Arc:* | — | | |
| *Hor: Par:* | | | | *Total* | — | | |
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| d.o *at ho* | | | | *Corr:* | — | | |
| *Diff:* — | | | | *Time at Green.h* | H | M | S |
| *Diff: in 3 ho:* | | | | *Time at Ship* | | | |
| *Longitude* | | | | *Diff:* — | | | |

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons *Alt:* | | | | 1.st *Arc:* | — | | |
| Suns *Alt:* | | | | 2.nd *Arc:* | — | | |
| *Hor: Par:* | | | | *Total* | — | | |
| *App: Dist:* | | | | *Diff: for 1 Deg:* | — | | |
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| *Diff:* — | | | | *Time at Green.h* | H | M | S |
| *Diff: in 3 ho:* | | | | *Time at Ship* | | | |
| *Longitude* | | | | *Diff:* — | | | |

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons *Alt:* | | | | 1.st *Arc:* | — | | |
| Stars *Alt:* | | | | 2.nd *Arc:* | — | | |
| *Hor: Par:* | | | | *Total* | — | | |
| *App: Dist:* | | | | *Diff: for 1 Deg:* | — | | |
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| d.o *at ho* | | | | *Corr:* | — | | |
| *Diff:* — | | | | *Time at Green.h* | H | M | S |
| *Diff: in 3 ho:* | | | | *Time at Ship* | | | |
| *Longitude* | | | | *Diff:* — | | | |

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons *Alt:* | | | | 1.st *Arc:* | — | | |
| Suns *Alt:* | | | | 2.nd *Arc:* | — | | |
| *Hor: Par:* | | | | *Total* | — | | |
| *App: Dist:* | | | | *Diff: for 1 Deg:* | — | | |
| *True Dist:* | | | | *Diff: for ′ ″* | — | | |
| d.o *at ho* | | | | *Corr:* | — | | |
| *Diff:* — | | | | *Time at Green.h* | H | M | S |
| *Diff: in 3 ho:* | | | | *Time at Ship* | | | |
| *Longitude* | | | | *Diff:* — | | | |

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George Margetts inv.et del.

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Published as the Act directs Jan.y 1.1790

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

*Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star, & the Apparent Altitudes of their Centers.*

George Margetts inv.t et del.

Publish'd as the Act directs Jun.1.1790.

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons app:Alt: | | | | 1.st Arc: | — | | |
| Suns app:Alt: | | | | 2.nd Arc: | — | | |
| Moons Hor: Par: | | | | Total | — | | |
| App: Distance | | | | diff: for 1 Deg: | — | | |
| True Distance | | | | diff: for ′ ″ | — | | |
| d.o at Hours | | | | Correction | — | | |
| difference — | | | | Time at Greenw.h | H | M | S |
| d.o in 3 Hours | | | | Time at Ship | | | |
| Longitude | | | | Difference — | | | |

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons app:Alt: | | | | 1.st Arc: | — | | |
| Stars app:Alt: | | | | 2.nd Arc: | — | | |
| Moons Hor:Par: | | | | Total | — | | |
| App: Distance | | | | diff: for 1 Deg: | — | | |
| True Distance | | | | diff: for ′ ″ | — | | |
| d.o at Hours | | | | Correction | — | | |
| difference — | | | | Time at Greenw.h | H | M | S |
| d.o in 3 Hours | | | | Time at Ship. | | | |
| Longitude | | | | Diff: — | | | |

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| Moons app:Alt: | | | | 1.st Arc: | — | | |
| Suns app:Alt: | | | | 2.nd d.o | — | | |
| Moons Hor:Par: | | | | Total | — | | |
| App: Distance | | | | diff: for 1 Deg: | — | | |
| True Distance | | | | diff: for ′ ″ | — | | |
| d.o at Hours | | | | Correction | — | | |
| difference — | | | | Time at Greenw.h | H | M | S |
| d.o in 3 Hours | | | | Time at Ship | | | |
| Longitude | | | | Difference — | | | |

| | D | M | S | | D | M | S |
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| Moons Alt: | | | | 1.st Arc: | — | | |
| Stars Alt: | | | | 2.nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| d.o at ho | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | |

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| Moons Alt: | | | | 1.st Arc: | — | | |
| Suns Alt: | | | | 2.nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| d.o at ho | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | |

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| Moons Alt: | | | | 1.st Arc: | — | | |
| Stars Alt: | | | | 2.nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| d.o at ho | | | | Corr: | — | | |
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| Moons Alt: | | | | 1.st Arc: | — | | |
| Suns Alt: | | | | 2.nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| d.o at ho | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | |

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| Moons Alt: | | | | 1.st Arc: | — | | |
| Stars Alt: | | | | 2.nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| d.o at ho | | | | Corr: | — | | |
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| Moons Alt: | | | | 1.st Arc: | — | | |
| Suns Alt: | | | | 2.nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| d.o at ho | | | | Corr: | — | | |
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| Moons Alt: | | | | 1.st Arc: | — | | |
| Stars Alt: | | | | 2.nd Arc: | — | | |
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| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | |

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| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
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| Stars Alt: | | | | 2.nd Arc: | — | | |
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| Longitude | | | | Diff: — | | | |

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| Suns Alt: | | | | 2.nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
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| Moons Alt: | | | | 1.st Arc: | — | | |
| Stars Alt: | | | | 2.nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
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| Longitude | | | | Diff: — | | | |

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| Moons Alt: | | | | 1.st Arc: | — | | |
| Suns Alt: | | | | 2.nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
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| Moons Alt: | | | | 1.st Arc: | — | | |
| Stars Alt: | | | | 2.nd Arc: | — | | |
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| True Dist: | | | | Diff: for ′ ″ | — | | |
| d.o at ho | | | | Corr: | — | | |
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| Longitude | | | | Diff: — | | | |

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| Moons Alt: | | | | 1.st Arc: | — | | |
| Suns Alt: | | | | 2.nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| d.o at ho | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | |

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George Mangelbs Fec.t et del.

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# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts inv.t et del.

Publish'd as the Act directs Jan.y 1.1790.

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons app.Alt: | | | | 1.st Arc: | — | | |
| Suns app:Alt: | | | | 2.nd Arc: | — | | |
| Moons Hor.Par: | | | | Total | — | | |
| App: Distance | | | | diff: for 1 Deg: | — | | |
| True Distance | | | | diff: for ′ ″ | — | | |
| d.o at Hours | | | | Correction | — | | |
| difference — | | | | Time at Greenw.h | H | M | S |
| d.o in 3 Hours | | | | Time at Ship | | | |
| Longitude | | | | Difference — | | | |

| | D | M | S | | D | M | S |
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| Moons app.Alt: | | | | 1.st Arc: | — | | |
| Stars app:Alt: | | | | 2.nd Arc: | — | | |
| Moons Hor.Par: | | | | Total | — | | |
| App: Distance | | | | diff: for 1 Deg: | — | | |
| True Distance | | | | diff: for ′ ″ | — | | |
| d.o at Hours | | | | Correction | — | | |
| difference — | | | | Time at Greenw.h | H | M | S |
| d.o in 3 Hours | | | | Time at Ship. | | | |
| Longitude | | | | Diff: — | | | |

| | D | M | S | | D | M | S |
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| Moons app.Alt: | | | | 1.st Arc: | — | | |
| Suns app:Alt: | | | | 2.nd d.o | — | | |
| Moons Hor.Par: | | | | Total | — | | |
| App: Distance | | | | diff: for 1 Deg: | — | | |
| True Distance | | | | diff: for ′ ″ | — | | |
| d.o at Hours. | | | | Correction | — | | |
| difference — | | | | Time at Greenw.h | H | M | S |
| d.o in 3 Hours | | | | Time at Ship | | | |
| Longitude | | | | Difference — | | | |

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| Moons Alt: | | | | 1.st Arc: | — | | |
| Stars Alt: | | | | 2.nd Arc: | — | | |
| Hor. Par: | | | | Total | — | | |
| App. Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| d.o at ho | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | |

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons Alt: | | | | 1.st Arc: | — | | |
| Suns Alt: | | | | 2.nd Arc: | — | | |
| Hor. Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| d.o at ho: | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | |

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| Moons Alt: | | | | 1.st Arc: | — | | |
| Stars Alt: | | | | 2.nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| d.o at ho: | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | |

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons Alt: | | | | 1.st Arc: | — | | |
| Suns Alt: | | | | 2.nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| d.o at ho: | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | |

| | D | M | S | | D | M | S |
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| Moons Alt: | | | | 1.st Arc: | — | | |
| Stars Alt: | | | | 2.nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| d.o at ho: | | | | Corr: | — | | |
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| | D | M | S | | D | M | S |
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| Moons Alt: | | | | 1.st Arc: | — | | |
| Suns Alt: | | | | 2.nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| d.o at ho: | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
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| Moons Alt: | | | | 1.st Arc: | — | | |
| Stars Alt: | | | | 2.nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
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| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
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| Moons Alt: | | | | 1.st Arc: | — | | |
| Stars Alt: | | | | 2.nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
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| Diff — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
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| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons Alt: | | | | 1.st Arc: | — | | |
| Suns Alt: | | | | 2.nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
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| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons Alt: | | | | 1.st Arc: | — | | |
| Stars Alt: | | | | 2.nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| d.o at ho | | | | Corr: | — | | |
| Diff — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: | | | |

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George Margetts inv.et del.

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Published as the Act directs 1st Jan.y 1794.

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts inv.t et del.

Published as the Act directs Jun.1.1790.

| | D | M | S |
|---|---|---|---|
| Moons app:Alt: | | | |
| Suns app:Alt: | | | |
| Moons Hor:Par: | | | |
| App:Distance | | | |
| True Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
| diff: for 1 Deg: | — | | |
| diff: for ' " | — | | |
| Correction | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Difference — | | | |

| | D | M | S |
|---|---|---|---|
| Moons app:Alt: | | | |
| Stars app:Alt: | | | |
| Moons Hor:Par: | | | |
| App:Distance | | | |
| True Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
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| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
| diff: for 1 Deg: | — | | |
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| Correction | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship. | | | |
| Diff: — | | | |

| | D | M | S |
|---|---|---|---|
| Moons app:Alt: | | | |
| Suns app:Alt: | | | |
| Moons Hor:Par: | | | |
| App:Distance | | | |
| True Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

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| 1.st Arc: | — | | |
| 2.nd d.o | — | | |
| Total | — | | |
| diff: for 1 Deg: | — | | |
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| Correction | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Difference — | | | |

| | D | M | S |
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| Moons Alt: | | | |
| Stars Alt: | | | |
| Hor: Par: | | | |
| App: Dist: | | | |
| True Dist: | | | |
| d.o at ho: | | | |
| Diff: — | | | |
| Diff: in 3 ho: | | | |
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| 1.st Arc: | — | | |
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| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff: — | | | |

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| Moons Alt: | | | |
| Suns Alt: | | | |
| Hor: Par: | | | |
| App: Dist: | | | |
| True Dist: | | | |
| d.o at ho: | | | |
| Diff: — | | | |
| Diff: in 3 ho: | | | |
| Longitude | | | |

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| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
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| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
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| Moons Alt: | | | |
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| App: Dist: | | | |
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| Time at Ship | | | |
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| Time at Ship | | | |
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| Time at Ship | | | |
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| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff: — | | | |

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*George Margetts inv.t et del.*

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*Published as the Act directs 1st Nov.r 1790.*

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star, & the Apparent Altitudes of their Centers.

George Margetts inv.t et del.

