ΑΤΛΑΣ ΟΥΡΑΝΙΟΣ,

The COELESTIAL ATLAS;

OR, A NEW

EPHEMERIS

For the YEAR of our LORD 1775.

Being the Third after

BISSEXTILE, or LEAP-YEAR.

Wherein are contained

The Heliocentrick and Geocentrick Places of the Planets, the ECLIPSES of the Luminaries, and other remarkable PHÆNOMENA that will happen this Year.

Carefully computed

From the genuine TABLES of Dr. EDMUND HALLEY, late Regius Professor of ASTRONOMY, and SAVILIAN Professor of GEOMETRY in the University of OXFORD.

ALSO

A Compleat ALMANACK, containing the FEASTS and FASTS of the Church of ENGLAND; the Times of the LUNATIONS; the Rising and Setting of the Sun, Moon, and Planets, &c.

Adapted to the

Meridian and Latitude of the ancient and honourable CITY of LONDON.

To which are added,

Several useful TABLES: As, a TABLE of the Sun's Declination; a TABLE by which the Times of the Sun's Rising and Setting may be known by Inspection, on every Day in the Year, and in any Part of GREAT-BRITAIN or IRELAND; a TIDE-TABLE, and a very correct one of the Eclipses of JUPITER's first Satelles; and, lastly, an exact TABLE of the Rising, Southing, and Setting of Thirty of the most remarkable fixed Stars: Taken from Mr. FLAMSTED's Catalogue.

By ROBERT WHITE,

Teacher of the Mathematicks.

Οι ὐρανοι διηγουνται δοξαν Θεου.

The TWENTY-SIXTH IMPRESSION.

LONDON:

Printed by R. HETT, for the Company of STATIONERS.

[Price NINE-PENCE stitched.]

Chronological Notes for the Year 1775.

Golden Number	9	Septuageſima Sunday	Feb. 12
Cycle of the Sun	20	Shrove Sunday	Feb. 26
The Epact	28	Eaſter Day	April 16
Dominical Letter	A	Whitſunday	June 4
Number of Direction	26	Trinity Sunday	June 11
Roman Indiction	8	Advent Sunday	Dec. 3

Aſtronomical Characters explained.

♈ Aries	♋ Cancer	♎ Libra	♑ Capricorn
♉ Taurus	♌ Leo	♏ Scorpio	♒ Aquarius
♊ Gemini	♍ Virgo	♐ Sagitary	♓ Piſces

♄ Saturn	☉ Sol (the Sun)	☽ Luna (the Moon)	⊖ Tellus,
♃ Jupiter	♀ Venus	☊ Moon's N. Node	Terra (or
♂ Mars	☿ Mercury	☋ her S. Node	the Earth)

☌ Conjunction when Planets are in the ſame Sign, Deg. Min. &c.

✶ Sextile when 2 Signs diſt.	△ Trine when 4 Signs diſt.
□ Quartile when 3 Signs diſt.	☍ Oppoſition when 6 Signs diſt.

Of the Four Quarters of the Year 1775.

THE Spring Quarter begins on the 20th Day of March, at 33 Minutes paſt 6 at Night, apparent Time.
The Summer Quarter begins June 21ſt, 50 Minutes paſt 4 in the Afternoon.
The Autumnal Quarter begins Sept. 23, 18 Minutes paſt 6 in the Morning.
The Winter Quarter begins December 21ſt, 33 Minutes paſt 10 at Night.

THE beautiful Planet Venus will be an Evening Star from the 6th Day of January until the 24th Day of October; at which Time ſhe becomes a Morning Star, and ſo continues to the Year's End.

Jupiter will be an Evening Star until the 19th Day of May, and after that Time he will be a Morning Star, until the 8th Day of December; at which Time he becomes again an Evening Star, and ſo continues to the Year's End.

A TABLE of the Longitudes, Latitudes, and Magnitudes, of the moſt remarkable FIXED STARS that the MOON can Eclipſe, or make a near Appulſe unto; taken from Mr. FLAMSTED'S HISTORIA COELESTIS, and rectified to the Beginning of the Year 1760.

Conſtellations.	Bay. Ch.	Longitude.	Latitude.	Magni.	Conſtellations.	Bay. Ch.	Longitude.	Latitude.	Magni.
		° ′ ″	° ′ ″				° ′ ″	° ′ ″	
♓	δ	♈ 10 47 37	2 9 44 B.	4	♍	ο	♎ 0 0 37	5 0 22 B.	4·3
	ε	14 10 31	1 4 7 B.	4		η	1 29 12	1 22 1 B.	3
	ζ	16 30 33	0 13 25 A.	4		γ	6 50 31	2 50 53 B.	3
	η	23 27 40	5 21 7 B.	4		θ	14 52 43	1 45 29 B.	4
♈	δ	♉ 17 28 38	1 47 34 B.	4	Spica	α	20 29 41	2 1 59 A.	1
♉	π	26 38 28	4 0 37 B.	3		χ	♍ 1 9 0	2 55 40 B.	4
	γ	♊ 2 25 54	5 46 22 A.	3	♎	α	11 45 0	0 22 51 B.	2
	ε	5 5 31	2 35 58 A.	3·4		γ	21 47 13	4 25 27 B.	3·4
Ald.	α	6 25 20	5 29 49 A.	1		η	24 0 58	4 2 52 B.	4
	ι	13 25 56	1 14 34 A.	4		θ	26 31 24	3 30 4 B.	4
	β	19 12 16	5 21 34 B.	2			27 8 3	0 7 50 B.	4
	ζ	21 25 48	2 14 21 A.	3	♏	δ	29 14 10	1 56 31 A.	3
♊	μ	♋ 1 56 30	0 51 22 A.	3		π	29 35 45	5 25 46 A.	3
	ν	3 26 40	3 6 3 A.	4		β	29 51 16	1 3 9 B.	2
	γ	5 44 38	6 47 19 A.	2·3		ν	♐ 1 18 31	1 40 50 B.	4
	ε	6 34 57	2 1 30 B.	3	Cor.	α	6 24 24	4 31 26 A.	1
	ξ	11 37 51	2 5 27 A.	3·4		τ	8 6 16	6 4 23 A.	4
	δ	15 9 36	0 13 7 A.	3	♐	γ	27 54 7	6 55 51 A.	3
	β	19 54 29	6 39 27 B.	2		δ	♑ 1 12 32	6 25 21 A.	3
♋	γ	♌ 4 11 20	3 9 41 B.	4		λ	2 58 15	2 4 1 A.	4
	δ	5 22 0	0 3 46 B.	4		σ	9 1 22	3 23 32 A.	4·3
♌	ξ	18 18 4	3 11 22 A.	4		τ	11 28 30	5 1 12 A.	4
	ο	20 54 28	3 46 50 A.	3·4		ο	11 39 0	5 54 38 B.	4
	π	24 32 44	4 50 20 B.	3·4		π	12 55 3	1 28 59 B.	4
	π	25 57 24	3 56 18 A.	4	♑	β	♒ 0 42 17	4 37 27 B.	3
Cor.	α	26 29 40	0 26 38 B.	1		γ	18 26 2	2 31 18 A.	4
♌	ϱ	♍ 3 2 10	0 7 48 B.	4		δ	20 11 34	3 32 19 A.	3
	τ	18 9 22	0 34 4 A.	4	♒	ι	25 22 21	2 3 15 A.	4
♍	β	23 44 34	0 40 47 B.	3			29 54 4	2 43 47 B.	4

I have inſerted this Table to oblige the Curious. If 50 Seconds be added for every ſucceeding, and ſubtracted for every preceding Year, the Longitudes may be found at all Times, and the Latitudes vary not.

A TABLE of the Difference of Meridians in Time, from the ROYAL OBSERVATORY near LONDON, and of the Latitudes of several famous Cities, and other remarkable Places. Taken from Dr. HALLEY's TABLES.

NAMES of PLACES.	Diff. Mer.				Alt. of Pole.			
	h.	m.	ſ.		d.	m.	ſ.	
Alexandria in Egypt — —	2	1	6	A.	31	7	0	N.
Athens in Greece — —	1	35	30	A.	38	5	0	N.
Babylon in Egypt, Grand Cairo	2	5	45	A.	30	2	30	N.
Berlin in Brandenburg — —	0	53	50	A.	52	33	0	N.
Cape of Good Hope in Africa	1	8	0	A.	34	15	0	S.
Cadiz in Spain — —	0	24	28	S.	36	33	30	N.
Carthagena in America —	5	0	46	S.	10	26	0	N.
Copenhagen in Denmark —	0	51	0	A.	55	40	45	N.
Dantzick in Poland — —	1	15	12	A	54	22	0	N.
Iſland of St. Helen — —	0	24	0	S.	15	55	0	S.
Jeruſalem — — —	2	21	20	A.	31	55	0	N.
London at St. Paul's — —	0	0	20	S.	51	30	40	N.
Liſbon in Portugal — —	0	36	50	S.	38	42	30	N.
Moſcow in Ruſſia — —	2	41	20	A.	55	36	0	N.
Naples in Italy — —	0	58	40	A.	40	50	45	N.
Obſervatory at Greenwich —	0	0	0	—	51	28	30	N.
Obſervatory at Paris — —	0	9	20	A.	48	50	10	N.
Oxford — — —	0	5	4	S.	51	45	0	N.
Peterſburg in Ruſſia — —	2	1	20	A.	60	0	0	N.
Pekin in China — — —	7	45	20	A.	39	54	0	N.
Porto Bello in America —	5	19	20	S.	9	33	5	N.
Prague in Bohemia — —	0	59	0	A.	50	4	30	N.
Rome, the Metropolis of Italy	0	50	0	A.	41	54	0	N.
Rochelle in France — —	0	5	4	S.	46	9	43	N.
Smyrna in Turky — —	1	49	19	A.	38	28	7	N.
Teneriff Mountain — —	1	6	12	S.	28	23	27	N.
Terra del Gada in Madagaſcar	2	58	0	A.	19	29	0	S.
Tornea in Lapland — —	1	35	15	A.	65	50	50	N.
Venice in Italy — —	0	48	18	A.	45	25	0	N.
Vienna in Auſtria — —	1	5	30	A.	48	12	48	N.
Upſal in Sweden — — —	1	11	0	A.	59	51	50	N.

A TABLE of the KINGS and QUEENS of ENGLAND since the CONQUEST.

Kings and Queens.	Born A.D.	Began their Reign.	Reigned Y.	M.	D.	Age	Rem. Deaths and Dethroned	Where buried.
Will. Conq.	1027	1066 Oct. 14	20	10	26	60	Burst by Leap.	Caen, Norm
Will. Rufus	1057	1087 Sept. 9	12	10	24	43	Slain acciden-	Winchester
Henry I.	1058	1100 Aug. 2	35	4	0	77	tally.	Reading
Stephen	1105	1135 Dec. 1	18	10	24	49		Feversham
Henry II.	1134	1154 Oct. 25	34	8	12	55		Fonteveraud
Richard I.	1156	1189 July 6	9	9	0	43	Slain with an	Fonteveraud
John	1166	1199 April 6	17	6	13	50	Arrow.	Worcester
Henry III.	1207	1216 Oct. 19	56	0	28	65		Westminster
Edward I.	1239	1272 Nov. 16	34	7	21	67		Westminster
Edward II.	1284	1307 July 7	19	6	13	43		Gloucester
Edward III.	1312	1327 Jan. 20	50	5	1	65		Westminster
Richard II.	1366	1377 June 21	22	3	8	33	Dep. & murd.	Westminster
Henry IV.	1367	1399 Sept. 29	23	5	21	46		Canterbury
Henry V.	1389	1413 Mar. 20	9	5	11	33		Westminster
Henry VI.	1421	1422 Aug. 31	38	6	4	49	Dep. & murd.	Windsor
Edward IV.	1442	1461 Mar. 4	22	1	5	41		Windsor
Edward V.	1471	1483 April 9	0	2	15	12	Murder'd.	Not known
Richard III.	1443	1483 June 22	2	2	0	42	Slain in Battle.	Leicester
Henry VII.	1457	1485 Aug. 22	23	8	0	52		Westminster
Henry VIII.	1492	1509 April 22	37	9	6	55		Windsor
Edward VI.	1537	1547 Jan. 28	6	5	9	15		Westminster
Mary I.	1516	1553 July 6	5	4	11	42	Died of Grief.	Westminster
Elizabeth	1533	1558 Nov. 17	44	4	7	69		Westminster
James I.	1566	1603 Mar. 24	22	6	3	58		Westminster
Charles I.	1600	1625 Mar. 27	23	10	3	48	Murder'd by	Windsor
Charles II.	1630	1649 Jan. 30	36	0	7	54	Villains.	Westminster
James II.	1633	1685 Feb. 6	4	0	7	67	Abdicated.	St. Germain
Mary II.	1662	1689 Feb. 13	5	10	15	32		Westminster
William III.	1650	1689 Feb. 13	13	0	23	52	Kill'd by a Fall	Westminster
Anne	1665	1702 Mar. 8	12	4	24	49	from his Horse.	Westminster
George I.	1660	1714 Aug. 1	12	10	10	67		Hanover
George II.	1683	1727 June 11	33	4	3	77		Westminster
George III.	1738	1760 Oct. 25	Whom God prosper.					

All hail! Great GEORGE, renowned Prince of Might,
Our King by Providence, and lawful Right,
ROME's fatal Foe, and Protestant's Delight:
May Peace and Plenty all your Days remain,
And NESTOR's Years conclude your happy Reign.

A TABLE of the moſt Reverend, Right Reverend, and Reverend, the BISHOPS and DEANS, exerciſing Eccleſiaſtical Juriſdiction, 1775.

Bishops.	Sees.	Date.	Succeeded.	Deans.
H. Dr. F. Cornwallis Arch-Biſhop	Litch.&Cov.	1749	Smallbroke de.	
	Canterb. A.B	1768	Secker deceaſ.	Dr. Moore
H. Dr. R. Drummond Arch-Biſhop	*St. Aſaph*	1748	Liſle tranſl.	
	Saliſbury	1761	Thomas tranſl.	
	York A. B.	1761	Gilbert deceaſ.	Dr. J. Fountayne
Dr. Rich. Terrick	*Peterborough*	1757	Thomas tranſl.	
	London	1764	Oſbaldeſton de.	Rt. Rev. Dr. Thomas Newton
Dr. John Egerton	*St. David's*	1744	Willes tranſl.	
	Durham	1752	Trevor deceaſ.	Dr. Dampier
Dr. John Thomas	*Peterborough*	1747	Clavering dec.	
	Saliſbury	1757	Gilbert tranſl.	
	Wincheſter	1761	Hoadley dec.	Dr. Ogle
Lord J. Beauclerk	Hereford	1746	Egerton deceaſ.	Dr. Wetherell
Dr. Edmund Keene	*Landaff*	1738	Harris deceaſed	
	Chicheſter	1752	Peploe deceaſed	
	Ely	1771	Mawſon dec.	Dr. HughThomas
Dr. James Johnſon	*Glouceſter*	1752	Benſon deceaſ.	
	Worceſter	1759	Maddox deceaſ.	Hon. W. Digby
Sir W. Aſhburnham	Chicheſter	1754	Mawſon tranſl.	Dr. Harward
Dr. John Hume	*Briſtol*	1756	Conybeare dec.	
	Oxford	1758	Secker tr.	
	Saliſbury	1766	Thomas tr.	Dr. Tho. Green
Dr. Philip Yonge	*Briſtol*	1758	Hume tranſlat.	
	Norwich	1761	Hayter tranſl.	Dr. Philip Lloyd
Dr. Will. Warburton	Glouceſter	1759	Johnſon tranſl	Dr. Joſiah Tucker
Dr. John Ewer	*Landaff*	1761	Newcomb tran.	
	Bangor	1768	Egerton tranſ.	Dr. Thom. Lloyd
Dr. John Green	Lincoln	1761	Thomas tran.	Hon. James Yorke
Dr. Thomas Newton	Briſtol	1761	Yonge tranſl.	Dr. Cutts Barton
Hon. Dr. Fred. Keppel	Exeter	1761	Lavington dec.	Dr. Jer. Milles
Dr. Robert Lowth	*St. David's*	1766	Squire deceaſ.	
	Oxford	1766	Hume tranſl.	Dr. W. Markham
Dr. Charles Moſs	*St. David's*	1766	Clagget tranſl.	
	Bath & Wells	1774	Willes deceaſed	Ld. Fr. Seymour
Dr. J. Shipley	St. Aſaph	1769	Newcome dec.	Dr. Will. Herring
Dr. Edmund Law	Carliſle	1769	Lyttelton dec.	Dr. Tho. Wilſon
Dr. S. Barrington	Landaff	1769	Shipley tranſl.	J. Fulham, M.A.
Dr. John Hinchcliffe	Peterborough	1769	Lamb dec.	Dr. Ch. Tarrant
Dr. Will. Markham	Cheſter	1771	Keene tranſlat.	Dr. Will. Smith
Hon. Dr. B. North	Litch. & Cov.	1768	Cornwallis tr.	Dr. J. Addenbrook
Hon. Dr. James Yorke	St. David's	1774	Moſs tranſl.	———, Frec.
Dr. John Thomas	Rocheſter	1774	Pearce dec.	Dr. B. Newcome
	Weſtminſter	1768		Dr. John Thomas
Dr. Richd Richmond	Sodor & Man	1773	Hildeſley dec.	
	Windſor	1765	Rt. Rev.	Dr. Fred. Keppel

The NAMES of the Learned JUDGES of the LAW.

I. The R. H. Henry Lord Apſley, Lord High Chancellor of Great Britain.
Right Honourable Sir Thomas Sewell, Knt. Maſter of the Rolls.

II. In the } R. H. Wm. Lord Mansfield, L. C. J. Sir Richard Aſton, Knt.
K. Bench. } Edward Willes, Eſq; Sir W. H. Aſhurſt, Knt.

III. In the } R. H. Sir William de Grey, Knt. L. C. J. Sir Henry Gould, Knt.
C. Pleas. } Sir William Blackſtone, Knt. Sir George Nares, Knt.

IV. In the } Sir Sidney Stafford Smythe, Knt. L. C. B. George Perrot, Eſq;
Exchequer } Sir James Eyre, Knt. Sir John Burland, Knt.

Edw. Thurloe, Eſq; Att. Gen. Alex. Wedderburn, Eſq; Sol. Gen.

A TABLE of TERMS and their RETURNS.

Hilary Term begins Jan. 23, ends Feb. 13.

Returns or Eſſoign-days.		Exc.	Ret.	Ap.	W. D.
In eight Days of St. Hilary,	Jan. 20	21	22	23	Monday
From the Day of St. Hilary in 15 Days	27	28	29	30	Monday
On the Morrow of the Purif. Bleſſed Mary,	Feb. 3	4	5	6	Monday
In eight Days of the Purif. of Bleſſed Mary,	9	10	11	13	Monday

Eaſter Term begins May 3, ends May 29.

From the Day of Eaſter in 15 Days,	April 30	M. 1	2	3	Wedn.
From the Day of Eaſter in 3 Weeks,	May 7	8	9	10	Wedn.
From the Day of Eaſter in 1 Month,	14	15	16	17	Wedn.
From the Day of Eaſter in 5 Weeks,	21	22	23	24	Wedn.
On the Morrow of the Aſcenſion,	26	27	28	29	Monday

Trinity Term begins June 16, ends July 5.

On the Morrow of the Holy Trinity,	June 12	13	14	16	Friday
In 8 Days of the Holy Trinity,	18	19	20	21	Wedn.
In 15 Days of the Holy Trinity,	25	26	27	28	Wedn
In 3 Weeks of the Holy Trinity,	July 2	3	4	5	Wedn

Michaelmas Term begins Nov. 6, ends Nov. 28.

On the Morrow of All Souls,	Nov. 3	4	5	6	Monday
On the Morrow of St Martin,	12	13	14	15	Wedn.
In eight Days of St. Martin,	18	19	20	21	Tueſday
In 15 Days of St. Martin,	25	26	27	28	Tueſday

N. B. No Sittings in Weſtminſter-Hall on Aſcenſion-day, Midſummer-day, and the 2d of February.

The Exchequer opens eight Days before any Term begins, except Trinity, before which it opens but four Days.

Note, That the firſt and laſt Days of every Term, are the firſt and laſt Days of Appearance.

January hath XXXI Days. White.

The Lunations.

New Moon the 1st Day, 13 Minutes past Midnight.
First Quarter the 8th Day, 8 Minutes past 6 at Night.
Full Moon the 16th Day, 36 Minutes past 7 at Night.
Last Quarter the 24th Day, 6 Minutes past 7 at Night.
New Moon the 31st Day, 47 Minutes past 10 in the Morning.

M D.	Sunday & other remark. Days.	Sun rises.	Sun sets.	Dec. ☉ South.	Dec. ☽ South.	Moon rises.	Moon south.	Clock ref. Sun
A	1 S. aft. Christ.	Circumcision.		23 1	18 57	7M. 1	11M.26	4 6
2		8 4	3 56	22 55	18 28	☽ sets.	0A.26	4 35
3		8 3	3 57	22 50	16 41	6A.14	1 31	5 3
4		8 2	3 58	22 43	13 45	7 32	2 28	5 31
5	Old Christ. Day.	8 1	3 59	22 37	10 0	8 48	3 25	5 58
6	Epiphany.	8 0	4 0	22 30	5 49	10 5	4 17	6 25
7		7 59	4 1	22 22	1 27	11 18	5 6	6 51
A	1 S. aft. Epiph.	Lucian.	4 2	22 14	2N.53	Morn.	5 52	7 17
9	Plow Monday.	7 57	4 3	22 6	6 56	0 27	6 39	7 42
10		7 56	4 4	21 57	10 34	1 35	7 25	8 6
11		7 55	4 5	21 48	13 40	2 39	8 11	8 30
12	O.N.Year'sDay	7 54	4 6	21 38	16 7	3 43	8 57	8 54
13	Cam. Term beg.	Hilary.	4 7	21 28	17 50	4 42	9 44	9 17
14	Oxf. Term beg.	7 52	4 8	21 17	18 46	5 37	10 32	9 39
A	2 S. aft. Epiph.	7 51	4 9	21 6	18 53	6 27	11 20	10 0
16		7 50	4 10	20 55	18 10	☽ rises.	Morn.	10 21
17	O. Twelfth Day	7 49	4 11	20 43	16 38	5A.14	0 6	10 41
18	O.Char.B.D. k.	7 48	4 12	20 31	14 25	6 13	0 53	11 1
19		7 46	4 14	20 19	11 3	7 16	1 37	11 20
20	Fabian B. & M.	7 45	4 15	20 6	8 12	8 20	2 20	11 38
21	Agnes V. & M.	7 43	4 17	19 52	4 26	9 27	3 4	11 55
A	3 S. aft. Epiph.	7 42	4 18	19 39	0 25	10 33	3 50	12 11
23	Term begins.	7 40	4 20	19 25	3 S.37	11 40	4 36	12 27
24		7 39	4 21	19 10	7 38	Morn.	5 21	12 42
25	Conv. St. Paul	7 37	4 23	18 56	11 24	0 52	6 9	12 56
26		7 35	4 25	18 41	14 40	2 3	7 1	13 9
27	Fr.Aug.Fred. b.	7 34	4 26	18 25	17 10	3 18	7 56	13 21
28		7 32	4 28	18 9	18 36	4 26	8 57	13 33
A	4 S. aft. Epiph.	7 30	4 30	17 53	18 46	5 32	9 56	13 44
30	K.Charl.I. Mart	7 29	4 31	17 37	17 40	6 28	10 59	13 54
31		7 27	4 33	17 20	15 18	☽ sets	0A. 0	14 3

Day	Day increas.	Length of Day.	Helioc. Place. ♄	Helioc. Place. ♃	Helioc. Place. ♂	Helioc. Place. ☉	Helioc Place. ♀	Helioc. Place. ☿	Saturn rises.
1	0 8	7 52	2♎45	16♉23	11♌45	11♑ 1	7♑42	24♎40	11A.45
7	0 18	8 2	2 57	16 55	14 24	17 8	17 11	13♍ 9	11 20
13	0 30	8 14	3 10	17 27	17 2	23 15	26 40	0♐13	10 55
19	0 44	8 28	3 22	18 0	19 40	29 21	6♒ 9	16 43	10 30
25	1 2	8 46	3 34	18 32	22 18	5♌27	15 39	3♑25	10 5

January, 1775.

Days	Day lig. begins.	Day lig. ends.	Durat. Twilig	Node ☽ in ♍	Lat. ♄ North.	Lat. ♃ South.	Lat. ♂ North	Lat. ♀ South.	Lat. ☿ North.
1	5 59	6 1	2 10	6 44	2 24	1 10	3 11	0 34	0 56
7	5 56	6 4	2 9	6 23	2 26	1 8	3 23	0 46	0 7
13	5 52	6 8	2 7	6 3	2 27	1 6	3 35	0 58	0 S.27
19	5 46	6 14	2 5	5 43	2 29	1 4	3 46	1 8	1 14
25	5 30	6 21	2 3	5 23	2 30	1 2	3 57	1 16	1 42

Days	☉ d.	☉ m.	☉ s.	☽	♑	Lat. ☽	♄	♎	♃	♉	♂	♍	♀	♑	☿	♐
A	11	0	49	3	42	4N.28	8	41	6	6	13	35	9	36	20	2
2	12	1	58	19	1	3 41	8	43	6	6	13	44	10	52	21	21
3	13	3	7	4♒	15	2 37	8	44	6	7	13	52	12	7	22	42
4	14	4	16	19	14	1 23	8	45	6	8	14	0	13	23	24	3
5	15	5	26	3♓	51	0 6	8	47	6	9	14	7	14	38	25	25
6	16	6	35	18	3	1S.11	8	48	6	10	14	13	15	54	26	48
7	17	7	44	1♈	44	2 20	8	49	6	11	14	19	17	9	28	13
A	18	8	53	15	3	3 20	8	50	6	12	14	24	18	25	29	38
9	19	10	2	27	59	4 8	8	51	6	14	14	28	19	40	1♑	4
10	20	11	10	10♉	35	4 42	8	52	6	16	14	32	20	56	2	30
11	21	12	18	22	57	5 3	8	53	6	19	14	35	22	11	3	57
12	22	13	25	5♊	7	5 9	8	53	6	21	14	37	23	27	5	25
13	23	14	31	17	8	5 2	8	54	6	24	14	39	24	42	6	54
14	24	15	38	29	5	4 42	8	54	6	27	14	40	25	58	8	23
A	25	16	43	10♋	57	4 10	8	54	6	30	14R	39	27	13	9	53
16	26	17	48	22	47	3 26	8	55	6	33	14	38	28	28	11	24
17	27	18	53	4♌	37	2 34	8	55	6	37	14	37	29	44	12	55
18	28	19	56	16	29	1 35	8R	55	6	40	14	35	0♒	59	14	27
19	29	20	58	28	25	0 31	8	55	6	44	14	32	2	14	15	59
20	♒	22	1	10♍	26	0N.34	8	55	6	48	14	28	3	30	17	32
21	1	23	3	22	37	1 40	8	54	6	52	14	23	4	45	19	6
A	2	24	3	5♎	0	2 41	8	54	6	57	14	18	6	1	20	40
23	3	25	3	17	40	3 36	8	54	7	1	14	12	7	16	22	15
24	4	26	1	6♏	40	4 22	8	53	7	6	14	5	8	31	23	50
25	5	26	58	14	3	4 55	8	53	7	11	13	58	9	47	25	26
26	6	27	55	27	53	5 12	8	52	7	16	13	50	11	2	27	2
27	7	28	51	12♐	8	5 11	8	51	7	21	13	41	12	17	28	39
28	8	29	46	26	48	4 50	8	50	7	27	13	31	13	32	0♒	17
A	9	30	41	11♑	47	4 9	8	49	7	32	13	20	14	48	1	56
30	10	31	34	26	57	3 10	8	47	7	38	13	8	16	3	3	35
31	11	32	25	12♒	8	1 57	8	45	7	44	12	55	17	18	5	15

Days	Jupiter sets.	Mars rises.	Venus rises.	Mercu. rises.	Dec. ♄ South.	Dec. ♃ North.	Dec. ♂ North.	Dec. ♀ South	Dec. ☿ South.
1	2M41	9A.21	8M 1	6M25	1 16	12 29	9 24	23 42	22 11
7	2 17	8 58	sets.	6 43	1 16	12 32	9 18	23 0	23 21
13	1 52	8 33	4A.10	6 58	1 17	12 38	9 21	22 16	23 55
19	1 27	8 8	4 25	7 9	1 15	12 46	9 34	20 48	23 45
25	1 5	7 39	4 41	7 21	1 13	12 57	9 57	19 5	22 46

February hath XXVIII Days. White.