Publish'd as the Act directs Jan.y 1.1790.

| | D | M | S |
|---|---|---|---|
| Moons app.Alt: | | | |
| Suns app.Alt: | | | |
| Moons Hor.Par: | | | |
| App.Distance | | | |
| True Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

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| 1.st Arc: | — | | |
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| Total | — | | |
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| Time at Greenw.h | | | |
| Time at Ship | | | |
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| Moons app.Alt: | | | |
| Stars app.Alt: | | | |
| Moons Hor.Par: | | | |
| App.Distance | | | |
| True Distance | | | |
| d.o at Hours | | | |
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| d.o in 3 Hours | | | |
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| Time at Greenw.h | | | |
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| Moons app.Alt: | | | |
| Suns app.Alt: | | | |
| Moons Hor.Par: | | | |
| App.Distance | | | |
| True Distance | | | |
| d.o at Hours | | | |
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| Time at Ship | | | |
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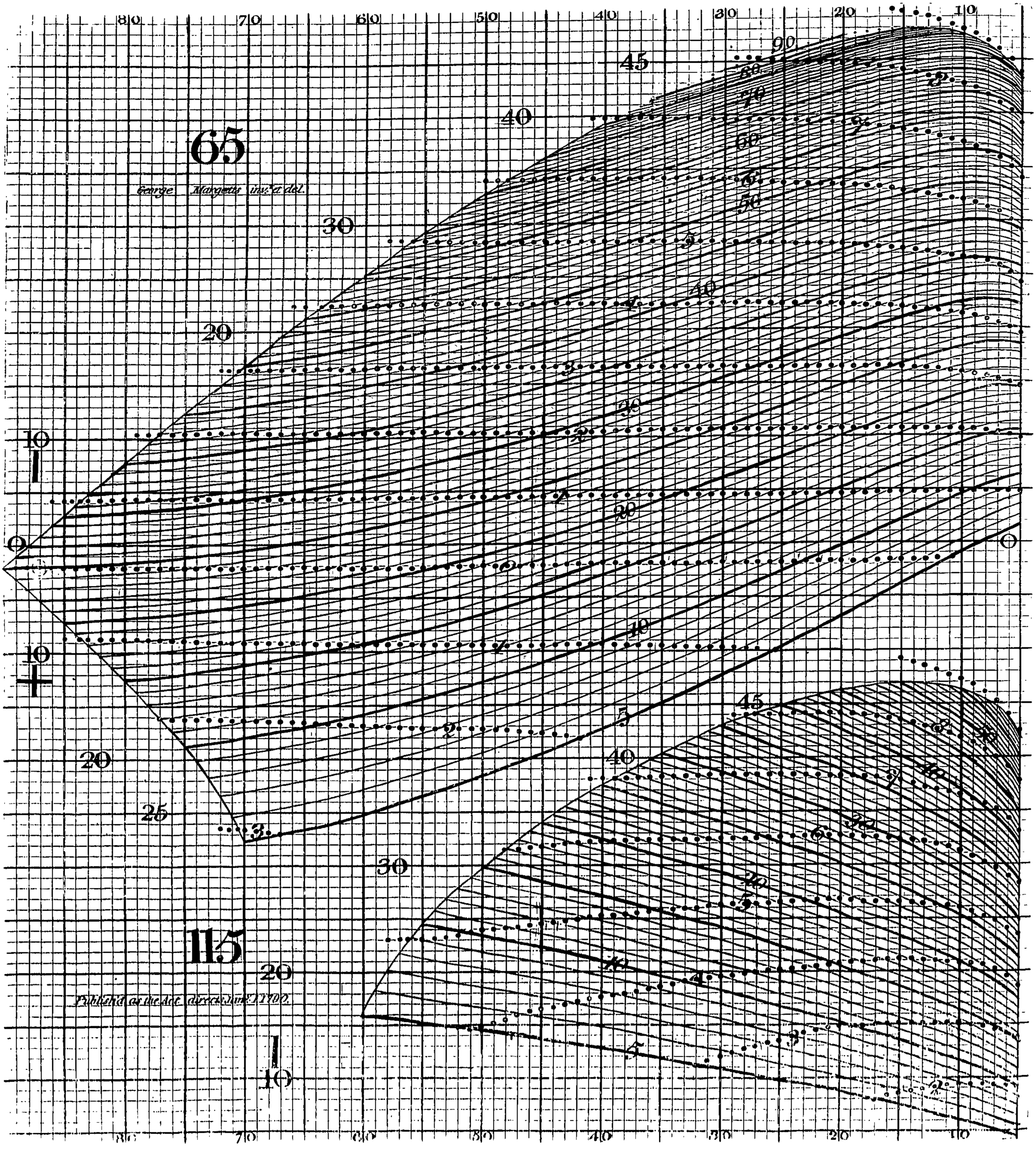
65
George Margetts inv.t et del.
115
Published as the Act directs June 1.1700.

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts invt: et del. — Published as the Act directs Jan: 1.1790.

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons app: Alt: | | | | 1st Arc: | — | | |
| Suns app: Alt: | | | | 2nd Arc: | — | | |
| Moons Hor: Par: | | | | Total | — | | |
| App: Distance | | | | diff: for 1 Deg: | — | | |
| True Distance | | | | diff: for ′ ″ | — | | |
| dº at Hours | | | | Correction | — | | |
| difference — | | | | Time at Greenwh: | H | M | S |
| dº in 3 Hours | | | | Time at Ship | | | |
| Longitude | | | | Difference — | | | |

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| Moons Alt: | | | | 1st Arc: | — | | |
| Stars Alt: | | | | 2nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
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| dº at ho | | | | Corr: | — | | |
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| Suns Alt: | | | | 2nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
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| Stars Alt: | | | | 2nd Arc: | — | | |
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| Stars Alt: | | | | 2nd Arc: | — | | |
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| Stars Alt: | | | | 2nd Arc: | — | | |
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| Moons Alt: | | | | 1st Arc: | — | | |
| Suns Alt: | | | | 2nd Arc: | — | | |
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| Moons Alt: | | | | 1st Arc: | — | | |
| Stars Alt: | | | | 2nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
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| Diff: — | | | | Time at Greenwh: | H | M | S |
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| Moons Alt: | | | | 1st Arc: | — | | |
| Suns Alt: | | | | 2nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
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| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: | | | |

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George Margetts inv. et del.

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Published as the Act directs Jan.1.1800.

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

*Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.*

George Margetts inv.t et del.

Published as the Act directs Jan.y 1.1790.

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons app.Alt: | | | | 1st Arc: | — | | |
| Suns app.Alt: | | | | 2nd Arc: | — | | |
| Moons Hor.Par: | | | | Total | — | | |
| App: Distance | | | | diff: for 1 Deg: | — | | |
| True Distance | | | | diff: for ′ ″ | — | | |
| d.o at Hours | | | | Correction | — | | |
| difference — | | | | Time at Greenw.h | H | M | S |
| d.o in 3 Hours | | | | Time at Ship | | | |
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| Moons app.Alt | | | | 1st Arc: | — | | |
| Stars app.Alt. | | | | 2nd Arc: | — | | |
| Moons Hor.Par: | | | | Total | — | | |
| App: Distance | | | | diff: for 1 Deg: | — | | |
| True Distance | | | | diff: for ′ ″ | — | | |
| d.o at Hours | | | | Correction | — | | |
| difference — | | | | Time at Greenw.h | H | M | S |
| d.o in 3 Hours | | | | Time at Ship. | | | |
| Longitude | | | | Diff: — | | | |

| | D | M | S | | D | M | S |
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| Moons app.Alt. | | | | 1st Arc. | — | | |
| Suns app.Alt. | | | | 2nd d.o | — | | |
| Moons Hor.Par: | | | | Total | — | | |
| App.Distance | | | | diff: for 1 Deg. | — | | |
| True Distance | | | | diff: for ′ ″ | — | | |
| d.o at Hours | | | | Correction | — | | |
| difference — | | | | Time at Greenw.h | H | M | S |
| d.o in 3 Hours | | | | Time at Ship | | | |
| Longitude | | | | Difference — | | | |

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| Stars Alt: | | | | 2nd Arc: | — | | |
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| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| d.o at ho | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | |

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons Alt. | | | | 1st Arc. | — | | |
| Suns Alt. | | | | 2nd Arc. | — | | |
| Hor: Par. | | | | Total | — | | |
| App: Dist. | | | | Diff: for 1 Deg: | — | | |
| True Dist. | | | | Diff: for ′ ″ | — | | |
| d.o at ho | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | |

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons Alt. | | | | 1st Arc. | — | | |
| Stars Alt. | | | | 2nd Arc. | — | | |
| Hor: Par. | | | | Total | — | | |
| App: Dist. | | | | Diff: for 1 Deg. | — | | |
| True Dist. | | | | Diff: for ′ ″ | — | | |
| d.o at ho | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | |

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons Alt. | | | | 1st Arc. | — | | |
| Suns Alt. | | | | 2nd Arc. | — | | |
| Hor: Par. | | | | Total | — | | |
| App: Dist. | | | | Diff: for 1 Deg. | — | | |
| True Dist. | | | | Diff: for ′ ″ | — | | |
| d.o at ho | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | |

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons Alt. | | | | 1st Arc. | — | | |
| Stars Alt. | | | | 2nd Arc. | — | | |
| Hor: Par. | | | | Total | — | | |
| App: Dist. | | | | Diff: for 1 Deg. | — | | |
| True Dist. | | | | Diff: for ′ ″ | — | | |
| d.o at ho | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | |

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons Alt. | | | | 1st Arc. | — | | |
| Suns Alt. | | | | 2nd Arc. | — | | |
| Hor: Par. | | | | Total | — | | |
| App: Dist. | | | | Diff: for 1 Deg. | — | | |
| True Dist. | | | | Diff: for ′ ″ | — | | |
| d.o at ho | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | |

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons Alt. | | | | 1st Arc. | — | | |
| Stars Alt. | | | | 2nd Arc. | — | | |
| Hor: Par. | | | | Total | — | | |
| App: Dist. | | | | Diff: for 1 Deg. | — | | |
| True Dist. | | | | Diff: for ′ ″ | — | | |
| d.o at ho | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | |

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons Alt. | | | | 1st Arc. | — | | |
| Suns Alt. | | | | 2nd Arc. | — | | |
| Hor: Par. | | | | Total | — | | |
| App: Dist. | | | | Diff: for 1 Deg. | — | | |
| True Dist. | | | | Diff: for ′ ″ | — | | |
| d.o at ho | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: | | | |

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons Alt. | | | | 1st Arc. | — | | |
| Stars Alt. | | | | 2nd Arc. | — | | |
| Hor: Par. | | | | Total | — | | |
| App: Dist. | | | | Diff: for 1 Deg. | — | | |
| True Dist. | | | | Diff: for ′ ″ | — | | |
| d.o at ho | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | |

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons Alt. | | | | 1st Arc. | — | | |
| Suns Alt. | | | | 2nd Arc. | — | | |
| Hor: Par. | | | | Total | — | | |
| App: Dist. | | | | Diff: for 1 Deg. | — | | |
| True Dist. | | | | Diff: for ′ ″ | — | | |
| d.o at ho | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: | | | |

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George Mayhew invt. et delt.

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# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts invt et del.