The Lunations.

First Quarter the 7th Day, 58 Minutes after 9 in the Morning.
Full Moon the 15th Day, 45 Minutes past 2 in the Afternoon.
Last Quarter the 23d Day, 3 Minutes past 6 in the Morning.

M D.	Sundays & other remark. Days.	Sun rises	Sun sets.	Dec. ☉ South.	Dec. ☽ South.	Moon sets.	Moon South.	Clock bef. Sun
1		7 26	4 34	17 3	11 53	6 A. 11	1 A. 0	14 11
2	Purif. B. V. Mar.	7 24	4 36	16 46	7 46	7 31	1 54	14 13
3	Blase.	7 22	4 38	16 28	3 18	8 47	2 47	14 24
4		7 20	4 40	16 11	1 N. 14	10 2	3 38	14 29
A	5 S. aft. Epiph.	Agatha	4 42	15 52	5 29	11 14	4 28	14 34
6		7 17	4 44	15 34	9 22	Morn.	5 15	14 38
7		7 15	4 46	15 15	12 43	0 22	6 1	14 41
8		7 13	4 47	14 46	15 23	1 27	6 47	14 43
9		7 11	4 49	14 37	17 22	2 28	7 35	14 45
10		7 10	4 51	14 18	18 31	3 25	8 22	14 46
11		7 8	4 52	13 58	18 52	4 17	9 11	14 46
A	Septuag. Sunday	7 7	4 54	13 38	18 23	5 2	9 58	14 46
13	Term ends.	Old Candlem. D.		13 18	17 6	5 44	10 45	14 45
14	Valentine B. M.	7 3	4 58	12 58	15 4	6 19	11 30	14 43
15		7 1	5 0	12 37	12 22	☽ rises.	Morn.	14 40
16		6 59	5 2	12 17	9 7	6 A. 9	0 16	14 37
17		6 57	5 4	11 56	5 26	7 15	1 0	14 33
18		6 55	5 6	11 35	1 29	8 23	1 45	14 28
A	Sexages. Sunday.	6 53	5 8	11 13	2 S. 36	9 31	2 31	14 22
20		6 51	5 10	10 52	6 38	10 39	3 18	14 15
21		6 49	5 12	10 30	10 24	11 50	4 5	14 8
22		6 47	5 14	10 8	13 45	Morn.	4 54	14 0
23		6 45	5 16	9 46	16 26	1 1	5 47	13 52
24	St. Matthias.	Pr. Adelph. Fred. born.		18 11	2 11	6 43	13 43	
25		6 41	5 20	9 2	18 50	3 16	7 42	13 33
A	Shrove Sunday.	6 39	5 22	8 40	18 17	4 14	8 41	13 23
27		6 38	5 23	8 17	16 28	5 3	9 41	13 12
28	Shrove Tuesday.	6 36	5 25	7 54	13 32	5 49	10 41	13 1

Days	Day increas.	Length of Day.	Helioc. Plac. ♄	Helioc. Plac. ♃	Helioc. Plac. ♂	Helioc. Plac. ☉	Helioc. Plac. ♀	Helioc. Plac. ☿	Saturn rises.
1	1 24	9 8	3♎48	19♉10	25♌22	12♌32	16♒43	24♑10	9 A. 36
7	1 42	9 31	4 0	19 42	28 0	18 38	6♓13	14♒ 6	9 11
13	2 7	9 51	4 12	20 15	0♍37	24 42	15 44	7♓10	8 46
19	2 31	10 15	4 24	20 47	3 14	0♍45	24 16	4♈40	8 20
25	2 55	10 39	4 36	21 19	5 52	6 47	4♈49	7♉29	7 55

February, 1775.

Days	Day lig. begins.	Day lig. ends.	Durat. Twilig.	Node ☽ in ♏	Lat. ♄ North.	Lat. ♅ South.	Lat. ♂ North.	Lat. ♀ South.	Lat. ☿ South.
1	5 30	6 30	2 0	4 59	2 32	1 0	4 9	1 23	2 2
7	5 21	6 39	1 59	4 39	2 34	0 59	4 16	1 27	2 4
13	5 12	6 48	1 57	4 19	2 35	0 57	4 21	1 26	1 50
19	5 0	7 0	1 57	4 0	2 37	0 56	4 22	1 25	1 14
25	4 50	7 10	1 56	3 40	2 38	0 54	4 20	1 23	0 17

Days	☉ d	☉ m.	☉ s.	☽	Lat. ☽	♄ ℞	♄	♅	♂ ℞	♂	♀	☿	☿
1	12	33	16	27 12	0N.37	8	43	7	50	12	41	18 33	6 56
2	13	34	5	11♐58	0S 45	8	42	7	57	12	27	19 49	8 38
3	14	34	53	26 21	2 1	8	40	8	3	12	12	21 4	10 21
4	15	35	40	10♈19	3 8	8	38	8	9	11	57	22 19	12 4
A	16	36	26	23 45	4 2	8	36	8	16	11	41	23 35	13 48
6	17	37	10	6♉49	4 42	8	34	8	23	11	24	24 50	15 33
7	18	37	54	19 29	5 7	8	32	8	30	11	6	26 5	17 18
8	19	38	35	1♊52	5 17	8	30	8	38	10	48	27 20	19 4
9	20	39	14	13 59	5 12	8	27	8	45	10	29	28 35	20 51
10	21	39	54	25 57	4 54	8	25	8	53	10	10	29 50	22 39
11	22	40	32	7♋40	4 23	8	22	9	0	9	50	1♐ 5	24 28
A	23	41	8	19 38	3 41	8	20	9	8	9	29	2 20	26 18
13	24	41	42	1♌28	2 50	8	17	9	16	9	8	3 35	28 9
14	25	42	15	13 21	1 51	8	15	9	24	8	46	4 50	0♑ 0
15	26	42	46	25 20	0 47	8	12	9	32	8	24	6 5	1 52
16	27	43	10	7♍26	0N.20	8	9	9	41	8	1	7 20	3 44
17	28	43	44	19 40	1 27	8	6	9	49	7	39	8 35	5 36
18	29	44	11	2♎ 4	2 31	8	3	9	58	7	17	9 50	7 27
A	♓	44	36	14 41	3 28	8	0	10	7	6	54	11 5	9 19
20	1	44	59	27 32	4 17	7	56	10	16	6	31	12 20	11 11
21	2	45	20	10♍39	4 54	7	53	10	25	6	7	13 35	13 3
22	3	45	41	24 4	5 13	7	49	10	35	5	43	14 50	14 54
23	4	45	59	7♐48	5 17	7	46	10	44	5	20	16 5	16 44
24	5	46	16	21 50	5 2	7	42	10	53	4	56	17 20	18 34
25	6	46	31	6♑11	4 29	7	39	11	3	4	32	18 34	20 23
A	7	46	43	20 46	3 37	7	35	11	13	4	8	19 49	22 9
27	8	46	54	5♒32	2 31	7	32	11	23	3	45	21 4	23 52
28	9	47	3	20 23	1 14	7	28	11	33	3	21	22 19	25 32

Days	Jupiter sets.	Mars rises.	Venus sets.	Mercu. rises.	Dec. ♄ South.	Dec. ♅ North.	Dec. ♂ North.	Dec. ♀ South.	Dec. ☿ South.
1	0M41	7 A. 3	5 A. 3	7M26	1 8	13 11	10 38	16 37	20 32
7	0 21	6 27	5 23	7 27	1 2	13 26	11 22	14 13	17 39
13	0 1	5 51	5 42	sets.	0 55	13 42	12 11	11 33	13 52
19	11A.37	5 16	6 2	5A.48	0 46	13 59	13 3	8 44	9 14
25	11 21	sets.	6 24	6 37	0 37	14 18	13 55	5 48	4 4

The LUNATIONS.

New Moon the 1st Day, 38 Minutes past 9 at Night.
First Quarter the 9th Day, 13 Minutes after 4 in the Morning.
Full Moon the 17th Day, 51 Minutes past 7 in the Morning.
Last Quarter the 24th Day, 7 Minutes past 2 in the Afternoon.
New Moon the 31st Day, 45 Minutes after 8 in the Morning.

M D.	Sundays & other remark. Days.	Suns rises.	Sun sets.	Dec. ☉ South.	Dec. ☽ South.	Moon sets.	Moon South.	Clock bef. Sun
1	Ash Wednesday	David. 5 27	7 32	9 44	☽ sets.	11M39	12 49	
2	Chad. B. Litchf.	6 32	5 29	7 9	5 21	6A.22	0A.34	12 37
3		6 30	5 31	6 46	0 48	7 39	1 26	12 24
4		6 28	5 33	6 23	3N.43	8 55	2 16	12 11
A	1 Sund. in Lent.	6 26	5 35	6 0	7 55	10 7	3 6	11 57
6		6 24	5 37	5 37	11 35	11 16	3 56	11 43
7		6 22	5 39	5 13	14 34	Morn.	4 45	11 28
8	Ember Week.	6 20	5 41	4 50	18 48	0 20	5 33	11 13
9		6 18	5 43	4 26	18 14	1 21	6 21	10 57
10		6 16	5 45	4 3	18 51	2 15	7 10	10 41
11		6 14	5 47	3 39	18 36	3 3	7 58	10 25
A	2 Sund. in Lent.	Gregor. 5 49	3 16	17 32	3 46	8 44	10 9	
13		6 10	5 51	2 52	15 45	4 24	9 31	9 52
14		6 8	5 53	2 29	13 13	4 55	10 17	9 35
15		6 6	5 55	2 5	10 6	5 24	11 2	9 18
16		6 4	5 57	1 41	6 30	5 51	11 47	9 0
17	St. Patrick	6 2	5 59	1 18	2 34	☽ rises.	Morn.	8 42
18	Edw. K. W. Sax.	6 0	6 1	0 54	1S.34	7A.27	0 33	8 24
A	Sund. in Lent.	5 58	6 3	0 30	5 42	8 38	1 20	8 6
20		5 56	6 5	0 7	9 38	9 48	2 8	7 47
21	Benedict.	5 54	6 7	0N.17	13 7	11 0	2 58	7 29
22		5 52	6 9	0 41	15 58	Morn.	3 50	7 11
23		5 50	6 11	1 4	17 55	♎ 9	4 45	6 52
24		5 48	6 13	1 28	18 52	1 16	5 42	6 33
25	Lady Day.	5 46	6 15	1 52	18 38	2 17	6 40	6 15
A	Midlent Sund.	5 44	6 17	2 15	17 14	3 9	7 39	5 56
27		5 43	6 18	2 39	14 44	3 52	8 37	5 37
28		5 41	6 20	3 2	11 17	4 30	9 33	5 18
29		5 39	6 22	3 25	7 10	5 3	10 27	5 0
30		5 37	6 24	3 49	2 41	5 31	11 21	4 41
31		5 35	6 26	4 12	1N.53	☽ sets.	0A.13	4 23

Days	Day increas.	Length of Day.	Helioc. Plac. ♄	Helioc Plac. ♃	Helioc. Plac. ♂	Helioc. Plac. ☉	Helioc. Plac. ♀	Helioc. Plac. ☿	Saturn rises.
1	3 9	10 53	4♎44	21♉41	7♏37	10♏47	11♈11	1♊53	7A.40
7	3 33	11 17	4 56	22 13	10 14	16 47	20 45	9♎34	7 16
13	3 57	11 41	5 8	22 45	12 52	22 46	0♉21	14♌14	6 51
19	4 21	12 5	5 20	23 18	15 30	28 44	9 57	13♏25	6 25
25	4 45	12 29	5 32	23 50	18 8	4♎40	19 34	7♎31	6 0

March, 1775.