Published as the Act directs Jan.y 1.1790.

| | D | M | S |
|---|---|---|---|
| Moons app:Alt: | | | |
| Suns app:Alt: | | | |
| Moons Hor:Par: | | | |
| App: Distance | | | |
| True Distance | | | |
| d.º at Hours | | | |
| difference — | | | |
| d.º in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
| diff: for 1 Deg: | — | | |
| diff: for ' " | — | | |
| Correction | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Difference — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt: | | | |
| Stars Alt: | | | |
| Hor: Par: | | | |
| App: Dist: | | | |
| True Dist: | | | |
| d.º at ho | | | |
| Diff: — | | | |
| Diff: in 3 ho: | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
| Diff: for 1 Deg: | — | | |
| Diff: for ' " | — | | |
| Corr: | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff: — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt: | | | |
| Suns Alt: | | | |
| Hor: Par: | | | |
| App: Dist: | | | |
| True Dist: | | | |
| d.º at ho: | | | |
| Diff: — | | | |
| Diff: in 3 ho: | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
| Diff: for 1 Deg: | — | | |
| Diff: for ' " | — | | |
| Corr: | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff: — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt: | | | |
| Stars Alt: | | | |
| Hor: Par: | | | |
| App: Dist: | | | |
| True Dist: | | | |
| d.º at ho: | | | |
| Diff: — | | | |
| Diff: in 3 ho: | | | |
| Longitude | | | |

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| 2.nd Arc: | — | | |
| Total | — | | |
| Diff: for 1 Deg: | — | | |
| Diff: for ' " | — | | |
| Corr: | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff: — | | | |

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|---|---|---|---|
| Moons Alt: | | | |
| Suns Alt: | | | |
| Hor: Par: | | | |
| App: Dist: | | | |
| True Dist: | | | |
| d.º at ho: | | | |
| Diff: — | | | |
| Diff: in 3 ho: | | | |
| Longitude | | | |

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| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
| Diff: for 1 Deg: | — | | |
| Diff: for ' " | — | | |
| Corr: | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff: — | | | |

| | D | M | S |
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| Moons Alt: | | | |
| Stars Alt: | | | |
| Hor: Par: | | | |
| App: Dist: | | | |
| True Dist: | | | |
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| Diff: — | | | |
| Diff: in 3 ho: | | | |
| Longitude | | | |

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| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
| Diff: for 1 Deg: | — | | |
| Diff: for ' " | — | | |
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| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff: — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt: | | | |
| Suns Alt: | | | |
| Hor: Par: | | | |
| App: Dist: | | | |
| True Dist: | | | |
| d.º at ho: | | | |
| Diff: — | | | |
| Diff: in 3 ho: | | | |
| Longitude | | | |

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| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
| Diff: for 1 Deg: | — | | |
| Diff: for ' " | — | | |
| Corr: | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
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| | D | M | S |
|---|---|---|---|
| Moons Alt: | | | |
| Stars Alt: | | | |
| Hor: Par: | | | |
| App: Dist: | | | |
| True Dist: | | | |
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| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
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| | D | M | S |
|---|---|---|---|
| Moons Alt: | | | |
| Suns Alt: | | | |
| Hor: Par: | | | |
| App: Dist: | | | |
| True Dist: | | | |
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| Diff: — | | | |
| Diff: in 3 ho: | | | |
| Longitude | | | |

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| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
| Diff: for 1 Deg: | — | | |
| Diff: for ' " | — | | |
| Corr: | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff: — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt: | | | |
| Stars Alt: | | | |
| Hor: Par: | | | |
| App: Dist: | | | |
| True Dist: | | | |
| d.º at ho: | | | |
| Diff: — | | | |
| Diff: in 3 ho: | | | |
| Longitude | | | |

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| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
| Diff: for 1 Deg: | — | | |
| Diff: for ' " | — | | |
| Corr: | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff: — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt: | | | |
| Suns Alt: | | | |
| Hor: Par: | | | |
| App: Dist: | | | |
| True Dist: | | | |
| d.º at ho: | | | |
| Diff: — | | | |
| Diff: in 3 ho: | | | |
| Longitude | | | |

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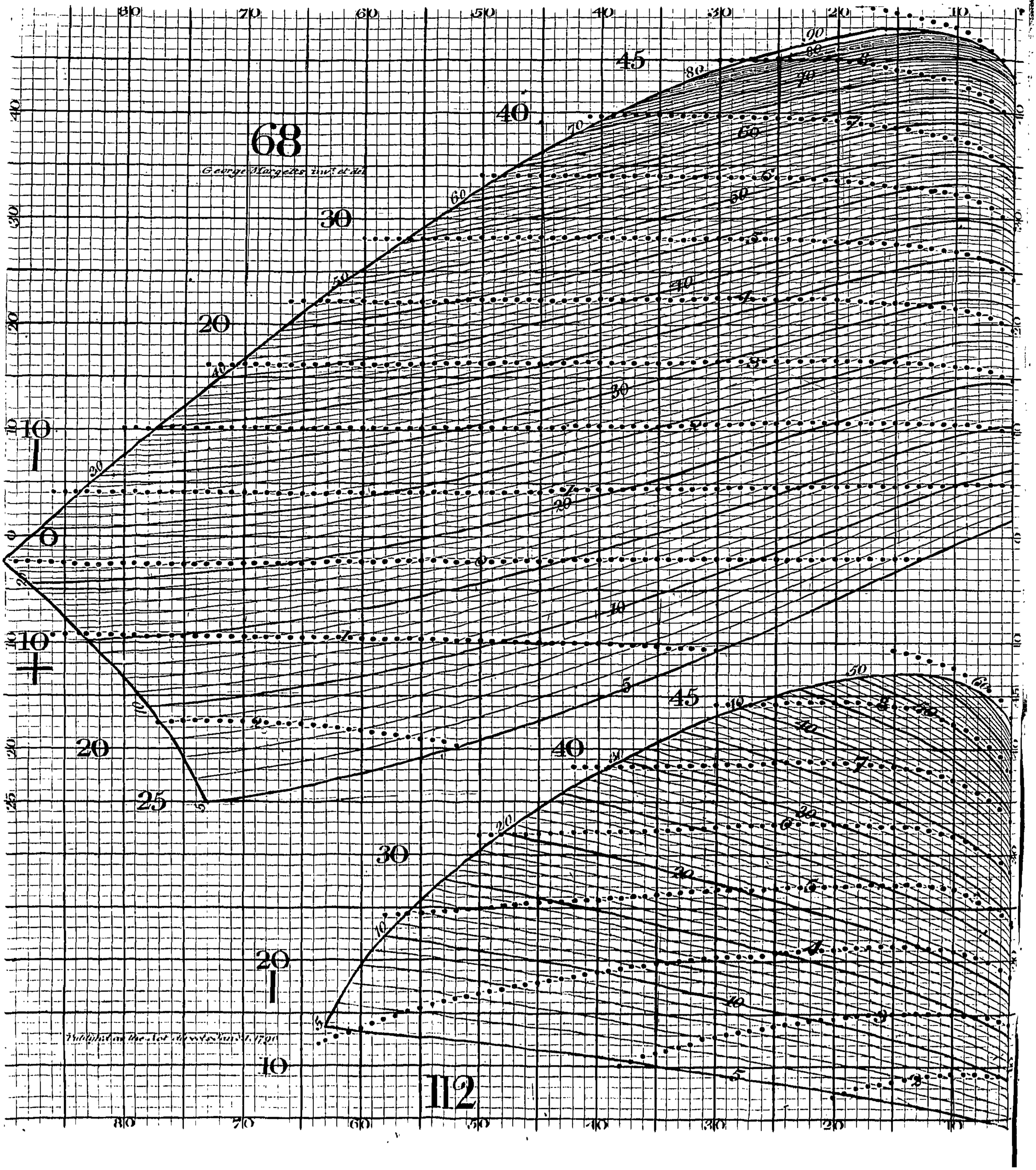
|---|---|---|---|
| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
| Diff: for 1 Deg: | — | | |
| Diff: for ' " | — | | |
| Corr: | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff: — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt: | | | |
| Stars Alt: | | | |
| Hor: Par: | | | |
| App: Dist: | | | |
| True Dist: | | | |
| d.º at ho: | | | |
| Diff: — | | | |
| Diff: in 3 ho: | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
| Diff: for 1 Deg: | — | | |
| Diff: for ' " | — | | |
| Corr: | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff: — | | | |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George Margetts inv.t et del.
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Published as the Act directs Jan.y 1.1791

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

*Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.*

*George Margetts inv.t & del.* *Published as the Act directs Jan.y 1.1790.*

| | D | M | S |
|---|---|---|---|
| Moons *app.Alt:* | | | |
| Suns *app.Alt:* | | | |
| *Moons Hor.Par:* | | | |
| *App: Distance* | | | |
| *True Distance* | | | |
| *d:o at Hours* | | | |
| *difference* — | | | |
| *d:o in 3 Hours* | | | |
| *Longitude* | | | |

| | D | M | S |
|---|---|---|---|
| *1.st Arc:* | — | | |
| *2.nd Arc:* | — | | |
| *Total* | — | | |
| *diff: for 1 Deg:* | — | | |
| *diff: for ′ ″* | — | | |
| *Correction* | — | | |
| *Time at Green.h* | H | M | S |
| *Time at Ship* | | | |
| *Difference* — | | | |

| | D | M | S |
|---|---|---|---|
| Moons *app.Alt* | | | |
| Stars *app.Alt:* | | | |
| *Moons Hor.Par:* | | | |
| *App: Distance* | | | |
| *True Distance* | | | |
| *d:o at Hours* | | | |
| *difference* — | | | |
| *d:o in 3 Hours* | | | |
| *Longitude* | | | |

| | D | M | S |
|---|---|---|---|
| *1.st Arc:* | — | | |
| *2.nd Arc:* | — | | |
| *Total* | — | | |
| *diff: for 1 Deg:* | — | | |
| *diff: for ′ ″* | — | | |
| *Correction* | — | | |
| *Time at Green.h* | H | M | S |
| *Time at Ship.* | | | |
| *Diff:* — | | | |

| | D | M | S |
|---|---|---|---|
| Moons *app.Alt.* | | | |
| Suns *app.Alt:* | | | |
| *Moons Hor.Par:* | | | |
| *App: Distance* | | | |
| *True Distance* | | | |
| *d:o at Hours.* | | | |
| *difference* — | | | |
| *d:o in 3 Hours* | | | |
| *Longitude* | | | |

| | D | M | S |
|---|---|---|---|
| *1.st Arc:* | — | | |
| *2.nd d:o* | — | | |
| *Total* | — | | |
| *diff: for 1 Deg.* | — | | |
| *diff: for ′ ″* | — | | |
| *Correction* | — | | |
| *Time at Green.h* | H | M | S |
| *Time at Ship* | | | |
| *Difference* — | | | |

| | D | M | S |
|---|---|---|---|
| Moons *Alt:* | | | |
| Stars *Alt:* | | | |
| *Hor: Par:* | | | |
| *App: Dist:* | | | |
| *True Dist:* | | | |
| *d:o at ho* | | | |
| *Diff:* — | | | |
| *Diff: in 3 ho:* | | | |
| *Longitude* | | | |

| | D | M | S |
|---|---|---|---|
| *1.st Arc:* | — | | |
| *2.nd Arc:* | — | | |
| *Total* | — | | |
| *Diff: for 1 Deg:* | — | | |
| *Diff: for ′ ″* | — | | |
| *Corr:* | — | | |
| *Time at Green.h* | H | M | S |
| *Time at Ship* | | | |
| *Diff:* — | | | |

| | D | M | S |
|---|---|---|---|
| Moons *Alt:* | | | |
| Suns *Alt:* | | | |
| *Hor: Par:* | | | |
| *App: Dist:* | | | |
| *True Dist:* | | | |
| *d:o at ho:* | | | |
| *Diff:* — | | | |
| *Diff: in 3 ho:* | | | |
| *Longitude* | | | |

| | D | M | S |
|---|---|---|---|
| *1.st Arc:* | — | | |
| *2.nd Arc:* | — | | |
| *Total* | — | | |
| *Diff: for 1 Deg:* | — | | |
| *Diff: for ′ ″* | — | | |
| *Corr:* | — | | |
| *Time at Green.h* | H | M | S |
| *Time at Ship* | | | |
| *Diff:* — | | | |

| | D | M | S |
|---|---|---|---|
| Moons *Alt:* | | | |
| Stars *Alt:* | | | |
| *Hor: Par:* | | | |
| *App: Dist:* | | | |
| *True Dist:* | | | |
| *d:o at ho:* | | | |
| *Diff:* — | | | |
| *Diff: in 3 ho:* | | | |
| *Longitude* | | | |

| | D | M | S |
|---|---|---|---|
| *1.st Arc:* | — | | |
| *2.nd Arc:* | — | | |
| *Total* | — | | |
| *Diff: for 1 Deg:* | — | | |
| *Diff: for ′ ″* | — | | |
| *Corr:* | — | | |
| *Time at Green.h* | H | M | S |
| *Time at Ship* | | | |
| *Diff:* — | | | |

| | D | M | S |
|---|---|---|---|
| Moons *Alt:* | | | |
| Suns *Alt:* | | | |
| *Hor: Par:* | | | |
| *App: Dist:* | | | |
| *True Dist:* | | | |
| *d:o at ho:* | | | |
| *Diff:* — | | | |
| *Diff: in 3 ho:* | | | |
| *Longitude* | | | |

| | D | M | S |
|---|---|---|---|
| *1.st Arc:* | — | | |
| *2.nd Arc:* | — | | |
| *Total* | — | | |
| *Diff: for 1 Deg:* | — | | |
| *Diff: for ′ ″* | — | | |
| *Corr:* | — | | |
| *Time at Green.h* | H | M | S |
| *Time at Ship* | | | |
| *Diff:* — | | | |

| | D | M | S |
|---|---|---|---|
| Moons *Alt:* | | | |
| Stars *Alt:* | | | |
| *Hor: Par:* | | | |
| *App: Dist:* | | | |
| *True Dist:* | | | |
| *d:o at ho* | | | |
| *Diff:* — | | | |
| *Diff: in 3 ho:* | | | |
| *Longitude* | | | |

| | D | M | S |
|---|---|---|---|
| *1.st Arc:* | — | | |
| *2.nd Arc:* | — | | |
| *Total* | — | | |
| *Diff: for 1 Deg:* | — | | |
| *Diff: for ′ ″* | — | | |
| *Corr:* | — | | |
| *Time at Green.h* | H | M | S |
| *Time at Ship* | | | |
| *Diff:* — | | | |

| | D | M | S |
|---|---|---|---|
| Moons *Alt:* | | | |
| Suns *Alt:* | | | |
| *Hor: Par:* | | | |
| *App: Dist:* | | | |
| *True Dist:* | | | |
| *d:o at ho* | | | |
| *Diff:* — | | | |
| *Diff: in 3 ho:* | | | |
| *Longitude* | | | |

| | D | M | S |
|---|---|---|---|
| *1.st Arc:* | — | | |
| *2.nd Arc:* | — | | |
| *Total* | — | | |
| *Diff: for 1 Deg:* | — | | |
| *Diff: for ′ ″* | — | | |
| *Corr:* | — | | |
| *Time at Green.h* | H | M | S |
| *Time at Ship* | | | |
| *Diff:* — | | | |

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George Margetts inv.t et del.

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# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star, & the Apparent Altitudes of their Centers.

George Margetts invt et del. — Published as the Act directs Jan.y 1.1790.

| | D | M | S |
|---|---|---|---|
| Moons app.t Alt.e | | | |
| Suns app.t Alt.e | | | |
| Moons Hor: Par: | | | |
| app.t Distance | | | |
| true Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd d.o | — | | |
| Total | — | | |
| diff for 1 Deg: | — | | |
| diff for ' " | — | | |
| Correction | — | | |
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Difference — | | | |

| | D | M | S |
|---|---|---|---|
| Moons app.t Alt.e | | | |
| Stars app.t Alt.e | | | |
| Moons Hor: Par: | | | |
| app.t Distance | | | |
| true Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| diff for 1 Deg: | — | | |
| diff for ' " | — | | |
| Correction | — | | |
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Difference — | | | |

| | D | M | S |
|---|---|---|---|
| Moons app.t Alt.e | | | |
| Suns app.t Alt.e | | | |
| Moons Hor: Par: | | | |
| app.t Distance | | | |
| true Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| diff for 1 Deg: | — | | |
| diff for ' " | — | | |
| Correction | — | | |
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Difference — | | | |

| | D | M | S |
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| Moons Alt.e | | | |
| Stars Alt.e | | | |
| Hor: Par: | | | |
| App. Dist. | | | |
| True Dist. | | | |
| d.o at h.o | | | |
| Diff. — | | | |
| Diff. in 3 h.o. | | | |
| Longitude | | | |

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|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
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| Corr: | — | | |
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Diff. — | | | |

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| Moons Alt.e | | | |
| Suns Alt.e | | | |
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| App. Dist. | | | |
| True Dist. | | | |
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| Diff. in 3 h.o. | | | |
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| Time at Greenw.h | | | |
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| Diff. — | | | |

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| Moons Alt.e | | | |
| Stars Alt.e | | | |
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| Time at Greenw.h | | | |
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| Time at Greenw.h | | | |
| Time at Ship | | | |
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| Stars Alt.e | | | |
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| App. Dist. | | | |
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| Diff. — | | | |
| Diff. in 3 h.o. | | | |
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| Time at Greenw.h | | | |
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| Moons Alt.e | | | |
| Stars Alt.e | | | |
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| Diff. in 3 h.o. | | | |
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| 2.nd Arc. | — | | |
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| Diff. for 1 Deg. | — | | |
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| Time at Greenw.h | | | |
| Time at Ship | | | |
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| Moons Alt.e | | | |
| Suns Alt.e | | | |
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| Diff. in 3 h.o. | | | |
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| Time at Greenw.h | | | |
| Time at Ship | | | |
| Diff. — | | | |

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Published as the Act directs 5 Jan.y 1790

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS.

## Using the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

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Published as the Act directs Jan.y 1.1790.

| | D | M | S |
|---|---|---|---|
| Moons app. Alt. | | | |
| Suns app Alt. | | | |
| Moons Hor: Par: | | | |
| app. Distance | | | |
| true Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd d.o | — | | |
| Total | — | | |
| diff for 1 Deg: | — | | |
| diff for ' " | — | | |
| Correction | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Difference — | | | |

| | D | M | S |
|---|---|---|---|
| Moons app. Alt. | | | |
| Stars app. Alt. | | | |
| Moons Hor: Par. | | | |
| app. Distance | | | |
| true Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

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| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| diff for 1 Deg. | — | | |
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| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Difference — | | | |

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| Moons app. Alt. | | | |
| Suns app. Alt. | | | |
| Moons Hor: Par. | | | |
| app. Distance | | | |
| true Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

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| Time at Greenw.h | H | M | S |
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| Moons Alt. | | | |
| Stars Alt. | | | |
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| App. Dist. | | | |
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| 2.nd Arc. | — | | |
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| Time at Ship | | | |
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| Sums Alt. | | | |
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| True Dist. | | | |
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| Moons Alt. | | | |
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| Moons Alt. | | | |
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| Time at Greenw.h | H | M | S |
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| Moons Alt. | | | |
| Stars Alt. | | | |
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| Diff. for ' " | — | | |
| Corr.: | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff. — | | | |

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George Margetts inv.t et del.

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Published as the Act directs June 1.1780.

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star, & the Apparent Altitudes of their Centers.

George Margetts invt. et del. — Publish'd as the Act directs Jan.y 1.1730.

| | D | M | S |
|---|---|---|---|
| Moons app. Alt. | | | |
| Suns app Alt. | | | |
| Moons Hor: Par: | | | |
| app. Distance | | | |
| true Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd d.o | — | | |
| Total | — | | |
| diff for 1 Deg: | — | | |
| diff for ' " | — | | |
| Correction | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Difference — | | | |

| | D | M | S |
|---|---|---|---|
| Moons app. Alt. | | | |
| Stars app. Alt. | | | |
| Moons Hor: Par: | | | |
| app. Distance | | | |
| true Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

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| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| diff for 1 Deg: | — | | |
| diff: for ' " | — | | |
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| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Difference — | | | |

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| Moons app. Alt. | | | |
| Suns app. Alt. | | | |
| Moons Hor: Par: | | | |
| app. Distance | | | |
| true Distance | | | |
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| d.o in 3 Hours | | | |
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| Stars Alt. | | | |
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| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff. — | | | |

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| Sums Alt. | | | |
| Hor: Par: | | | |
| App. Dist. | | | |
| True Dist. | | | |
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| 2.nd Arc. | — | | |
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| Stars Alt. | | | |
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| 2.nd Arc. | — | | |
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| Moons Alt. | | | |
| Sums Alt. | | | |
| Hor: Par: | | | |
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| True Dist. | | | |
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| Total | — | | |
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| Time at Greenw.h | H | M | S |
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| | D | M | S |
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| Moons Alt. | | | |
| Stars Alt. | | | |
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| 2.nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ' " | — | | |
| Corr: | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
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| | D | M | S |
|---|---|---|---|
| Moons Alt. | | | |
| Sums Alt. | | | |
| Hor: Par: | | | |
| App. Dist. | | | |
| True Dist. | | | |
| d.o at ho. | | | |
| Diff. — | | | |
| Diff. in 3 ho. | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ' " | — | | |
| Corr: | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff. — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt. | | | |
| Stars Alt. | | | |
| Hor: Par: | | | |
| App. Dist. | | | |
| True Dist. | | | |
| d.o at ho. | | | |
| Diff. — | | | |
| Diff. in 3 ho. | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ' " | — | | |
| Corr: | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff. — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt. | | | |
| Sums Alt. | | | |
| Hor: Par: | | | |
| App. Dist. | | | |
| True Dist. | | | |
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| | D | M | S |
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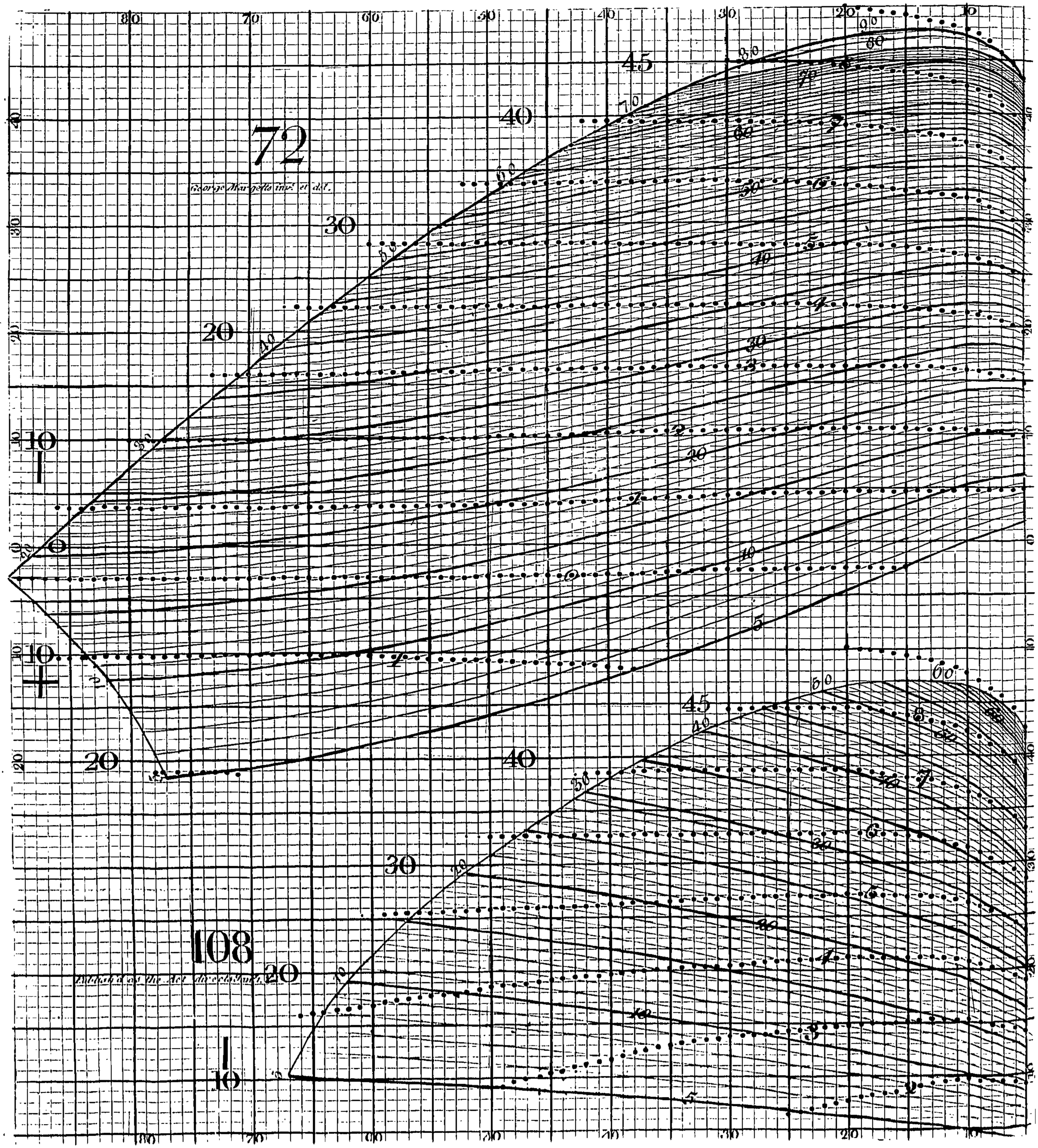
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ' " | — | | |
| Corr: | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff. — | | | |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George Margetts inv.t et del.t
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# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts inv.et del.