Days	Day lig. begins.	Day lig. ends.	Durat. Twilig.	Node ☽ in ♍	Lat. ♄ North.	Lat. ♃ South.	Lat. ♂ North.	Lat. ♀ South.	Lat. ☿ North.
1	4 43	7 17	1 55	3 27	2 39	0 53	4 16	1 20	0 33
7	4 30	7 30	1 56	3 7	2 40	0 52	4 9	1 12	1 55
13	4 17	7 43	1 57	2 48	2 40	0 51	3 58	1 3	3 4
19	4 5	7 56	1 58	2 28	2 41	0 50	3 45	0 52	3 24
25	3 50	8 10	2 0	2 9	2 42	0 49	3 31	0 39	2 56

Days	☉ d.	☉ m.	☉ s.	☽	♓	Lat. ☽	♄ ♎ R	♃	♉	♂ ♍ R	♀	♓	☿	♓
1	10	47	10	5	11	0 S. 7	7	24	11	43	2	57	23	34	27	8
2	11	47	17	19	50	1 28	7	20	11	53	2	34	24	48	28	40
3	12	47	21	4	♈ 11	2 41	7	16	12	3	2	12	26	3	0	♈ 8
4	13	47	24	18	11	3 42	7	11	12	14	1	50	27	18	1	30
A	14	47	23	1	♉ 46	4 29	7	7	12	24	1	27	28	32	2	46
6	15	47	20	14	56	5 0	7	3	12	35	1	5	29	47	3	56
7	16	47	17	27	43	5 15	6	59	12	46	0	43	1	♈ 1	5	0
8	17	47	10	10	♊ 9	5 15	6	55	12	56	0	22	2	16	5	56
9	18	47	2	22	19	5 0	6	50	13	7	0	2	3	30	6	46
10	19	46	53	4	♋ 17	4 33	6	46	13	18	29	♌ 42	4	45	7	28
11	20	46	42	16	8	3 54	6	42	13	29	29	23	5	59	8	0
A	21	46	28	27	57	3 6	6	37	13	40	29	4	7	14	8	22
13	22	46	13	9	♌ 48	2 0	6	33	13	52	28	46	8	28	8	36
14	23	45	55	21	45	1 6	6	28	14	3	28	29	9	43	8	43
15	24	45	35	3	♍ 51	0 0	6	24	14	15	28	13	10	57	8	R 42
16	25	45	14	16	9	1 N. 8	6	19	14	28	27	57	12	12	8	33
17	26	44	49	28	40	2 13	6	15	14	38	27	42	13	26	8	16
18	27	44	23	11	♎ 24	3 13	6	10	14	50	27	27	14	41	7	51
A	28	43	56	24	23	4 3	6	6	15	2	27	12	15	55	7	19
20	29	43	26	7	♏ 35	4 42	6	1	15	13	26	58	17	10	6	42
21	♈	42	54	21	0	5 6	5	57	15	25	26	45	18	24	6	0
22	1	42	20	4	♐ 38	5 14	5	52	15	37	26	33	19	38	5	15
23	2	41	45	18	28	5 3	5	47	15	49	26	22	20	52	4	27
24	3	41	7	2	♑ 28	4 34	5	42	16	2	26	12	22	6	3	37
25	4	40	28	16	37	3 49	5	38	16	14	26	4	23	19	2	46
A	5	39	45	0	♒ 53	2 49	5	33	16	27	25	56	24	33	1	54
27	6	39	0	15	14	1 38	5	29	16	39	25	49	25	47	1	4
28	7	38	14	29	38	0 21	5	24	16	52	25	42	27	1	0	16
29	8	37	26	14	♓ 0	0 S. 57	5	19	17	4	25	36	28	14	29	♓ 30
30	9	36	36	28	16	2 11	5	15	17	17	25	30	29	28	28	48
31	10	35	45	12	♈ 20	3 16	5	10	17	29	25	25	0	♉ 42	28	11

Days	Jupiter sets.	Mars rises.	Venus sets.	Mercu. sets.	Dec. ♄ South.	Dec. ♃ North.	Dec. ♂ North.	Dec. ♀ South.	Dec. ☿ South.
1	11 A. 8	7 M 0	6 A. 37	7 A. 2	0 30	14 31	14 25	3 47	0 38
7	10 52	6 33	6 58	7 27	0 20	14 51	15 6	0 42	3 N. 45
13	10 37	6 7	7 18	7 29	0 9	15 12	15 37	2 N. 24	6 14
19	10 22	5 38	7 38	6 57	0 N. 2	15 34	15 58	5 29	6 2
25	10 ☽	5 13	7 59	rises.	0 13	15 56	16 ☽	8 28	3 47

The Lunations.

First Quarter the 7th Day, 32 Minutes past 11 at Night.
Full Moon the 15th Day, 47 Minutes after 9 at Night.
Last Quarter the 22d Day, 18 Minutes past 8 at Night.
New Moon the 29th Day, 18 Minutes past 8 at Night.

M D.	Sunday & other remark. Days.	Sun rises.	Sun sets.	Dec. ☉ North.	Dec. ☽ North.	Moon sets.	Moon South.	Clock bef. Sun
1		5 33	6 28	4 38	6 16	7 A. 52	1 A. 3	4 4
A	5 Sun. in Lent.	5 31	6 30	4 58	10 14	8 58	1 53	3 46
3	Richard.	5 29	6 32	5 21	13 34	10 9	2 43	3 28
4		5 27	6 34	5 44	16 11	11 16	3 32	3 9
5	Old Lady Day.	5 25	6 36	6 7	17 58	Morn.	4 21	2 51
6		5 23	6 38	6 30	8 52	0 16	5 10	2 33
7	Camb. T. ends.	5 21	6 40	6 52	18 55	1 7	5 59	2 16
8	Oxf. Term ends.	5 19	6 42	7 15	18 7	1 52	6 47	1 59
A	Palm Sunday.	5 17	6 44	7 37	16 32	2 32	7 34	1 41
10		5 15	6 46	7 59	14 14	3 5	8 19	1 24
11		5 13	6 48	8 21	11 18	3 34	9 3	1 7
12		5 11	6 50	8 43	7 50	4 1	9 49	0 50
13	Maundy Thur.	5 10	6 51	9 5	3 57	4 25	10 35	0 34
14	Good Friday.	5 8	6 53	9 27	0 S. 11	4 49	11 22	0 19
15		5 6	6 55	9 48	4 26	☽ rises	Morn.	0 4
A	Easter Day.	5 4	6 57	10 9	8 33	7 A. 45	0 10	0 af. 11
17	Easter Monday.	5 2	6 59	10 30	12 18	8 57	1 1	0 26
18	Easter Tuesday.	5 0	7 1	10 51	15 26	10 9	1 54	0 40
19	Alphege.	4 58	7 3	11 12	17 42	11 19	2 48	0 54
20		4 56	7 4	11 33	18 56	Morn	3 46	1 8
21		4 54	7 7	11 53	18 59	0 22	4 44	1 22
22		4 52	7 9	12 14	17 51	1 15	5 41	1 35
A	Low Sunday.	St. George.		12 34	15 36	2 2	6 40	1 48
24		4 49	7 12	12 54	12 26	2 39	7 35	2 0
25	St. Mark.	4 47	7 14	13 13	8 33	3 11	8 28	2 11
26	Oxf. & C. T. beg	4 45	7 16	13 33	4 14	3 40	9 20	2 21
27		4 43	7 18	13 52	0 N. 17	4 6	10 10	2 31
28		4 41	7 20	14 11	4 44	4 32	11 0	2 40
29		4 40	7 21	14 29	8 51	☽ sets.	11 50	2 49
A	2 S. aft. Easter.	4 38	7 23	14 48	12 29	8 A. 1	0 A. 39	2 58

Day	Day increas.	Length of Day.	Helioc. Plac. ♄	Helioc. Plac. ♅	Helioc. Plac. ♂	Helioc. Plac. ☿	Helioc. Plac. ♀	Helioc. Plac. ☿	Saturn sets.
1	5 11	12 55	5♎46	24♉27	21♍14	11♎35	0♊49	1♍ 5	5M49
7	5 35	13 19	5 58	24 59	23 53	7 25	10 29	19 2	5 27
13	5 57	13 41	6 10	25 32	26 33	3 21	20 9	5♐5C	5 4
19	6 21	14 5	6 22	26 4	29 13	29 13	29 51	22 19	4 41
25	6 43	14 27	6 34	26 37	1♎56	5♍ 3	9♋34	9♑15	4 18

April, 1775.

Days	Day lig. begins.	Day lig. ends.	Durat. Twilig.	Node ☽ in ♍	Lat. ♄ North	Lat. ♃ South.	Lat.. ♂ North.	Lat. ♀ South.	Lat. ☿ North.
1	3 33	8 27	2 3	1 47	2 42	0 48	3 13	0 22	1 17
7	3 17	8 43	2 8	1 28	2 42	0 47	2 58	0 7	0 S.16
13	3 2	8 58	2 11	1 9	2 41	0 46	2 43	0N. 9	1 32
19	2 47	9 13	2 15	0 50	2 41	0 45	2 29	0 25	2 22
25	2 26	9 34	2 25	0 32	2 40	0 45	2 16	0 42	2 49

Days	☉ d.	m.	s.	☽	☽	Lat. ☽	♄ ℞	♎	♃	♉	♂ ℞	♌	♀	♉	☿ ℞	♓
1	11	34	51	26	9	4 S. 8	5	5	17	42	25	21	1	56	27	39
A	12	33	54	9	♉39	4 44	5	1	17	54	25	18	3	10	27	11
3	13	32	55	22	47	5 5	4	56	18	7	25	16	4	24	26	49
4	14	31	55	5	♊35	5 10	4	52	18	20	25	14	5	37	26	32
5	15	30	52	18	4	4 59	4	47	18	33	25	13	6	51	26	21
6	16	29	47	0	♋16	4 35	4	42	18	46	25	D.13	8	5	26	15
7	17	28	40	12	15	4 0	4	38	18	59	25	14	9	19	26	D.16
8	18	27	31	24	6	3 14	4	33	19	12	25	15	10	33	26	20
A	19	26	21	5	♌55	2 21	4	29	19	25	25	17	11	46	26	29
10	20	25	9	17	47	1 21	4	24	19	39	25	20	12	59	26	43
11	21	23	54	29	47	0 17	4	20	19	52	25	24	14	13	27	3
12	22	22	38	11	♍58	0N.49	4	15	20	5	25	28	15	26	27	28
13	23	21	19	24	26	1 53	4	11	20	19	25	33	16	39	27	56
14	24	19	58	7	♎12	2 54	4	6	20	32	25	39	17	52	28	29
15	25	18	34	20	16	3 47	4	2	20	46	25	45	19	6	29	5
A	26	17	10	3	♏38	4 28	3	58	21	0	25	52	20	19	29	45
17	27	15	43	17	17	4 55	3	54	21	13	25	59	21	32	0	♈29
18	28	14	16	1	♐ 8	5 5	3	50	21	27	26	7	22	46	1	17
19	29	12	46	15	9	4 58	3	46	21	40	26	16	23	59	2	9
20	♉	11	14	29	18	4 31	3	42	21	54	26	25	25	12	3	3
21	1	9	41	13	♑26	3 49	3	39	22	8	26	35	26	25	4	0
22	2	8	5	27	36	2 53	3	35	22	21	26	45	27	38	5	0
A	3	6	27	11	♒44	1 46	3	31	22	35	26	56	28	51	6	3
24	4	4	48	25	49	0 32	3	27	22	49	27	8	0	♊ 4	7	9
25	5	3	6	9	♓50	0 S.42	3	24	23	2	27	20	1	17	8	17
26	6	1	22	23	46	1 54	3	20	23	16	27	33	2	30	9	28
27	6	59	38	7	♈35	2 58	3	17	23	30	27	46	3	42	10	42
28	7	57	52	21	15	3 51	3	13	23	44	28	0	4	55	11	58
29	8	56	3	4	♉43	4 31	3	10	23	58	28	14	6	8	13	17
A	9	54	13	17	57	4 54	3	6	24	12	28	29	7	21	14	38

Days	Jupiter sets.	Mars sets.	Venus sets.	Mercu. rises.	Dec. ♄ North.	Dec. ♃ North.	Dec. ♂ North.	Dec. ♀ North.	Dec. ☿ North.
1	9A.49	4M44	8A 22	5M 2	0 27	16 22	16 7	11 50	0 15
7	9 35	4 20	8 46	4 48	0 38	16 44	15 55	14 30	1 S.44
13	9 22	3 56	9 6	4 37	0 48	17 6	15 34	16 59	2 14
19	9 7	3 35	9 28	4 26	0 57	17 28	15 6	19 13	1 19
25	8 52	3 14	9 48	4 15	1 5	17 50	14 32	21 9	0N 42

The Lunations.

First Quarter the 7th Day, 27 Minutes past 6 at Night.
Full Moon the 15th Day, 33 Minutes after 8 in the Morning.
Last Quarter the 22d Day, 51 Minutes past 1 in the Morning.
New Moon the 29th Day, 32 Mintes past 8 in the Morning.