Published as the Act directs Jan.y 1.1790.

| | D | M | S |
|---|---|---|---|
| Moons app:Alt: | | | |
| Suns app:Alt: | | | |
| Moons Hor:Par: | | | |
| App: Distance | | | |
| True Distance | | | |
| d:o at Hours | | | |
| difference — | | | |
| d:o in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1:st Arc: | — | | |
| 2:nd Arc: | — | | |
| Total | — | | |
| diff: for 1 Deg: | — | | |
| diff: for ' " | — | | |
| Correction | — | | |
| | H | M | S |
| Time at Greenw:h | | | |
| Time at Ship | | | |
| Difference — | | | |

| | D | M | S |
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| Moons app:Alt: | | | |
| Stars app:Alt: | | | |
| Moons Hor:Par: | | | |
| App: Distance | | | |
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| Moons Hor:Par: | | | |
| App: Distance | | | |
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| Time at Greenw:h | | | |
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| Stars Alt: | | | |
| Hor: Par: | | | |
| App: Dist: | | | |
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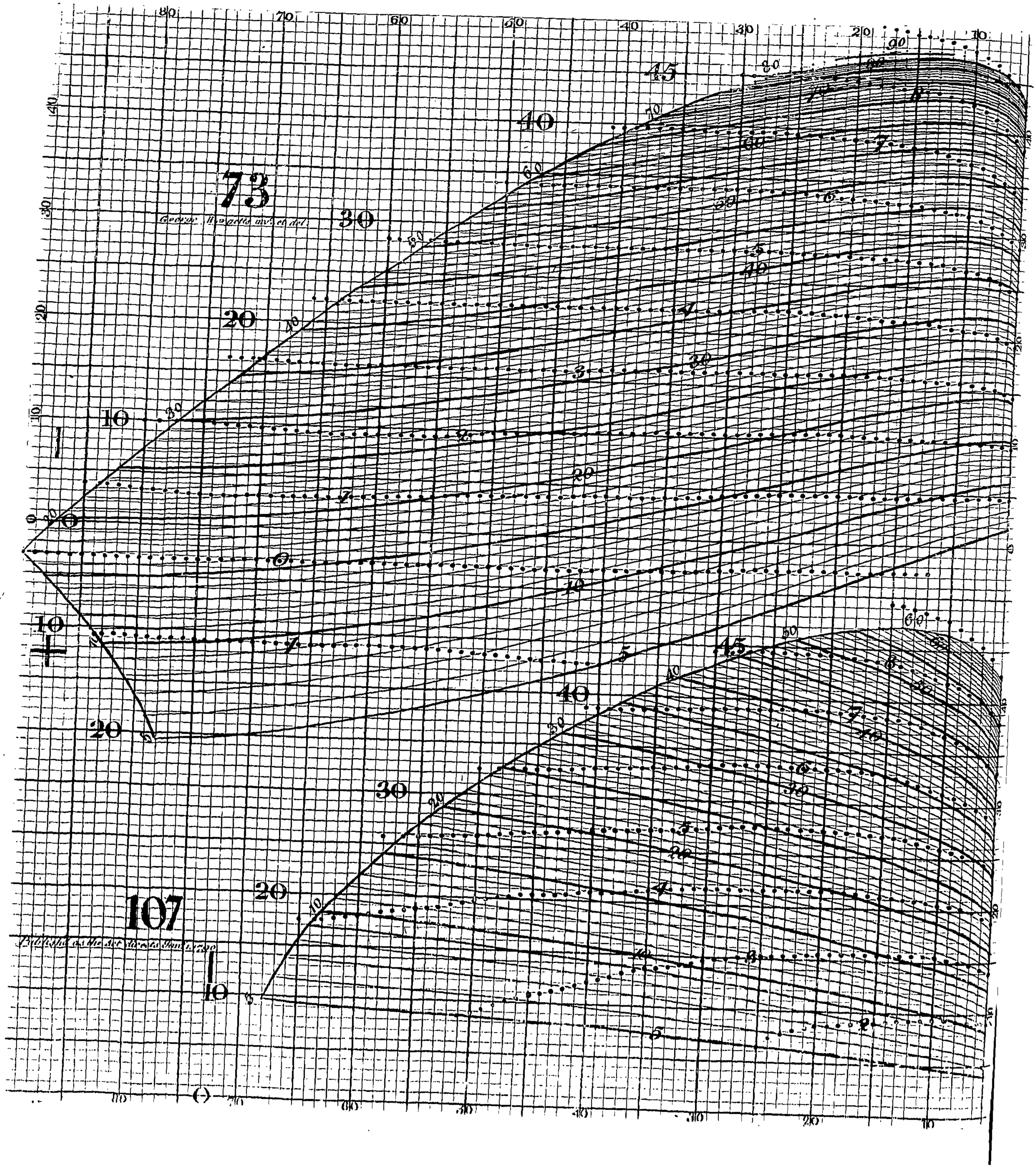
73
George Hargetts inv. et del.
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Published as the Act directs Jan. 1, 1790

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts inv.t et del.

Published as the Act directs Jan 1. 1790.

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| Moons app. Alt. | | | |
| Suns app Alt. | | | |
| Moons Hor Par: | | | |
| app. Distance | | | |
| true Distance | | | |
| d.° at Hours | | | |
| difference — | | | |
| d.° in 3 Hours | | | |
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| Stars app. Alt. | | | |
| Moons Hor: Par: | | | |
| app. Distance | | | |
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*George Shrowsbury inv.t et del.t*

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*Published as the Act directs 1st March 1796*

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts invt. et del. — Published as the Act directs Jan.y 1.1790.

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| Moons app: Alt: | | | | 1st Arc: | — | | |
| Suns app: Alt: | | | | 2nd Arc: | — | | |
| Moons Hor: Par: | | | | Total | — | | |
| App: Distance | | | | diff: for 1 Deg: | — | | |
| True Distance | | | | diff: for ′ ″ | — | | |
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| difference — | | | | Time at Greenw.h | H | M | S |
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| Stars app: Alt: | | | | 2nd Arc: | — | | |
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| App: Dist: | | | | Diff: for 1 Deg: | — | | |
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| d.o at ho | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | |

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons Alt: | | | | 1st Arc: | — | | |
| Stars Alt: | | | | 2nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| d.o at ho | | | | Corr: | — | | |
| Diff: — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: — | | | |

| | D | M | S | | D | M | S |
|---|---|---|---|---|---|---|---|
| Moons Alt: | | | | 1st Arc: | — | | |
| Suns Alt: | | | | 2nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| d.o at ho | | | | Corr: | — | | |
| Diff — | | | | Time at Greenw.h | H | M | S |
| Diff: in 3 ho. | | | | Time at Ship | | | |
| Longitude | | | | Diff: | | | |

80 70 60 50 40 30 20 10

75

George Margetts invt et delt.

45 40 30 20 10 0 10 15

105

Publish'd as the Act directs Jan.y 1.1795.

80 70 60 50 40 30 20 10

60 70 80 90 45 40 30 20 10 0 10 20 30 40 45 50 60

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts inv.t et del.

Publish'd as the Act directs Jan.y 1.1790.

| | D | M | S |
|---|---|---|---|
| Moons app. Alt. | | | |
| Suns app. Alt. | | | |
| Moons Hor: Par: | | | |
| app. Distance | | | |
| true Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd d.o | — | | |
| Total | — | | |
| diff for 1 Deg: | — | | |
| diff for ' " | — | | |
| Correction | — | | |
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Difference — | | | |

| | D | M | S |
|---|---|---|---|
| Moons app. Alt. | | | |
| Stars app. Alt. | | | |
| Moons Hor: Par: | | | |
| app. Distance | | | |
| true Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| diff for 1 Deg: | — | | |
| diff for ' " | — | | |
| Correction | — | | |
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Difference — | | | |

| | D | M | S |
|---|---|---|---|
| Moons app. Alt. | | | |
| Suns app. Alt. | | | |
| Moons Hor: Par: | | | |
| app. Distance | | | |
| true Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd d.o | — | | |
| Total | — | | |
| diff for 1 Deg: | — | | |
| diff for ' " | — | | |
| Correction | — | | |
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Difference — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt. | | | |
| Stars Alt. | | | |
| Hor: Par: | | | |
| App. Dist. | | | |
| True Dist. | | | |
| d.o at ho. | | | |
| Diff. — | | | |
| Diff in 3 ho. | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ' " | — | | |
| Corr: | — | | |
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Diff. — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt. | | | |
| Suns Alt. | | | |
| Hor: Par: | | | |
| App. Dist. | | | |
| True Dist. | | | |
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| Longitude | | | |

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| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
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| Time at Greenw.h | | | |
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| Moons Alt. | | | |
| Stars Alt. | | | |
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| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
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| Diff. for 1 Deg. | — | | |
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| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Diff. — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt. | | | |
| Sun's Alt. | | | |
| Hor: Par: | | | |
| App. Dist. | | | |
| True Dist. | | | |
| d.o at ho. | | | |
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| Diff in 3 ho. | | | |
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|---|---|---|---|
| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ' " | — | | |
| Corr: | — | | |
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Diff. — | | | |

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| Moons Alt. | | | |
| Stars Alt. | | | |
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| 1.st Arc. | — | | |
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| Time at Greenw.h | | | |
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| Moons Alt. | | | |
| Sun's Alt. | | | |
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| Time at Greenw.h | | | |
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| Time at Greenw.h | | | |
| Time at Ship | | | |
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| Moons Alt. | | | |
| Suns Alt. | | | |
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| App. Dist. | | | |
| True Dist. | | | |
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| 2.nd Arc. | — | | |
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| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Diff. — | | | |

| | D | M | S |
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| Moons Alt. | | | |
| Stars Alt. | | | |
| Hor: Par: | | | |
| App. Dist. | | | |
| True Dist. | | | |
| d.o at ho. | | | |
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| Diff in 3 ho. | | | |
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| 2.nd Arc. | — | | |
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| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Diff. — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt. | | | |
| Suns Alt. | | | |
| Hor: Par: | | | |
| App. Dist. | | | |
| True Dist. | | | |
| d.o at ho. | | | |
| Diff. — | | | |
| Diff in 3 ho. | | | |
| Longitude | | | |

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| 2.nd Arc. | — | | |
| Total | — | | |
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| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Diff. — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt. | | | |
| Stars Alt. | | | |
| Hor: Par: | | | |
| App. Dist. | | | |
| True Dist. | | | |
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| Diff in 3 ho. | | | |
| Longitude | | | |

| | D | M | S |
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| 1.st Arc. | — | | |
| 2.nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ' " | — | | |
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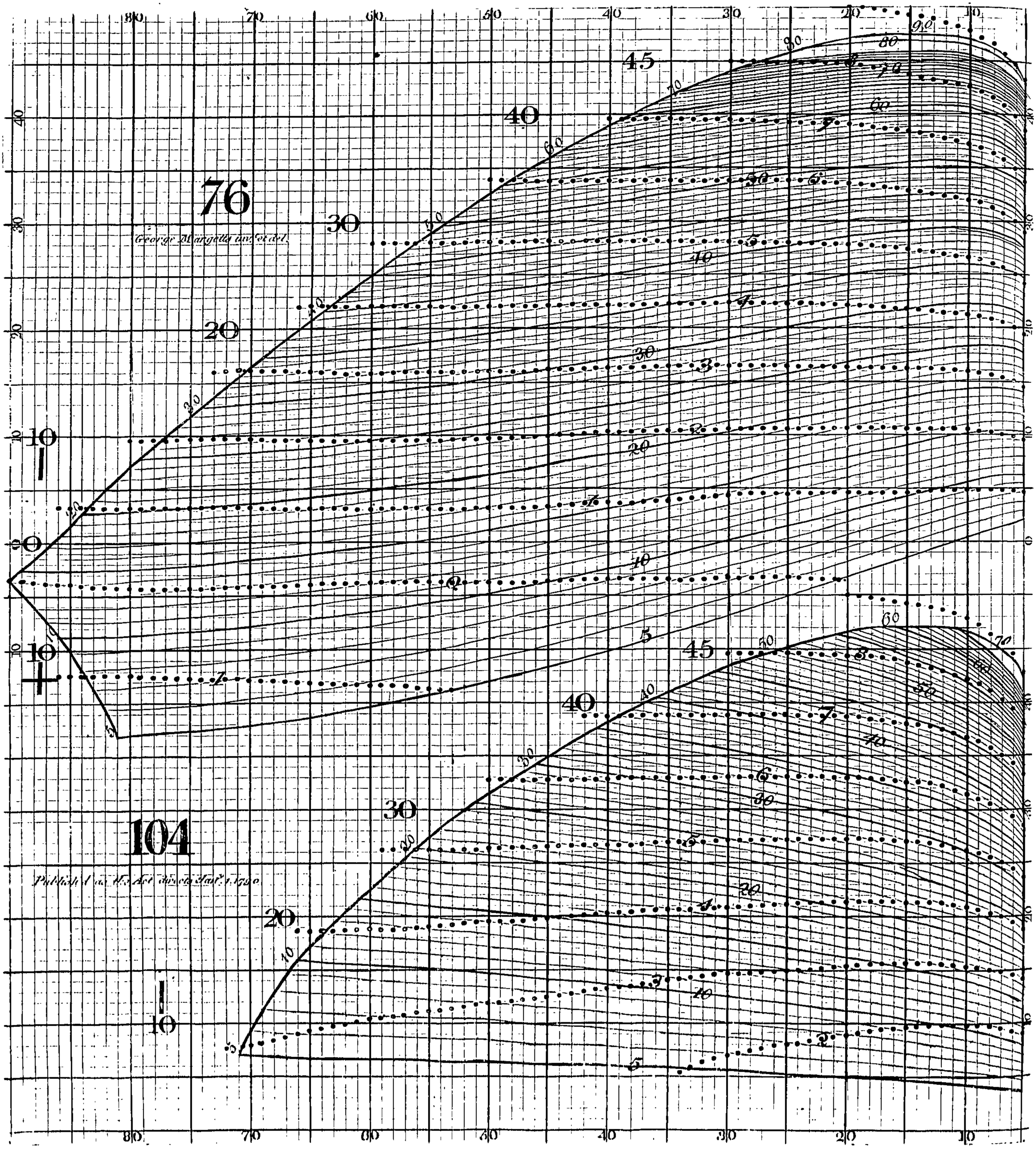
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Diff. — | | | |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George Mangelly Junr. et del.
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Published as the Act directs Janr. 1. 1790

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

*Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star, & the Apparent Altitudes of their Centers.*

*George Margetts inv.t et del.* *Publish'd as the Act directs Jan.1 1790.*

| | D | M | S |
|---|---|---|---|
| Moons *app:Alt:* | | | |
| Suns *app:Alt:* | | | |
| *Moons Hor:Par:* | | | |
| *App:Distance* | | | |
| *True Distance* | | | |
| *d:o at Hours* | | | |
| *difference* — | | | |
| *d:o in 3 Hours* | | | |
| *Longitude* | | | |

| | D | M | S |
|---|---|---|---|
| *1:st Arc:* | — | | |
| *2:nd Arc:* | — | | |
| *Total* | — | | |
| *diff: for 1 Deg:* | — | | |
| *diff: for ′ ″* | — | | |
| *Correction* | — | | |
| *Time at Greenw:* | H | M | S |
| *Time at Ship* | | | |
| *Difference* — | | | |

| | D | M | S |
|---|---|---|---|
| Moons *app:Alt:* | | | |
| Stars *app:Alt:* | | | |
| *Moons Hor:Par:* | | | |
| *App:Distance* | | | |
| *True Distance* | | | |
| *d:o at Hours* | | | |
| *difference* — | | | |
| *d:o in 3 Hours* | | | |
| *Longitude* | | | |

| | D | M | S |
|---|---|---|---|
| *1:st Arc:* | — | | |
| *2:nd Arc:* | — | | |
| *Total* | — | | |
| *diff: for 1 Deg:* | — | | |
| *diff: for ′ ″* | — | | |
| *Correction* | — | | |
| *Time at Greenw:* | H | M | S |
| *Time at Ship.* | | | |
| *Diff:* — | | | |

| | D | M | S |
|---|---|---|---|
| Moons *app:Alt.* | | | |
| Suns *app:Alt:* | | | |
| *Moons Hor:Par:* | | | |
| *App:Distance* | | | |
| *True Distance* | | | |
| *d:o at Hours.* | | | |
| *difference* — | | | |
| *d:o in 3 Hours* | | | |
| *Longitude* | | | |

| | D | M | S |
|---|---|---|---|
| *1:st Arc.* | — | | |
| *2:nd d:o* | — | | |
| *Total* | — | | |
| *diff: for 1 Deg.* | — | | |
| *diff: for ′ ″* | — | | |
| *Correction* | — | | |
| *Time at Greenw:* | H | M | S |
| *Time at Ship* | | | |
| *Difference* — | | | |

| | D | M | S |
|---|---|---|---|
| Moons *Alt:* | | | |
| Stars *Alt:* | | | |
| *Hor: Par:* | | | |
| *App: Dist:* | | | |
| *True Dist:* | | | |
| *d:o at ho* | | | |
| *Diff:* — | | | |
| *Diff: in 3 ho:* | | | |
| *Longitude* | | | |

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| *1:st Arc:* | — | | |
| *2:nd Arc:* | — | | |
| *Total* | — | | |
| *Diff: for 1 Deg:* | — | | |
| *Diff: for ′ ″* | — | | |
| *Corr:* | — | | |
| *Time at Greenw:* | H | M | S |
| *Time at Ship* | | | |
| *Diff:* — | | | |

| | D | M | S |
|---|---|---|---|
| Moons *Alt:* | | | |
| Suns *Alt:* | | | |
| *Hor: Par:* | | | |
| *App: Dist:* | | | |
| *True Dist:* | | | |
| *d:o at ho* | | | |
| *Diff:* — | | | |
| *Diff: in 3 ho:* | | | |
| *Longitude* | | | |

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| *1:st Arc:* | — | | |
| *2:nd Arc:* | — | | |
| *Total* | — | | |
| *Diff: for 1 Deg:* | — | | |
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| *Time at Greenw:* | H | M | S |
| *Time at Ship* | | | |
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| | D | M | S |
|---|---|---|---|
| Moons *Alt:* | | | |
| Stars *Alt:* | | | |
| *Hor: Par:* | | | |
| *App: Dist:* | | | |
| *True Dist:* | | | |
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| *Diff: in 3 ho:* | | | |
| *Longitude* | | | |

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|---|---|---|---|
| *1:st Arc:* | — | | |
| *2:nd Arc:* | — | | |
| *Total* | — | | |
| *Diff: for 1 Deg:* | — | | |
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| *Time at Greenw:* | H | M | S |
| *Time at Ship* | | | |
| *Diff:* — | | | |

| | D | M | S |
|---|---|---|---|
| Moons *Alt:* | | | |
| Suns *Alt:* | | | |
| *Hor: Par:* | | | |
| *App: Dist:* | | | |
| *True Dist:* | | | |
| *d:o at ho* | | | |
| *Diff:* — | | | |
| *Diff: in 3 ho:* | | | |
| *Longitude* | | | |

| | D | M | S |
|---|---|---|---|
| *1:st Arc:* | — | | |
| *2:nd Arc:* | — | | |
| *Total* | — | | |
| *Diff: for 1 Deg:* | — | | |
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| *Time at Greenw:* | H | M | S |
| *Time at Ship* | | | |
| *Diff:* — | | | |

| | D | M | S |
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| Moons *Alt:* | | | |
| Stars *Alt:* | | | |
| *Hor: Par:* | | | |
| *App: Dist:* | | | |
| *True Dist:* | | | |
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| *Diff:* — | | | |
| *Diff: in 3 ho:* | | | |
| *Longitude* | | | |

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|---|---|---|---|
| *1:st Arc:* | — | | |
| *2:nd Arc:* | — | | |
| *Total* | — | | |
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| *Corr:* | — | | |
| *Time at Greenw:* | H | M | S |
| *Time at Ship* | | | |
| *Diff:* — | | | |

| | D | M | S |
|---|---|---|---|
| Moons *Alt:* | | | |
| Suns *Alt:* | | | |
| *Hor: Par:* | | | |
| *App: Dist:* | | | |
| *True Dist:* | | | |
| *d:o at ho* | | | |
| *Diff:* — | | | |
| *Diff: in 3 ho:* | | | |
| *Longitude* | | | |

| | D | M | S |
|---|---|---|---|
| *1:st Arc:* | — | | |
| *2:nd Arc:* | — | | |
| *Total* | — | | |
| *Diff: for 1 Deg:* | — | | |
| *Diff: for ′ ″* | — | | |
| *Corr:* | — | | |
| *Time at Greenw:* | H | M | S |
| *Time at Ship* | | | |
| *Diff:* — | | | |

| | D | M | S |
|---|---|---|---|
| Moons *Alt:* | | | |
| Stars *Alt:* | | | |
| *Hor: Par:* | | | |
| *App: Dist:* | | | |
| *True Dist:* | | | |
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| *Diff:* — | | | |
| *Diff: in 3 ho:* | | | |
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| | D | M | S |
|---|---|---|---|
| *1:st Arc:* | — | | |
| *2:nd Arc:* | — | | |
| *Total* | — | | |
| *Diff: for 1 Deg:* | — | | |
| *Diff: for ′ ″* | — | | |
| *Corr:* | — | | |
| *Time at Greenw:* | H | M | S |
| *Time at Ship* | | | |
| *Diff:* — | | | |

| | D | M | S |
|---|---|---|---|
| Moons *Alt:* | | | |
| Suns *Alt:* | | | |
| *Hor: Par:* | | | |
| *App: Dist:* | | | |
| *True Dist:* | | | |
| *d:o at ho* | | | |
| *Diff:* — | | | |
| *Diff: in 3 ho:* | | | |
| *Longitude* | | | |

| | D | M | S |
|---|---|---|---|
| *1:st Arc:* | — | | |
| *2:nd Arc:* | — | | |
| *Total* | — | | |
| *Diff: for 1 Deg:* | — | | |
| *Diff: for ′ ″* | — | | |
| *Corr:* | — | | |
| *Time at Greenw:* | H | M | S |
| *Time at Ship* | | | |
| *Diff:* — | | | |

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George Margetts inv.t et del.

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Published as the Act directs Jan.y 1st 1790.