M D.	Sunday & other remark. Days.	Sun rises.	Sun sets.	Dec. ☉ North.	Dec. ☽ North.	Moon sets.	Moon South	Clock aft. Sun.
1	St. Phil. & Jam.	4 36	7 25	15 6	15 26	9A. 7	1A.29	3 7
2		4 34	7 27	15 24	17 35	10 11	2 18	3 15
3	Term begins.	Inv. of the Cross		15 42	18 51	11 5	3 8	3 22
4		4 31	7 30	15 59	19 12	11 54	3 56	3 29
5		4 30	7 31	16 17	18 42	Morn.	4 45	3 35
6	St. John A.P.L.	4 28	7 33	16 34	17 23	0 35	5 32	3 40
A	3 S. aft. Easter.	4 26	7 35	16 50	15 18	1 10	6 18	3 44
8		4 25	7 36	17 7	12 35	1 40	7 3	3 48
9		4 23	7 38	17 23	9 18	2 8	7 47	3 52
10		4 22	7 39	17 39	5 34	2 33	8 32	3 55
11		4 20	7 41	17 54	1 30	2 56	9 18	3 58
12	Old May Day.	4 19	7 42	18 9	2 S.45	3 20	10 5	4 1
13		4 17	7 44	18 24	7 0	3 44	10 54	4 1
A	4 S. aft. Easter.	4 16	7 45	18 39	10 59	4 12	11 46	4 1
15		4 14	7 47	18 53	14 30	☽ rises.	Morn.	4 2
16		4 13	7 48	19 7	17 13	9A. 7	0 42	4 2
17		4 11	7 50	19 21	18 51	10 14	1 38	4 2
18		4 10	7 51	19 34	19 18	11 15	2 38	4 1
19	Q. Charlotte bo.	4 8	7 53	19 47	18 28	Morn.	3 38	3 59
20		4 6	7 54	20 0	16 27	0 4	4 36	3 56
A	Rogat. Sunday.	4 5	7 55	20 12	13 27	0 45	5 32	3 53
22	Prs. Eliz. born.	4 3	7 57	20 24	9 42	1 18	6 27	3 50
23		4 2	7 58	20 36	5 28	1 47	7 19	3 46
24		4 1	7 59	20 47	1 0	2 14	8 7	3 41
25	Holy Thursday.	4 0	8 0	20 58	3N.26	2 39	8 56	3 35
26	Augustin A. B.	3 59	8 1	21 9	7 39	3 4	9 44	3 29
27	Ven. Bede.	3 58	8 2	21 19	11 25	3 30	10 32	3 23
A	6 S. aft. Easter.	3 57	8 3	21 29	14 37	3 58	11 22	3 16
29	K. Ch. II. Rest	Term ends.		21 38	17 3	☽ sets.	0A.10	3 9
30		3 55	8 5	21 47	18 39	8A 57	1 0	3 1
31		3 54	8 6	21 56	19 21	9 48	1 50	2 53

Days	Day increas.	Length of Day.	Helioc. Plac. ♄	Helioc. Plac. ♃	Helioc. Plac. ♂	Helioc. Plac. ☉	Helioc. Plac. ♀	Helioc. Plac. ☿	Saturn sets.
1	7 5	14 49	6♎40	27♉ 8	4♎37	10♏52	19♋18	27♑26	3M55
7	7 25	15 9	6 58	27 40	7 20	16 41	29 2	17♒48	3 31
13	7 43	15 27	7 10	28 12	10 3	22 28	8♌47	11♓32	3 7
19	8 1	15 45	7 22	28 44	12 48	28 14	18 33	9♈56	2 43
25	8 16	16 0	7 34	29 16	15 33	4♐ 0	28 18	13♉37	2 18

May, 1775.

Days	Day lig. begins.	Day lig ends.	Durat. Twilig.	Node ☽ in ♍	Lat. ☿ North.	Lat. ♃ South.	Lat. ♂ North.	Lat. ♀ North.	Lat. ☿ South.
1	2 6	9 57	2 37	0 13	2 39	0 44	2 3	0 58	2 53
7	1 44	10 19	2 48	29♌55	2 38	0 43	1 51	1 12	2 35
13	1 19	10 45	3 5	29 36	2 37	0 43	1 40	1 27	1 58
19	0 48	11 20	3 32	29 18	2 36	0 42	1 30	1 38	1 6
25	No Nig.	No Nig.	No Nig.	29 c	2 34	0 42	1 20	1 48	0 4

Days	☉ d.	m.	♉ s.	☽ ☊	Lat. ☽	♄ ♎ ℞	♅	♆	♂	♌	♀	♓	☿	♈
1	10	52	21	0 55	5 S. 2	3 3	24	26	28	47	8	33	16	1
2	11	50	27	13 36	4 55	3 c	24	40	29	c	9	46	17	26
3	12	48	32	26 c	4 34	2 57	24	54	29	16	10	59	18	53
4	13	46	35	8♋ 9	4 1	2 54	25	8	29	33	12	11	20	22
5	14	44	36	20 8	3 17	2 51	25	22	29	50	13	24	21	53
6	15	42	37	1♌59	2 25	2 48	25	36	0♍	8	14	36	23	26
A	16	40	35	13 47	1 28	2 46	25	50	0	26	15	49	25	0
8	17	38	31	25 39	0 26	2 43	26	4	0	45	17	1	26	37
9	18	36	26	7♍38	0N.38	2 41	26	18	1	4	18	13	28	16
10	19	34	20	19 52	1 41	2 38	26	32	1	23	19	25	29	57
11	20	32	12	2♎24	2 40	2 36	26	46	1	42	20	37	1♉	40
12	21	30	3	15 18	3 33	2 33	27	c	2	2	21	49	3	26
13	22	27	52	28 36	4 16	2 31	27	14	2	22	23	1	5	14
A	23	25	39	12♏18	4 46	2 29	27	28	2	43	24	13	7	3
15	24	23	26	26 19	5 c	2 27	27	42	3	4	25	24	8	54
16	25	21	11	10♐37	4 55	2 25	27	56	3	25	26	36	10	47
17	26	18	54	25 7	4 31	2 24	28	11	3	47	27	48	12	42
18	27	16	37	9♑38	3 50	2 22	28	25	4	9	29	0	14	40
19	28	14	18	24 6	2 54	2 20	28	39	4	31	0♎	11	16	40
20	29	11	57	8♒28	1 47	2 19	28	53	4	54	1	23	18	42
A	11	9	36	22 40	0 34	2 17	29	7	5	17	2	34	20	45
22	1	7	13	6♓41	0S.40	2 16	29	21	5	40	3	46	22	50
23	2	4	48	20 31	1 51	2 14	29	36	6	4	4	57	24	56
24	3	2	23	4♈10	2 54	2 13	29	50	6	28	6	9	27	4
25	3	59	55	17 37	3 47	2 12	0♊	4	6	52	7	20	29	13
26	4	57	26	☉♉54	4 26	2 11	0	18	7	16	8	31	1♊	23
27	5	54	57	13 59	4 51	2 10	0	32	7	41	9	43	3	34
A	6	52	28	26 52	5 1	2 10	0	46	8	6	10	54	5	45
29	7	49	57	9♊32	4 55	2 9	1	c	8	31	12	5	7	57
30	8	47	26	22 0	4 35	2 8	1	14	8	57	13	16	10	9
31	9	44	54	4♋15	4 3	2 8	1	28	9	23	14	27	12	21

Days	Jupiter sets.	Mars sets.	Venus sets.	Mercu. rises.	Dec. ☿ North	Dec. ♃ North.	Dec. ♂ North.	Dec. ♀ North.	Dec. ☿ North.
1	8 A 36	2 M 52	10 A 6	4 M 8	1 13	18 11	13 51	22 43	3 39
7	8 21	2 31	10 23	3 58	1 19	18 32	13 4	23 54	7 17
13	8 5	2 10	10 37	3 51	1 23	18 52	12 12	24 45	11 26
19	7 50	1 49	10 47	3 4c	1 27	19 12	11 16	25 7	15 47
25	rises.	1 27	10 53	3 46	1 29	19 30	10 14	25 5	19 57

The Lunations.

First Quarter the 6th Day, 40 Minutes past 11 in the Morning.
Full Moon the 13th Day, 48 Minutes after 4 in the Afternoon.
Last Quarter the 20th Day, 50 Minutes past 7 in the Morning.
New Moon the 27th Day, 6 Minutes after 10 at Night.

M D.	Sundays & other remark. Days.	Sun rises.	Sun sets.	Dec. ☉ North.	Dec. ☽ North.	Moon sets.	Moon South.	Clock aft. Sun
1	Oxf. Term ends.	Nicom.	8 7	22 5	19 10	10 A 32	2 A. 38	2 45
2		3 52	8 8	22 13	18 6	11 10	3 25	2 36
3		3 51	8 9	22 20	16 18	11 43	4 12	2 27
4	Whit-Sunday.	K. Geo. III. born		22 27	13 46	Morn.	4 57	2 17
5	Whit-Monday.	Pr. Ern. Aug. born		22 34	9 41	0 10	5 41	2 7
6	Whit-Tuesday.	3 49	8 11	22 41	7 6	0 35	6 25	1 57
7	Ember Week.	3 48	8 12	22 47	3 12	0 58	7 8	1 46
8		3 48	8 12	22 52	0 S. 58	1 20	7 53	1 36
9		3 47	8 13	22 57	5 12	1 42	8 40	1 25
10	Pr. Amelia bor	3 47	8 13	23 2	9 19	2 8	9 30	1 13
11	Trinity Sunday.	St. Barnabas.		23 7	13 5	2 37	10 23	1 1
12		3 46	8 14	23 11	16 12	3 9	11 19	0 49
13		3 46	8 14	23 14	18 23	☽ rises.	Morn.	0 37
14	Oxf. Term beg.	3 45	8 15	23 17	19 22	8 A. 59	0 19	0 25
15	Corpus Christi.	3 45	8 15	23 20	19 2	9 55	1 21	0 13
16	Term begins.	3 44	8 16	23 22	17 22	10 40	2 23	obef. 0
17	St. Alban.	3 44	8 16	23 24	14 35	11 17	3 22	0 12
18	1 Sun. aft. Trin.	3 43	8 17	23 26	10 56	11 48	4 18	0 25
19		3 43	8 17	23 27	6 43	Morn.	5 12	0 38
20	Pr. Edw. K. WS.	3 43	8 17	23 28	2 14	0 14	6 2	0 51
21	Longest Day.	3 43	8 17	23 28	2 N. 15	0 40	6 51	1 4
22		3 43	8 17	23 28	6 32	1 5	7 39	1 17
23		3 43	8 17	23 27	10 27	1 29	8 27	1 30
24	St. John Bapt.	3 43	8 17	23 26	13 46	1 57	9 15	1 43
25	2 Sun. aft. Trin.	3 44	8 16	23 25	16 25	2 28	10 3	1 55
26		3 44	8 16	23 23	18 17	3 3	10 51	2 8
27		3 44	8 16	23 21	19 16	☽ sets.	11 38	2 21
28		3 45	8 15	23 18	19 22	8 A. 23	0 A. 28	2 34
29	St. Peter.	3 45	8 15	23 15	18 36	9 5	1 15	2 46
30		3 46	8 14	23 12	17 1	9 36	2 2	2 58

Days	Day increas.	Length of Day.	Helioc. Plac. ♄	Helioc. Plac. ♃	Helioc. Plac. ♂	Helioc. Plac. ☉	Helioc. Plac. ♀	Helioc. Plac. ☿	Saturn sets.
1	8 30	16 14	7♎47	29♉53	18♎48	10♐42	9♏40	27♊19	1 M. 49
7	8 40	16 24	7 59	0♊25	21 36	16 27	19 25	3♌25	1 24
13	8 44	16 28	8 11	0 57	24 26	22 10	29 8	4♏28	0 59
19	8 50	16 34	8 23	1 29	27 16	27 54	8♎50	0♎ 5	0 34
25	o Decr. 2	16 32	8 35	2 1	o♍ 8. 3	♑37	18 31	21 35	0 9

June, 1775.

Days	Day lig. begins.	Day lig. ends.	Durat. Twilig.	Node ☽ in ☊	Lat. ♄ North.	Lat. ♃ South.	Lat. ♂ North.	Lat. ♀ North.	Lat. ☿ North.
1				28 39	2 33	0 41	1 9	1 56	1 6
7	All	All	All	28 21	2 31	0 41	1 1	2 0	1 46
13	Day	Day	Day	28 3	2 30	0 41	0 53	2 1	2 1
19	Light.	Light.	Light.	27 45	2 28	0 40	0 45	1 58	1 50
25				27 27	2 27	0 40	0 38	1 52	1 15

Days	☉ d.	☉ m.	☉ s.	☽	Lat. ☽	♄ ℞	♃	♂	♀	☿
1	10	42	20	16 19	3 S.20	2 8	1 42	9 49	15 38	14 33
2	11	39	46	28 14	2 29	2 7	1 56	10 15	16 49	16 44
3	12	37	10	10♌ 3	1 31	2 7	2 10	10 42	18 0	18 54
A	13	34	33	21 50	0 31	2 7	2 24	11 9	19 10	21 2
5	14	31	55	3♍40	0N.32	2D. 7	2 38	11 37	20 21	23 9
6	15	29	17	15 39	1 34	2 7	2 52	12 4	21 31	25 15
7	16	26	38	27 52	2 34	2 8	3 6	12 32	22 42	27 19
8	17	23	58	10♎24	3 27	2 8	3 20	13 0	23 52	29 21
9	18	21	17	23 20	4 11	2 8	3 34	13 28	25 2	1♑21
10	19	18	36	6♍42	4 44	2 9	3 47	13 57	26 13	3 19
A	20	15	54	20 32	5 1	2 9	4 1	14 25	27 23	5 15
12	21	13	12	4♐48	5 0	2 10	4 14	14 53	28 33	7 8
13	22	10	29	19 24	4 40	2 11	4 28	15 22	29 43	8 58
14	23	7	46	4♑14	4 1	2 12	4 41	15 51	0♌53	10 46
15	24	5	2	19 9	3 5	2 14	4 55	16 21	2 2	12 32
16	25	2	17	4♒ 0	1 57	2 15	5 9	16 50	3 12	14 16
17	25	59	32	18 41	0 41	2 16	5 22	17 20	4 21	15 58
A	26	56	46	3♓ 7	0 S.36	2 18	5 36	17 50	5 31	17 37
19	27	54	0	17 15	1 49	2 19	5 50	18 20	6 40	19 14
20	28	51	14	1♈ 5	2 55	2 21	6 3	18 50	7 49	20 49
21	29	48	27	14 37	3 49	2 23	6 17	19 21	8 58	22 21
22	♋	45	40	27 53	4 30	2 24	6 30	19 52	10 7	23 50
23	1	42	53	10♉53	4 55	2 26	6 44	20 22	11 16	25 17
24	2	40	6	23 39	5 6	2 28	6 57	20 53	12 25	26 41
A	3	37	18	6♊14	5 2	2 30	7 10	21 24	13 34	28 3
26	4	34	30	18 37	4 43	2 32	7 24	21 56	14 42	29 23
27	5	31	42	0♋50	4 12	2 35	7 37	22 28	15 51	0♌40
28	6	28	54	12 55	3 29	2 37	7 50	22 59	16 59	1 54
29	7	26	6	24 51	2 38	2 39	8 3	23 31	18 8	3 6
30	8	23	17	6♌41	1 40	2 42	8 16	24 3	19 16	4 15

Days	Jupiter rises.	Mars sets.	Venus sets.	Mercu. sets.	Dec. ♄ North.	Dec. ♃ North.	Dec. ♂ North.	Dec. ♀ North.	Dec. ☿ North.
1	3 M31	1 M 3	10A.56	8A.37	1 30	19 51	8 58	24 29	23 40
7	3 11	0 42	10 54	9 17	1 28	20 8	7 48	23 32	25 14
13	2 50	0 21	10 50	9 43	1 25	20 24	6 35	22 12	25 12
19	2 28	11A.56	10 45	9 54	1 21	20 40	5 19	20 33	23 55
25	2 8	11 36	10 35	9 51	1 15	20 52	3 59	18 34	21 49

The Lunations.

First Quarter the 6th Day, 14 Minutes past 2 in the Morning.
Full Moon the 12th Day, 56 Minutes past 11 at Night.
Last Quarter the 19th Day, 33 Minutes past 3 in the Afternoon.
New Moon the 27th Day, 3 Minutes past 1 in the Afternoon.

M D.	Sunday & other remark. Days.	Sun rises.	Sun sets.	Dec. ☉ North.	Dec. ☽ North.	Moon sets.	Moon South.	Clock bef. Sun
1		3 46	8 14	23 8	14 34	10A. 9	2A 46	3 10
A 2	3 Sun. aft. Trin.	Visit. B. V. Mary		23 4	11 48	10 34	3 31	3 21
3		3 47	8 13	22 59	8 24	10 58	4 14	3 32
4	Camb. Commen.	3 48	8 12	22 54	4 38	11 21	4 57	3 42
5	Term ends.	Old Md. Day.		22 49	0 37	11 42	5 42	3 52
6		3 49	8 11	22 43	3 S. 31	Morn.	6 26	4 2
7	Camb. Term ends.	Thomas à Beck.		22 37	7 37	0 5	7 14	4 12
8		3 50	8 10	22 30	11 29	0 32	8 4	4 21
A 9	4 Sun. aft. Trin.	3 51	8 9	22 23	14 52	1 1	8 59	4 31
10	Oxford Act.	3 52	8 8	22 16	17 30	1 36	9 56	4 40
11		3 53	8 7	22 8	19 4	2 21	10 56	4 49
12		3 54	8 6	22 0	19 22	3 17	11 58	4 57
13		3 55	8 5	21 51	18 16	☽ rises.	Morn.	5 5
14		3 56	8 4	21 43	15 53	9A. 9	0 59	5 12
15	Oxf. Term ends.	Swithin	8 3	21 33	12 26	9 45	2 0	5 19
A 16	5 Sun. aft. Trin.	3 58	8 2	21 24	8 17	10 14	2 57	5 25
17		3 59	8 1	21 14	3 44	10 39	3 50	5 30
18		4 0	8 0	21 3	0 N. 55	11 5	4 41	5 36
19		4 1	7 59	20 53	5 22	11 32	5 31	5 41
20	Margaret V. M.	4 3	7 57	20 41	9 26	11 58	6 19	5 45
21		4 4	7 56	20 30	12 56	Morn.	7 7	5 49
22	Q. Denm. born.	St. Mary Magd.		20 18	15 46	0 26	7 56	5 52
A 23	6 Sun. aft. Trin.	4 7	7 53	20 6	17 50	1 0	8 44	5 54
24		4 8	7 52	19 54	19 3	1 37	9 32	5 56
25	St. James.	4 10	7 50	19 41	19 23	2 23	10 20	5 57
26	St. Anne, M. of	4 11	7 49	19 28	18 52	3 12	11 9	5 57
27	the B. V. Mary.	4 13	7 47	19 14	17 32	☽ sets.	11 57	5 57
28		4 14	7 46	19 1	15 24	8A. 10	0A. 43	5 57
29		4 15	7 45	18 47	12 40	8 35	1 27	5 56
A 30	7 Sun. aft. Trin.	Dog Days beg.		18 32	9 25	9 0	2 11	5 54
31		4 18	7 42	18 18	5 45	9 23	2 54	5 51

Days	Day decreas.	Length of Day	Helioc. Plac. ♄	Helioc. Plac. ♅	Helioc. Plac. ♂	Helioc. Plac. ☉	Helioc. Plac. ♀	Helioc. Plac. ☿	Saturn sets.
1	0 6	16 28	8♎47	21133	3♏ 2	9♑20	28♎10	10♏23	11A.40
7	0 14	16 20	8 59	3 5	5 57	15 4	7♏47	27 37	11 16
13	0 24	16 10	9 11	3 37	8 53	20 47	17 23	14♐ 9	10 52
19	0 36	15 58	9 23	4 8	11 51	26 30	26 57	0♑46	10 28
25	0 54	15 40	9 35	4 40	14 51	2♒14	6♐30	18 13	10 5

July 1775.

Days	Day lig. begins.	Day lig. ends.	Durat. Twilig.	Node ☽ in ☊	Lat. ♄ North.	Lat. ♃ South.	Lat. ♂ North.	Lat. ♀ North.	Lat. ☿ North.
1				27 9	2 26	0 40	0 31	1 42	0 21
7	All	All	All	26 51	2 24	0 40	0 24	1 29	0 S. 51
13	Day	Day	Day	26 33	2 23	0 40	0 18	1 11	2 13
19	Light.	Light.	Light.	26 15	2 22	0 40	0 12	0 50	3 36
25	0 45	11 7	3 20	25 57	2 21	0 39	0 6	0 25	4 38

Days	☉ d.	☉ m.	☉ s.	☽	☊	Lat. ☽	♄	♎	♃	♊	♂	♍	♀	♌	☿	♌
1	9	20	28	18	28	0 S. 38	2	44	8	29	24	35	20	24	5	20
A	10	17	38	0♍	15	0 N. 26	2	47	8	42	25	8	21	32	6	23
3	11	14	50	12	5	1 29	2	50	8	55	25	41	22	40	7	23
4	12	12	2	24	4	2 25	2	53	9	8	26	14	23	47	8	20
5	13	9	14	6♎	16	3 23	2	56	9	21	26	46	24	55	9	14
6	14	6	26	18	46	4 9	2	59	9	34	27	19	26	2	10	4
7	15	3	38	1♍	40	4 44	3	2	9	46	27	52	27	10	10	51
8	16	0	50	14	59	5 6	3	5	9	59	28	26	28	17	11	33
A	16	58	3	28	48	5 10	3	9	10	12	28	59	29	24	12	12
10	17	55	16	13♐	4	4 56	3	12	10	24	29	33	0♍	31	12	47
11	18	52	29	27	45	4 22	3	15	10	37	0♎	6	1	38	13	19
12	19	49	42	12♑	44	3 30	3	19	10	49	0	40	2	44	13	48
13	20	46	56	27	52	2 23	3	22	11	1	1	14	3	51	14	12
14	21	44	10	13♒	1	1 5	3	26	11	14	1	48	4	57	14	31
15	22	41	25	28	1	0 S. 17	3	30	11	26	2	23	6	3	14	45
A	23	38	40	12♓	44	1 36	3	34	11	38	2	57	7	8	14	54
17	24	35	56	27	5	2 47	3	38	11	50	3	32	8	14	14	58
18	25	33	12	11♈	3	3 46	3	43	12	2	4	6	9	20	14℞	57
19	26	30	29	24	38	4 31	3	47	12	14	4	41	10	25	14	51
20	27	27	46	7♉	51	5 0	3	51	12	26	5	16	11	30	14	40
21	28	25	4	20	44	5 13	3	56	12	37	5	51	12	35	14	25
22	29	22	23	3♊	20	5 11	4	0	12	49	6	27	13	40	14	5
A	☊	19	42	15	42	4 54	4	4	13	0	7	2	14	45	13	41
24	1	17	2	27	52	4 24	4	9	13	12	7	37	15	49	13	12
25	2	14	23	9♋	53	3 43	4	13	13	23	8	12	16	54	12	38
26	3	11	44	21	48	2 52	4	18	13	35	8	48	17	58	12	1
27	4	9	5	3☊	38	1 54	4	22	13	46	9	24	19	2	11	22
28	5	6	28	15	26	0 51	4	27	13	58	10	0	20	5	10	41
29	6	3	52	27	13	0 N. 14	4	32	14	9	10	36	21	8	9	58
A	7	1	17	9♍	2	1 18	4	37	14	20	11	12	22	10	9	14
31	7	58	43	20	56	2 20	4	42	14	31	11	48	23	13	8	29

Days	Jupiter rises.	Mars sets.	Venus sets.	Mercu. sets.	Dec. ♄ North.	Dec. ♃ North.	Dec. ♂ North.	Dec. ♀ North.	Dec. ☿ North.
1	1M 48	11A. 16	10A 22	9A. 37	1 8	21 5	2 37	16 20	19 19
7	1 28	10 56	10 10	9 23	1 0	21 17	1 13	13 52	16 44
13	1 7	10 36	9 55	8 54	0 51	21 28	0 S. 13	11 13	14 29
19	0 47	10 17	9 42	8 21	0 40	21 38	1 41	8 27	12 57
25	0 28	9 58	9 25	7 44	0 28	21 47	3 10	5 34	12 34

The Lunations.

First Quarter the 4th Day, 17 Minutes past 2 in the Afternoon.
Full Moon the 11th Day, 5 Minutes after 7 in the Morning.
Last Quarter the 18th Day, 12 Minutes past 2 in the Morning.
New Moon the 26th Day, 6 Minutes past 5 in the Morning.

M D.	Sund. & other remark. Days.	Sun rises.	Sun sets.	Dec. ☉ North.	Dec. ☽ North.	Moon sets.	Moon South.	Clock bef. Sun
1	Lammas Day.	4 20	7 40	18 3	1 49	9 A.4[illegible]	3 A.37	5 48
2		4 21	7 39	17 47	2 S.15	10 [illegible]	4 21	5 44
3		4 23	7 37	17 32	6 21	10 3[illegible]	5 6	5 40
4		4 24	7 36	17 16	10 10	10 59	5 54	5 35
5		4 25	7 34	17 0	13 50	11 31	6 45	5 30
A 6	Sun. aft. Trin.	Transfiguration.		16 43	16 32	Morn.	7 39	5 24
7		4 28	7 31	16 27	18 29	0 11	8 36	5 18
8		4 30	7 29	16 10	19 22	0 59	9 38	5 11
9		4 31	7 28	15 53	18 55	1 59	10 39	5 3
10	St. Laurence.	4 33	7 26	15 35	17 8	3 10	11 41	4 55
11	Prs. Brunsw. bo	4 35	7 24	15 17	14 5	☽ rises.	Morn.	4 46
12	Pr. Wales born	O. Lammas Day.		14 59	10 7	8 A.12	0 41	4 36
A 13	Sun. aft. Trin.	4 38	7 21	14 41	5 34	8 41	1 37	4 26
14		4 40	7 19	14 23	0 48	9 9	2 32	4 16
15	Assum. B.V.M.	4 42	7 17	14 4	3 N.52	9 39	3 23	4 5
16	Pr. Fred. born.	4 44	7 15	13 45	8 11	10 4	4 15	3 54
17		4 45	7 14	13 26	11 57	10 31	5 5	3 42
18		4 47	7 12	13 7	15 2	11 4	5 54	3 30
19		4 49	7 10	12 47	17 20	11 41	6 42	3 17
A 20	Sun. aft. Trin.	4 51	7 8	12 28	18 47	Morn.	7 31	3 3
21	Pr. W. H. born.	4 53	7 6	12 8	19 21	0 23	8 20	2 49
22		4 54	7 5	11 48	19 3	1 11	9 9	2 34
23		4 56	7 3	11 27	17 55	2 4	9 58	2 19
24	St. Bartholom.	4 58	7 1	11 7	16 0	3 2	10 45	2 3
25		5 0	6 59	10 46	13 24	4 2	11 29	1 47
26		5 2	6 57	10 25	10 15	☽ sets.	0 A.15	1 31
A 27	Sun. aft. Trin.	5 4	6 55	10 4	6 40	7 A.34	0 57	1 14
28	St. Augustine.	5 6	6 53	9 43	2 46	7 55	1 41	0 57
29	Deco. St. J. Bap.	5 8	6 51	9 22	1 S.16	8 18	2 25	0 40
30		5 10	6 49	9 0	5 20	8 42	3 9	0 22
31		5 12	6 47	8 39	9 14	9 7	3 56	0 4

Days	Day decreas.	Length of Day.	Helioc. Plac. ♄	Helioc. Plac. ♃	Helioc. Plac. ♂	Helioc Plac. ☉	Helioc. Plac. ♀	Helioc. Plac. ☿	Saturn sets.
1	1 14	15 20	9 ♎ 49	5 ♊ 17	18 ♍ 23	8 ♌ 56	17 ♐ 36	10 ♌ 38	9 A.38
7	1 31	15 3	10 0	5 49	21 27	14 41	27 6	3 ♓ 18	9 16
13	1 51	14 43	10 12	6 21	24 32	20 27	6 ♑ 36	0 ♈ 2	8 55
19	2 13	14 21	10 24	6 52	27 40	26 13	16 5	2 ♉ 1	8 34
25	2 35	13 59	10 36	7 24	0 ♐ 49	2 ♓ 1	25 34	8 ♊ 35	8 13

August, 1775.