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts invt et del. — Published as the Act directs Jan 1. 1790.

| | D | M | S |
|---|---|---|---|
| Moons app. Alt. | | | |
| Suns app Alt. | | | |
| Moons Hor Par: | | | |
| app. Distance | | | |
| true Distance | | | |
| d°. at Hours | | | |
| difference — | | | |
| d°. in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1st Arc. | — | | |
| 2nd d°. | — | | |
| Total | — | | |
| diff for 1 Deg: | — | | |
| diff for ' " | — | | |
| Correction | — | | |
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Difference — | | | |

| | D | M | S |
|---|---|---|---|
| Moons app. Alt. | | | |
| Stars app. Alt. | | | |
| Moons Hor. Par: | | | |
| app. Distance | | | |
| true Distance | | | |
| d°. at Hours | | | |
| difference — | | | |
| d°. in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1st Arc. | — | | |
| 2nd Arc. | — | | |
| Total | — | | |
| diff for 1 Deg: | — | | |
| diff for ' " | — | | |
| Correction | — | | |
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Difference — | | | |

| | D | M | S |
|---|---|---|---|
| Moons app. Alt. | | | |
| Suns app. Alt. | | | |
| Moons Hor. Par: | | | |
| app. Distance | | | |
| true Distance | | | |
| d°. at Hours | | | |
| difference — | | | |
| d°. in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1st Arc. | — | | |
| 2nd d°. | — | | |
| Total | — | | |
| diff. for 1 Deg: | — | | |
| diff. for ' " | — | | |
| Correction | — | | |
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
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| d°. at hor. | | | |
| Diff. — | | | |
| Diff. in 3 hor. | | | |
| Longitude | | | |

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| Time at Greenw.h | | | |
| Time at Ship | | | |
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George Mayell inv.t et del.

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Published as the Act directs 1st Nov.r 1790.

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Sturgeon's inv.t et del.

Publish.d at the Act Streets, Jan.y 1.1790.

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| Moons app. Alt. | | | |
| Suns app Alt. | | | |
| Moons Hor: Par: | | | |
| app. Distance | | | |
| true Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
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| Moons app Alt. | | | |
| Stars app Alt. | | | |
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| app Distance | | | |
| true Distance | | | |
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| d.o in 3 Hours | | | |
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| Moons app Alt. | | | |
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| Moons Hor: Par: | | | |
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| d.o in 3 Hours | | | |
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| Time at Ship | | | |
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George Margetts ouvrage del.

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Published as the Act directs 1st Jany 1790.

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts inv.t et Del.

Published as the Act directs Jan.y 1.1790.

| | D | M | S |
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| Moons app.t Alt.r | | | |
| Suns app.t Alt.r | | | |
| Moons Hor: Par: | | | |
| app.t Distance | | | |
| true Distance | | | |
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| Moons app.t Alt.r | | | |
| Stars app.t Alt.r | | | |
| Moons Hor: Par: | | | |
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| 2.nd Arc. | — | | |
| Total | — | | |
| Diff.ce for 1 Deg. | — | | |
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| Time at Greenw.h | | | |
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| App.t Dist.t | | | |
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| 2.nd Arc. | — | | |
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| Time at Greenw.h | | | |
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| Diff.ce for 1 Deg. | — | | |
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| Time at Greenw.h | | | |
| Time at Ship | | | |
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George Hamilton inv. et del.

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Published as the Act directs Nov.r 1. 1790.

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS.

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts invt. et del.

Published as the Act directs June 1.1790.

| | D | M | S |
|---|---|---|---|
| Moons app. Alt. | | | |
| Suns app Alt. | | | |
| Moons Hor: Par: | | | |
| app. Distance | | | |
| true Distance | | | |
| d°. at Hours | | | |
| difference — | | | |
| d°. in 3 Hours | | | |
| Longitude | | | |

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| 1st Arc. | — | | |
| 2nd d° | — | | |
| Total | — | | |
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| diff for ' " | — | | |
| Correction | — | | |
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| Time at Ship | | | |
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| Stars app. Alt. | | | |
| Moons Hor: Par: | | | |
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| true Distance | | | |
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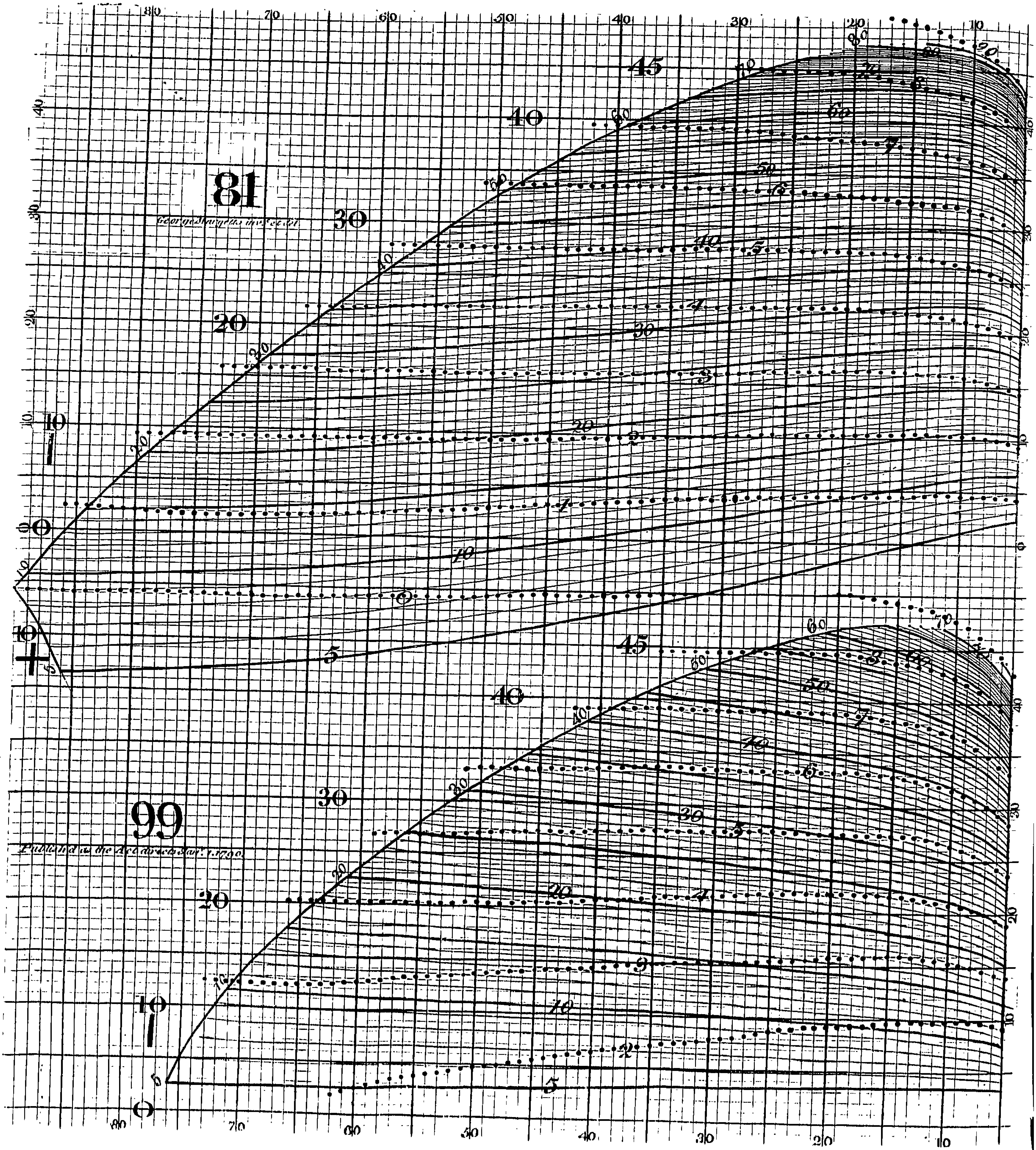
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Publish'd as the Act directs Jan. 1. 1790.

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star, & the Apparent Altitudes of their Centers.

George Margetts sculpt et del. — Published as the Act directs Jan 1 1790.

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| Moons app. Alt. | | | |
| Suns app Alt. | | | |
| Moons Hor Par: | | | |
| app. Distance | | | |
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| d° in 3 Hours | | | |
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| Stars app. Alt. | | | |
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George Margetts inv.et del.

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Published as the Act directs Jan.y 1.st 1790.

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts invt. et del. — Published as the Act directs Jan.y 1790.

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| Moons app. Alt. | | | |
| Suns app. Alt. | | | |
| Moons Hor. Par: | | | |
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| true Distance | | | |
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| d.o in 3 Hours | | | |
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| Stars app. Alt. | | | |
| Moons Hor. Par: | | | |
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| Diff. — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt. | | | |
| Suns Alt. | | | |
| Hor: Par: | | | |
| App. Dist. | | | |
| True Dist. | | | |
| d.o at h.o. | | | |
| Diff. — | | | |
| Diff. in 3 h.o. | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1st Arc. | — | | |
| 2nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ' " | — | | |
| Corr: | — | | |
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Diff. — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt. | | | |
| Stars Alt. | | | |
| Hor: Par: | | | |
| App. Dist. | | | |
| True Dist. | | | |
| d.o at h.o. | | | |
| Diff. — | | | |
| Diff. in 3 h.o. | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1st Arc. | — | | |
| 2nd Arc. | — | | |
| Total | — | | |
| Diff. for 1 Deg. | — | | |
| Diff. for ' " | — | | |
| Corr: | — | | |
| | H | M | S |
| Time at Greenw.h | | | |
| Time at Ship | | | |
| Diff. — | | | |

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George Margetts inv.et del.

97

Published as the Act directs 1st Feb.y 1795

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts inv.t et del.

Publish'd as the Act directs Jan.y 1.1790.

| | D | M | S |
|---|---|---|---|
| Moons app.Alt: | | | |
| Suns app.Alt: | | | |
| Moons Hor.Par: | | | |
| App.Distance | | | |
| True Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
| diff: for 1 Deg: | — | | |
| diff: for ' " | — | | |
| Correction | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Difference — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt: | | | |
| Stars Alt: | | | |
| Hor: Par: | | | |
| App: Dist: | | | |
| True Dist: | | | |
| d.o at ho | | | |
| Diff: — | | | |
| Diff: in 3 ho: | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
| Diff: for 1 Deg: | — | | |
| Diff: for ' " | — | | |
| Corr: | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff: — | | | |

| | D | M | S |
|---|---|---|---|
| Moons Alt: | | | |
| Suns Alt: | | | |
| Hor: Par: | | | |
| App: Dist: | | | |
| True Dist: | | | |
| d.o at ho: | | | |
| Diff: — | | | |
| Diff: in 3 ho: | | | |
| Longitude | | | |

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| 1.st Arc: | — | | |
| 2.nd Arc: | — | | |
| Total | — | | |
| Diff: for 1 Deg: | — | | |
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| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
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| Moons Alt: | | | |
| Stars Alt: | | | |
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| App: Dist: | | | |
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| Corr: | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
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| Moons Alt: | | | |
| Suns Alt: | | | |
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| App: Dist: | | | |
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| 2.nd Arc: | — | | |
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| Diff: for ' " | — | | |
| Corr: | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
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| Moons Alt: | | | |
| Stars Alt: | | | |
| Hor: Par: | | | |
| App: Dist: | | | |
| True Dist: | | | |
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| 2.nd Arc: | — | | |
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| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
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| Moons app.Alt: | | | |
| Suns app.Alt: | | | |
| Moons Hor.Par: | | | |
| App.Distance | | | |
| True Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

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| 2.nd Arc: | — | | |
| Total | — | | |
| diff: for 1 Deg: | — | | |
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| Correction | — | | |
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| Moons Alt: | | | |
| Stars Alt: | | | |
| Hor: Par: | | | |
| App: Dist: | | | |
| True Dist: | | | |
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| Time at Ship | | | |
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| Moons Alt: | | | |
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| Stars Alt: | | | |
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| App: Dist: | | | |
| True Dist: | | | |
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| Moons Alt: | | | |
| Stars Alt: | | | |
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| Diff: for ' " | — | | |
| Corr: | — | | |
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| Time at Ship | | | |
| Diff: — | | | |

84

George Margoctis inv.t et del.

96

Published as the Act directs Jan.y 1. 1790.

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts inv.t et del.