Days	Day lig. begins.	Day lig. ends.	Durat. Twilig.	Node ☽ in ☊	Lat. ♄ North.	Lat. ♃ South.	Lat. ♂ North.	Lat. ♀ South.	Lat. ☿ South.
1	1 23	10 34	2 58	25 36	2 19	0 39	0 0	0 10	4 52
7	1 47	10 13	2 46	25 18	2 18	0 39	0 S. 6	0 43	3 51
13	2 9	9 51	2 34	25 0	2 17	0 39	0 11	1 19	2 16
19	2 29	9 30	2 25	24 42	2 17	0 39	0 15	1 58	0 35
25	2 47	9 13	2 18	24 23	2 16	0 39	0 20	2 40	0 N. 46

Days	☉ d.	☉ m.	☉ s.	☽	☽ ☌	Lat. ☽	♄	☌	♃	♊	♂	☌	♀	♍	☿ Rx	☊
1	8	56	11	2	59	3 N. 16	4	47	14	41	12	24	24	15	7	45
2	9	53	39	15	14	4 ~ 5	4	52	14	52	13	1	25	17	7	1
3	10	51	8	27	45	4 43	4	58	15	2	13	37	26	19	6	18
4	11	48	38	10 ♍	36	5 8	5	3	15	12	14	14	27	21	5	39
5	12	46	8	23	51	5 17	5	8	15	23	14	50	28	22	5	3
A	13	43	40	7 ♎	31	5 9	5	14	15	33	15	27	29	24	4	32
7	14	41	12	21	38	4 43	5	19	15	43	16	4	0 ☌	25	4	5
8	15	38	45	6 ♑	10	3 58	5	25	15	53	16	41	1	25	3	45
9	16	36	21	21	4	2 56	5	31	16	3	17	19	2	26	3	32
10	17	33	57	6 ♒	11	1 40	5	36	16	13	17	56	3	26	3	25
11	18	31	34	21	24	0 19	5	42	16	23	18	33	4	26	3 D.	26
12	19	29	14	6 ♓	32	1 S. 5	5	48	16	32	19	11	5	25	3	33
A	20	26	54	21	28	2 23	5	54	16	42	19	48	6	23	3	46
14	21	24	36	6 ♈	3	3 30	5	59	16	52	20	26	7	21	4	8
15	22	22	19	20	13	4 22	6	5	17	1	21	4	8	19	4	38
16	23	20	3	3 ♉	56	4 57	6	11	17	10	21	43	9	16	5	15
17	24	17	49	17	13	5 15	6	17	17	19	22	21	10	13	5	59
18	25	15	36	0 ♊	6	5 17	6	23	17	28	22	59	11	9	6	50
19	26	13	25	12	39	5 3	6	30	17	37	23	37	12	5	7	48
A	27	11	15	24	54	4 35	6	36	17	45	24	16	13	1	8	52
21	28	9	7	6 ♋	58	3 56	6	42	17	54	24	54	13	56	10	13
22	29	7	0	18	51	3 7	6	49	18	2	25	33	14	51	11	20
23	♍	4	54	0 ☊	40	2 10	6	55	18	11	26	11	15	45	12	43
24	1	2	50	12	27	1 8	7	1	18	19	26	50	16	38	14	11
25	2	0	47	24	15	0 3	7	8	18	27	27	28	17	31	15	44
26	2	58	46	6 ♍	6	1 N. 2	7	14	18	35	28	7	18	24	17	20
A	3	56	47	18	3	2 5	7	21	18	43	28	47	19	16	19	0
28	4	54	49	0 ☌	6	3 3	7	27	18	50	29	26	20	8	20	44
29	5	52	53	12	18	3 54	7	34	18	58	0 ♏	5	20	59	22	31
30	6	50	59	24	42	4 34	7	41	19	5	0	45	21	49	24	21
31	7	49	6	7 ♎	21	5 2	7	47	19	12	1	24	22	39	26	13

Days	Jupiter rises.	Mars sets.	Venus sets.	Mercu. rises.	Dec. ♄ North.	Dec. ♃ North.	Dec. ♂ South.	Dec. ♀ North.	Dec. ☿ North.
1	0 M. 4	9 A. 36	9 A. 7	rises.	0 13	21 57	4 54	2 8	13 40
7	11 A. 38	9 20	8 50	3 M. 40	0 1	22 3	6 25	0 S. 50	15 31
13	11 19	9 4	8 33	3 16	0 S. 14	22 9	7 56	3 44	17 8
19	11 1	8 48	8 17	3 4	0 29	22 15	9 25	6 35	17 48
25	10 43	8 32	8 0	3 22	0 45	22 19	10 54	9 21	16 53

The Lunations.

First Quarter the 2d Day, 59 Minutes after 11 at Night.
Full Moon the 9th Day, 11 Minutes after 3 in the Afternoon.
Laſt Quarter the 16th Day, 25 Minutes paſt 4 in the Afternoon.
New Moon the 24th Day, 10 Minutes paſt 9 at Night.

M D.	Sunday & other remark. Days.	Sun riſes.	Sun ſets.	Dec. ☉ North.	Dec. ☽ South.	Moon ſets.	Moon South.	Clock aft. Sun
1	Giles, A. & C.	5 14	6 45	8 17	12 46	9A.37	4A.44	0 15
2	London burnt. 1666, O. S.			7 55	15 45	10 14	5 36	0 34
A	12 Sun. aft. Trin.	5 17	6 42	7 33	17 58	10 56	6 31	0 51
4		5 19	6 40	7 11	19 12	11 50	7 29	1 12
5		5 21	6 38	6 49	19 15	Morn.	8 30	1 31
6		5 23	6 36	6 26	18 2	0 54	9 30	1 50
7	Dog Days end.	5 25	6 34	6 4	15 33	2 7	10 30	2 10
8	Nativ. B.V.Ma.	5 27	6 32	5 41	12 1	3 27	11 28	2 30
9		5 29	6 30	5 19	7 41	☽ riſes.	Morn.	2 50
A	13 S. aft. Trin.	5 31	6 28	4 56	2 54	7A.16	0 24	3 10
11		5 33	6 26	4 33	1N.57	7 42	1 18	3 31
12		5 35	6 24	4 10	6 34	8 10	2 9	3 52
13		5 37	6 22	3 47	10 43	8 39	3 2	4 13
14	Holy Croſs Day.	5 39	6 20	3 24	14 9	9 10	3 54	4 34
15		5 41	6 18	3 1	16 47	9 48	4 44	4 55
16		5 43	6 16	2 38	18 31	10 29	5 34	5 16
A	14 Sun. aft. Trin	Lambert B. & M		2 15	19 20	11 15	6 25	5 37
18		5 47	6 12	1 51	19 16	Morn.	7 14	5 58
19		5 49	6 10	1 28	18 21	0 7	8 2	6 19
20	Ember Week.	5 51	6 8	1 5	16 39	1 4	8 49	6 40
21	St. Matthew.	5 53	6 6	0 41	14 12	2 2	9 35	7 0
22	K. Geo. III. cro.	5 55	6 4	0 18	11 11	3 7	10 19	7 21
23		5 57	6 2	0S. 6	7 39	4 10	11 4	7 41
A	15 Sun. aft. Trin.	5 59	6 0	0 29	3 48	☽ ſets.	11 48	8 1
25		6 1	5 58	0 52	0S.20	6A.37	0A.33	8 21
26	St. Cyprian M.	6 3	5 56	1 16	4 26	6 58	1 17	8 42
27		6 5	5 54	1 39	8 26	7 21	2 3	9 2
28		6 7	5 52	2 3	12 6	7 50	2 52	9 22
29	St. Michael.	Prs. Char. Aug. Mat. bor.			15 16	8 23	3 43	9 41
30	St. Jerome.	6 11	5 48	2 50	17 41	9 3	4 35	10 1

Days	Day decreaſ.	Length of Day	Helioc. Plac. ♄	Helioc. Plac. ♃	Helioc. Plac. ♂	Helioc. Plac. ☉	Helioc. Plac. ♀	Helioc. Plac. ☿	Saturn ſets.
1	3 3	13 31	10♎50	8♊ 1	4♐32	8♓47	6♒38	22♍ 1	7A.40
7	3 25	13 (	11 2	8 33	7 46	14 37	16 7	24♌55	7 28
13	3 49	12 45	11 14	9 4	11 2	20 27	25 37	22♏12	7 7
19	4 13	12 21	11 26	9 36	14 19	26 19	5♓ 7	14♎54	6 47
25	4 37	11 57	11 38	10 7	17 39	2♈12	14 38	4♏26	6 26

September, 1775.

Days	Day lig begins.	Day lig. ends.	Durat. Twilig.	Node ☽ in ☊	Lat. ♄ North	Lat. ♃ South.	Lat. ♂ South	Lat. ♀ South	Lat. ☿ North.
1	3 7	8 53	2 11	24 2	2 16	0 40	0 25	3 31	1 38
7	3 24	8 36	2 6	23 43	2 15	0 40	0 29	4 17	1 47
13	3 37	8 23	2 4	23 25	2 15	0 40	0 33	5 2	1 34
19	3 52	8 8	2 1	23 6	2 15	0 40	0 37	5 46	1 4
25	4 5	7 55	2 0	22 47	2 14	0 40	0 41	6 27	0 26

Days	☉ d.	☉ m.	♍ s.	☽	♍ Lat. ☽	♄	♑	♃	♊	♂	♍	♀	♑	☿	☊
1	8	47	15	20 15	5N.16	7	54	19	19	2	3	23	28	28	6
2	9	45	27	3♐28	5	13	8	1	19	26	2	43	24	15	0♍ 0
A	10	43	39	17 2	4	53	8	8	19	32	3	23	25	1	1 55
4	11	41	53	0♑58	4	16	8	15	19	39	4	2	25	47	3 50
5	12	40	10	15 14	3	22	8	22	19	45	4	42	26	32	5 46
6	13	38	27	29 50	2	13	8	29	19	52	5	22	27	16	7 42
7	14	36	46	14♒42	0	55	8	36	19	58	6	2	27	59	9 38
8	15	35	9	29 43	0S.27	8	43	20	4	6	42	28	41	11	33
9	16	33	32	14♓45	1	48	8	50	20	10	7	23	29	22	13 27
A	17	31	57	29 39	3	1	8	57	20	16	8	3	0♍	2	15 21
11	18	30	25	14♈18	4	0	9	4	20	21	8	44	0	41	17 14
12	19	28	54	28 35	4	42	9	11	20	27	9	24	1	19	19 6
13	20	27	25	12♉26	5	7	9	18	20	32	10	4	1	57	20 57
14	21	25	59	25 50	5	14	9	25	20	37	10	45	2	34	22 48
15	22	24	33	8♊47	5	4	9	32	20	42	11	26	3	9	24 37
16	23	23	9	21 21	4	40	9	40	20	46	12	7	3	42	26 25
A	24	21	47	3♋36	4	6	9	47	20	51	12	48	4	13	28 12
18	25	20	27	15 37	3	17	9	54	20	55	13	29	4	42	29 58
19	26	19	9	27 28	2	23	10	1	20	59	14	10	5	9	1♎43
20	27	17	54	9♌16	1	23	10	8	21	3	14	52	5	35	3 28
21	28	16	41	21 3	0	19	10	15	21	7	15	33	6	0	5 12
22	29	15	29	2♍52	0N.46	10	23	21	10	16	15	6	24	6	54
23	♎	14	20	14 51	1	48	10	30	21	14	16	56	6	47	8 35
A	1	13	13	26 57	2	49	10	37	21	17	17	38	7	9	10 15
25	2	12	7	9♎16	3	40	10	44	21	20	18	19	7	29	11 55
26	3	11	3	21 44	4	22	10	52	21	22	19	1	7	47	13 34
27	4	10	2	4♏24	4	52	10	59	21	25	19	43	8	2	15 12
28	5	9	2	17 17	5	8	11	6	21	27	20	25	8	15	16 48
29	6	8	4	0♐24	5	8	11	13	21	29	21	6	8	26	18 24
30	7	7	10	13 45	4	51	11	20	21	31	21	48	8	35	19 59

Days	Jupiter rises.	Mars sets	Venus sets	Mercu. rises.	Dec. ♄ South.	Dec. ♃ North.	Dec. ♂ South.	Dec. ♀ South.	Dec. ☿ North.
1	10A.21	8A.14	7A.38	4M 6	1 4	22 23	12 35	12 24	13 41
7	10 2	8 0	7 18	4 49	1 21	22 26	14 1	14 46	9 38
13	9 43	7 47	7 0	sets.	1 37	22 28	15 23	16 53	5 1
19	9 23	7 33	6 38	6A.25	1 55	22 30	16 42	18 41	0 18
25	9 2	7 20	6 16	6 17	2 12	22 31	17 58	20 7	4S.19

The Lunations.

First Quarter the 2d Day, 19 Minutes past 8 in the Morning.
Full Moon the 9th Day, 10 Minutes before 1 in the Morning.
Last Quarter the 16th Day, 25 Minutes past 10 in the Morning.
New Moon the 24th Day, 30 Minutes past Noon.
First Quarter the 31st Day, 56 Minutes past 3 in the Afternoon.