Publish.d as the Act directs Jan.y 1.1790.

| | D | M | S |
|---|---|---|---|
| Moons app. Alt. | | | |
| Suns app Alt. | | | |
| Moons Hor: Par: | | | |
| app. Distance | | | |
| true Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
| Longitude | | | |

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| 1.st Arc. | — | | |
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| Time at Ship | | | |
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| Moons app. Alt. | | | |
| Stars app. Alt. | | | |
| Moons Hor: Par: | | | |
| app. Distance | | | |
| true Distance | | | |
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| difference — | | | |
| d.o in 3 Hours | | | |
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| Moons app. Alt. | | | |
| Suns app. Alt. | | | |
| Moons Hor: Par: | | | |
| app. Distance | | | |
| true Distance | | | |
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| difference — | | | |
| d.o in 3 Hours | | | |
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| Time at Greenw.h | H | M | S |
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| Stars Alt. | | | |
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| 1.st Arc. | — | | |
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| Diff. for ' " | — | | |
| Corr: | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
| Diff. — | | | |

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George Margetts invt. & del.

95

Published as the Act directs 1st Nov.r 1790.

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS.

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star, & the Apparent Altitudes of their Centers.

Vincent Maskelyne inv.et sc.

Published as the Act directs Jan.1.1766.

| | D | M | S |
|---|---|---|---|
| Moons app.Alt. | | | |
| Suns app.Alt. | | | |
| Moons Hor:Par: | | | |
| app.Distance | | | |
| true Distance | | | |
| d°at Hours | | | |
| difference — | | | |
| d° in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1st Arc. | — | | |
| 2nd d° | — | | |
| Total | — | | |
| diff for 1 Deg: | — | | |
| diff for ' " | — | | |
| Correction | — | | |
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| Time at Greenwh. | | | |
| Time at Ship | | | |
| Difference — | | | |

| | D | M | S |
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| Moons app.Alt. | | | |
| Stars app.Alt. | | | |
| Moons Hor:Par: | | | |
| app.Distance | | | |
| true Distance | | | |
| d°at Hours | | | |
| difference — | | | |
| d°in 3 Hours | | | |
| Longitude | | | |

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| 2nd Arc. | — | | |
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| diff for ' " | — | | |
| Correction | — | | |
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| Time at Greenwh. | | | |
| Time at Ship | | | |
| Difference — | | | |

| | D | M | S |
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| Moons app.Alt. | | | |
| Suns app.Alt. | | | |
| Moons Hor:Par: | | | |
| app.Distance | | | |
| true Distance | | | |
| d°at Hours | | | |
| difference — | | | |
| d°in 3 Hours | | | |
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| Time at Ship | | | |
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| Moons Alt. | | | |
| Stars Alt. | | | |
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| Moons Alt. | | | |
| Stars Alt. | | | |
| Hor: Par: | | | |
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| Time at Greenwh. | | | |
| Time at Ship | | | |
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Pendule Marquetis inv.et dir.

94

Publié par le Bureau des Longitudes, An X 1798

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS.

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts inv.t et del.

Publish'd as the Act directs Jan.y 1.1790.

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| Moons app. Alt. | | | |
| Suns app. Alt. | | | |
| Moons Hor: Par: | | | |
| app. Distance | | | |
| true Distance | | | |
| d.o at Hours | | | |
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George Margetts inv.t et del.

93

Published as the Act directs Nov.r 1.1790.

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Giving the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts invt et del. — Published as the Act directs Jan 1. 1790.

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| Moons app. Alt. | | | |
| Suns app. Alt. | | | |
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| Moons Hor: Par: | | | |
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| Time at Ship | | | |
| Diff. — | | | |

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George Margetts inv.t et del.

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Published as the Act directs 9 Jan.y 1790

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star, & the Apparent Altitudes of their Centers.

George Margetts inv.t et del.

Publish'd as the Act directs Jan. 1. 1790.

| | D | M | S | | D | M | S |
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| Moons app: Alt: | | | | 1st Arc: | — | | |
| Suns app: Alt: | | | | 2nd Arc: | — | | |
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| App: Distance | | | | diff: for 1 Deg: | — | | |
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| Stars app: Alt: | | | | 2nd Arc: | — | | |
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| Stars Alt: | | | | 2nd Arc: | — | | |
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| Diff: — | | | | Time at Greenw.h: | | | |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: | | | |

| | D | M | S | | D | M | S |
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| Moons Alt: | | | | 1st Arc: | — | | |
| Suns Alt: | | | | 2nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App Dist: | | | | Diff: for 1 Deg | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| d° at ho: | | | | Corr: | — | | |
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| Diff: — | | | | Time at Green.h: | | | |
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| Moons Alt: | | | | 1st Arc: | — | | |
| Stars Alt: | | | | 2nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
| App: Dist: | | | | Diff: for 1 Deg: | — | | |
| True Dist: | | | | Diff: for ′ ″ | — | | |
| d° at ho | | | | Corr: | — | | |
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| Diff: — | | | | Time at Green.h: | | | |
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| Longitude | | | | Diff: — | | | |

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| Moons Alt: | | | | 1st Arc: | — | | |
| Suns Alt: | | | | 2nd Arc: | — | | |
| Hor: Par: | | | | Total | — | | |
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| True Dist: | | | | Diff: for ′ ″ | — | | |
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| Moons Alt: | | | | 1st Arc: | — | | |
| Stars Alt: | | | | 2nd Arc: | — | | |
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| Diff — | | | | Time at Greenw.h: | | | |
| Diff: in 3 ho: | | | | Time at Ship | | | |
| Longitude | | | | Diff: | | | |

89

George Heywood inv.et del.

91

Published as the Act directs 1st Feb.y 1790.

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS,

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts invt et del.

Published as the Act directs Jan 1. 1790.

| | D | M | S |
|---|---|---|---|
| Moons app. Alt. | | | |
| Suns app. Alt. | | | |
| Moons Hor: Par: | | | |
| app. Distance | | | |
| true Distance | | | |
| d°at Hours | | | |
| difference — | | | |
| d° in 3 Hours | | | |
| Longitude | | | |

| | D | M | S |
|---|---|---|---|
| 1st Arc. | — | | |
| 2nd d° | — | | |
| Total | — | | |
| diff for 1 Deg: | — | | |
| diff for ' " | — | | |
| Correction | — | | |
| | H | M | S |
| Time at Greenwh. | | | |
| Time at Ship | | | |
| Difference — | | | |

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| Moons app. Alt. | | | |
| Stars app. Alt. | | | |
| Moons Hor: Par: | | | |
| app Distance | | | |
| true Distance | | | |
| d°at Hours | | | |
| difference — | | | |
| d° in 3 Hours | | | |
| Longitude | | | |

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| 2nd Arc. | — | | |
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| Time at Greenwh. | | | |
| Time at Ship | | | |
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| Moons app. Alt. | | | |
| Suns app. Alt. | | | |
| Moons Hor: Par: | | | |
| app. Distance | | | |
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| Time at Greenwh. | | | |
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| Moons Alt. | | | |
| Stars Alt. | | | |
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| 2nd Arc. | — | | |
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| Time at Greenwh. | | | |
| Time at Ship | | | |
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| Suns Alt. | | | |
| Hor: Par: | | | |
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| 2nd Arc. | — | | |
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| Diff. in 3 ho. | | | |
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| Stars Alt. | | | |
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| App. Dist. | | | |
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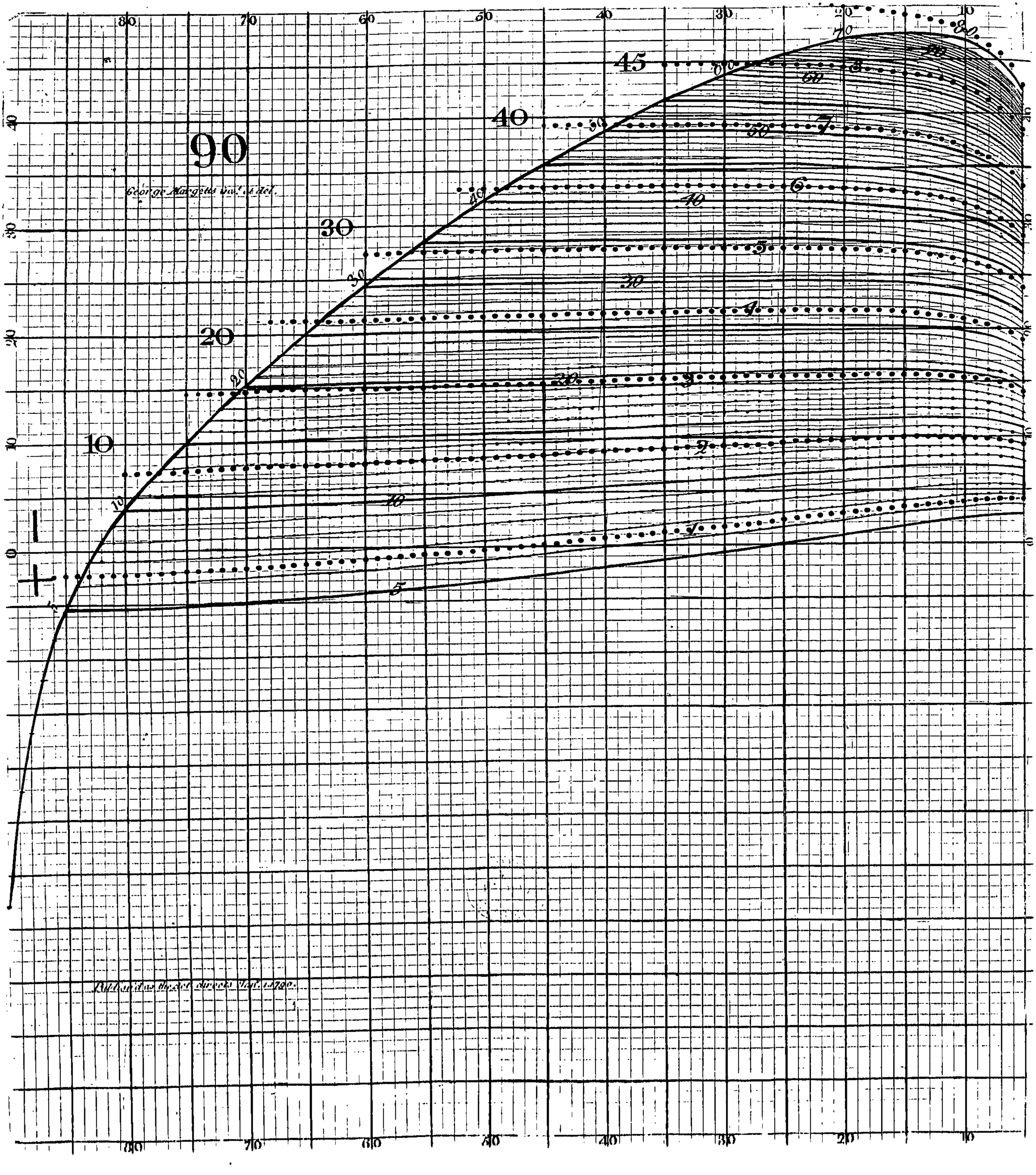
90
George Margetts Sculpt. et del.
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9
Published as the Act directs 1st. Jan. 1790.

# A TABLE for finding the LONGITUDE by LUNAR OBSERVATIONS.

## Having the Apparent Distance of the Moon from the Center of the Sun or a fixed Star; & the Apparent Altitudes of their Centers.

George Margetts inv.t et del.

Published as the Act directs Jan.y 1.st 1790.

| | D | M | S |
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| Moons app.t Alt.e | | | |
| Suns app.t Alt.e | | | |
| Moons Hor: Par: | | | |
| app.t Distance | | | |
| true Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
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| Time at Ship | | | |
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| Moons app.t Alt.e | | | |
| Stars app.t Alt.e | | | |
| Moons Hor: Par: | | | |
| app.t Distance | | | |
| true Distance | | | |
| d.o at Hours | | | |
| difference — | | | |
| d.o in 3 Hours | | | |
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| 2.nd Arc. | — | | |
| Total | — | | |
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| Corr.n | — | | |
| Time at Greenw.h | H | M | S |
| Time at Ship | | | |
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