M D.	Sundays & other remark. Days.	Sun rises.	Sun sets.	Dec. ☉ South.	Dec. ☽ South.	Moon sets.	Moon South.	Clock aft. Sun
A	16Sun.aft.Trin.	Remigius Bp. 47		3 13	19 7	9A.53	5A.31	10 20
2		6 14	5 45	3 36	19 33	10 50	6 29	10 39
3		6 16	5 43	4 0	18 40	11 59	7 28	10 58
4		6 18	5 41	4 23	16 40	Morn.	8 25	11 16
5		6 20	5 39	4 46	13 34	1 15	9 21	11 34
6	Faith.V. & M.	6 22	5 37	5 9	9 35	2 32	10 16	11 52
7		6 24	5 35	5 32	5 0	3 54	11 11	12 9
A	17Sun.aft.Trin.	6 26	5 33	5 55	0 8	5 14	Morn.	12 26
9	St. Denys.	6 28	5 31	6 18	4N.40	☽ rises.	0 5	12 42
10	Oxf.& C.T.beg.	Old Mich. Day.		6 41	9 7	6A.45	0 58	12 58
11		6 32	5 27	7 4	12 59	7 15	1 50	13 13
12		6 34	5 25	7 26	16 2	7 50	2 43	13 27
13	Tr. K. Ed.Conf.	6 36	5 23	7 49	18 10	8 30	3 34	13 41
14		6 38	5 21	8 11	19 22	9 14	4 23	13 54
A	18 S. aft. Trin.	6 40	5 19	8 33	19 36	10 3	5 14	14 7
16		6 42	5 17	8 56	18 55	11 0	6 5	14 20
17	Etheldred.	6 44	5 15	9 18	17 25	11 59	6 52	14 32
18	St. Luke.	6 46	5 13	9 40	15 11	Morn.	7 39	14 44
19		6 47	5 12	10 2	12 18	1 1	8 22	14 55
20		6 49	5 10	10 23	8 53	2 5	9 8	15 5
21		6 51	5 8	10 45	5 5	3 9	9 52	15 15
A	19 S. aft. Trin.	6 53	5 6	11 6	1 0	4 16	10 36	15 24
23		6 55	5 4	11 27	3 S.13	5 23	11 20	15 32
24		6 57	5 2	11 48	7 22	☽ sets.	0A. 6	15 40
25	K.Geo. III. Inc.	Crispin	5 0	12 9	11 16	5A.58	0 54	15 47
26	K.Geo. III. Pro.	7 1	4 58	12 30	14 40	6 30	1 45	15 52
27		7 3	4 56	12 50	17 21	7 5	2 38	15 57
28	St.Simon & Jude	7 5	4 54	13 10	19 5	7 53	3 33	16 1
A	20 Sun.aft.Trin.	7 7	4 52	13 30	19 44	8 48	4 30	16 5
30		7 9	4 50	13 50	19 13	9 53	5 28	16 8
31		7 11	4 48	14 10	17 30	11 3	6 25	16 11

Days	Day decreas.	Length of Day	Helioc. Plac. ♄	Helioc. Plac. ♅	Helioc. Plac. ♂	Helioc. Plac. ☉	Helioc. Plac. ♀	Helioc. Plac. ☿	Saturn sets.
1	4 59	11 35	11♎49	10♊39	21♐ 1	8♈ 6	24♓10	22♍ 4	6A. 5
7	5 23	11 11	12 1	11 1C	24 25	14 2	3♈42	8♐45	rises.
13	5 47	10 47	12 13	11 42	27 50	19 58	13 16	25 16	5M51
19	6 9	10 25	12 25	12 13	1♑18	25 56	22 50	12♑21	5 31
25	6 33	10 1	12 36	12 45	4 48	1♉55	2♉26	0♒51	5 13

October, 1775.

Day.	Day lig. begins.	Day lig. ends.	Durat. Twilig.	Node ☽ in ☊	Lat. ☿ North.	Lat. ♃ South.	Lat. ♂ South.	Lat. ♀ South.	Lat. ☿ South.
1	4 18	7 42	1 59	22 28	2 14	0 40	0 44	7 0	0 16
7	4 31	7 29	1 58	22 9	2 14	0 40	0 47	7 23	0 58
13	4 43	7 17	1 57	21 50	2 15	0 40	0 50	7 24	1 38
19	4 55	7 5	1 57	21 30	2 15	0 40	0 53	6 58	2 13
25	5 6	6 54	1 58	21 11	2 15	0 40	0 56	5 53	2 40

Day.	☉ d.	☉ m.	♎ s.	☽	☿	Lat. ☽	♄	♎	♃	♊	♂	♍	♀	♍	☿	♎
A	8	6	17	27	22	4N.19	11	28	21	33	22	30	8	41	21	34
2	9	5	26	11♑	9	3	27	11	35	21	35	23	13	8	45	23	8
3	10	4	38	25	12	2	29	11	43	21	36	23	55	8	47	24	41
4	11	3	50	9♒	29	1	17	11	50	21	38	24	38	8℞	46	26	13
5	12	3	4	23	58	0 S.	1	11	58	21	39	25	20	8	44	27	44
6	13	2	22	8♓	37	1	19	12	5	21	40	26	3	8	40	29	15
7	14	1	41	23	17	2	32	12	13	21	40	26	45	8	33	0♏	45
A	15	1	1	7♈	56	3	35	12	20	21	41	27	28	8	23	2	14
9	16	0	24	22	24	4	22	12	27	21	41	28	11	8	10	3	42
10	16	59	51	6♉	36	4	53	12	35	21℞	41	28	53	7	55	5	10
11	17	59	19	20	26	5	5	12	42	21	41	29	36	7	38	6	37
12	18	58	49	3♊	51	5	0	12	50	21	40	0♐	19	7	18	8	2
13	19	58	21	16	52	4	40	12	57	21	40	1	2	6	56	9	26
14	20	57	53	29	28	4	6	13	4	21	39	1	45	6	32	10	50
A	21	57	28	11♋	46	3	22	13	11	21	38	2	28	6	6	12	13
16	22	57	5	23	47	2	29	13	19	21	37	3	12	5	39	13	35
17	23	56	44	5♌	39	1	31	13	26	21	35	3	55	5	10	14	57
18	24	56	25	17	25	0	29	13	33	21	34	4	38	4	39	16	18
19	25	56	9	29	13	0N.	34	13	40	21	32	5	22	4	6	17	37
20	26	55	54	11♍	8	1	36	13	48	21	31	6	6	3	32	18	55
21	27	55	43	23	11	2	35	13	55	21	29	6	49	2	57	20	12
A	28	55	33	5♎	28	3	27	14	2	21	26	7	33	2	22	21	27
23	29	55	24	18	0	4	10	14	9	21	24	8	17	1	47	22	41
24	♍	55	18	0♍	48	4	42	14	16	21	21	9	1	1	11	23	54
25	1	55	12	13	51	4	59	14	23	21	18	9	45	0	35	25	4
26	2	55	9	27	7	5	1	14	31	21	14	10	29	29♎	59	26	12
27	3	55	8	10♐	36	4	46	14	38	21	11	11	13	29	24	27	18
28	4	55	9	24	15	4	15	14	45	21	7	11	58	28	48	28	21
A	5	55	12	8♑	2	3	29	14	52	21	3	12	42	28	13	29	22
30	6	55	18	21	56	2	30	14	59	20	59	13	26	27	39	0♐	20
31	7	55	25	5♒	55	1	22	15	6	20	55	14	10	27	7	1	16

Days	Jupiter rises.	Mars sets.	Venus sets.	Mercu. sets.	Dec. ♄ South.	Dec. ♃ North.	Dec. ♂ South.	Dec. ♀ South	Dec. ☿ South.
1	8A.42	7A 8	5A.53	6A. 8	2 30	22 32	19 8	21 3	8 41
7	8 20	6 57	5 28	5 59	2 46	22 32	20 13	21 21	12 37
13	7 58	6 46	5 3	5 49	3 2	22 32	21 12	20 50	16 10
19	7 35	6 36	4 38	5 42	3 20	22 32	22 5	19 27	19 14
25	7 11	6 27	rises.	5 32	3 36	22 31	22 51	17 11	21 39

The LUNATIONS.

Full Moon the 7th Day, 27 Minutes past Noon.
Last Quarter the 15th Day, 13 Minutes after 7 in the Morning.
New Moon the 23d Day, 23 Minutes past 2 in the Morning.
First Quarter the 29th Day, 31 Minutes past 11 at Night.

M D.	Sunday & other remark. Days.	Sun rises.	Sun sets.	Dec. ☉ South.	Dec. ☽ South.	Moon sets.	Moon South.	Clock aft. Sun
1	All Saints.	7 12	4 47	14 20	14 45	Morn.	7 A.20	16 13
2	Pr. Edw. born.	AllSou.	4 45	14 48	11 2	0 20	8 13	16 14
3		7 16	4 43	15 7	6 42	1 38	9 3	16 14
4		7 18	4 41	15 26	2 c	2 57	9 58	16 13
A	21 S. aft. Trin.	Papists Confess.		15 44	2N.49	4 16	10 40	16 11
6	Term begins.	7 21	4 38	16 2	7 25	5 32	11 41	16 9
7	Duk. Cum. born.	7 23	4 36	16 20	11 34	☽ rises.	Morn.	16 6
8	Prs. Sop. Aug. bo.	7 24	4 35	16 38	15 2	5 A.47	0 32	16 2
9	Lord Mayor's	7 26	4 33	16 55	17 37	6 24	1 23	15 57
10	Day at London.	7 28	4 31	17 12	19 14	7 8	2 16	15 51
11	S Martin B. &C.	7 29	4 30	17 29	19 51	7 55	3 8	15 44
A	22 S. aft. Trin.	7 31	4 29	17 45	19 31	8 50	3 58	15 36
13	Britius B.	7 33	4 27	18 1	18 17	9 48	4 47	15 27
14		7 34	4 25	18 17	16 15	10 49	5 34	15 17
15	Machutus.	7 36	4 23	18 33	13 33	11 52	6 19	15 7
16		7 37	4 22	18 48	10 20	Morn.	7 3	14 56
17	Hugh Bp. Linc.	7 38	4 21	19 2	6 37	0 55	7 46	14 45
18		7 40	4 19	19 17	2 38	1 59	8 30	14 33
A	23 S. aft. Trin.	7 42	4 18	19 31	1 S. 32	3 5	9 13	14 20
20	Edm. K. &Mart.	7 43	4 17	19 45	5 49	4 12	9 57	14 5
21		7 45	4 15	19 58	9 55	5 21	10 44	13 50
22	Old Mart. Day.	7 46	4 14	20 11	13 38	6 33	11 34	13 34
23	St. Clement.	7 48	4 12	20 24	16 14	☽ sets.	0 A.27	13 17
24		7 49	4 11	20 36	18 50	5 A.44	1 22	12 59
25	D. Glouc. born.	7 50	4 10	20 48	19 53	6 37	2 19	12 41
A	24 S. aft. Trin.	7 51	4 9	21 0	19 42	7 39	3 18	12 22
27		7 52	4 8	21 11	18 17	8 50	4 16	12 3
28	Term ends.	7 53	4 7	21 22	15 40	10 3	5 12	11 43
29		7 54	4 6	21 32	12 10	11 20	6 6	11 22
30	St. Andrew.	7 55	4 5	21 42	7 58	Morn.	6 57	11 0

Days	Day decreas.	Length of Day.	Helioc. Plac. ♄	Helioc. Plac. ♃	Helioc. Plac. ♂	Helioc. Plac. ☉	Helioc. Plac. ♀	Helioc. Plac. ☿	Saturn rises.
1	6 59	9 35	12♎50	13♊21	8♑56	8♐56	13♐38	25♒31	4M50
7	7 21	9 13	13 2	13 53	12 30	15 57	23 16	20♓43	4 31
13	7 39	8 55	13 14	14 24	16 5	21 c	2♊55	20♈56	4 11
19	7 58	8 36	13 26	14 55	19 43	27 3	12 35	20♉14	3 50
25	8 14	8 20	13 38	15 27	23 22	3♊7	22 16	3♋58	3 28

November, 1775.

Days	Day lig. begins.	Day lig. ends.	Durat. Twil.	Node ☽ in ☊	Lat. ♄ North.	Lat. ♅ South.	Lat. ♂ South.	Lat. ♀ South.	Lat. ☿ South.
1	5 17	6 43	1 59	20 48	2 16	0 40	0 58	4 32	2 51
7	5 25	6 35	2 2	20 28	2 17	0 40	1 0	3 2	2 30
13	5 34	6 26	2 3	20 8	2 17	0 39	1 2	1 33	1 21
19	5 41	6 19	2 5	19 49	2 18	0 39	1 4	0 15	oN.34
25	5 48	6 12	2 7	19 29	2 19	0 38	1 5	oN.50	2 12

Days	☉ d.	☉ m.	☉ s.	☽	☽	Lat. ☽	♄	♎	♅ ℞	♑	♐	♀ ℞	♒	☿	☿
1	8	55	33	20 2		oN. 5	15 13	20 51		14 54	26 37		2 9		
2	9	55	44	4♐13		1 S. 7	15 20	20 40		15 39	26 8		2 57		
3	10	55	56	18 26		2 18	15 26	20 41		16 23	25 40		3 39		
4	11	56	9	2♑41		3 20	15 33	20 37		17 8	25 14		4 16		
A	12	56	25	16 53		4 9	15 40	20 32		17 52	24 50		4 47		
6	13	56	43	0♒58		4 43	15 47	20 27		18 37	24 28		5 12		
7	14	57	2	14 51		4 59	15 54	20 22		19 21	24 9		5 31		
8	15	57	23	28 28		4 58	16 1	20 16		20 7	23 55		5 41		
9	16	57	46	11♓45		4 40	16 7	20 11		20 51	23 40		5 43		
10	17	58	10	24 42		4 8	16 14	20 5		21 36	23 29		5℞35		
11	18	58	36	7♈16		3 25	16 21	20 0		22 21	23 21		5 18		
A	19	59	3	19 34		2 33	16 27	19 54		23 6	23 15		4 51		
13	20	59	32	1♉36		1 35	16 34	19 47		23 51	23 12		4 14		
14	22	0	3	13 31		0 34	16 41	19 41		24 36	23 11		3 26		
15	23	0	35	25 16		oN.28	16 47	19 34		25 22	23D.13		2 28		
16	24	1	9	7♊ 4		1 30	16 54	19 27		26 7	23 18		1 21		
17	25	1	45	18 59		2 27	17 0	19 21		26 53	23 24		0 7		
18	26	2	21	1♋ 6		3 20	17 6	19 14		27 38	23 32		28♏48		
A	27	2	59	13 29		4 4	17 12	19 7		28 24	23 42		27 25		
20	28	3	39	26 11		4 37	17 18	19 0		29 9	23 55		26 3		
21	29	4	20	9♌14		4 56	17 24	18 52		29 55	24 10		24 43		
22	♐	5	2	22 37		5 0	17 30	18 45		0♑40	24 27		23 29		
23	1	5	47	6♐18		4 47	17 36	18 37		1 26	24 46		22 23		
24	2	6	32	20 13		4 17	17 42	18 30		2 11	25 7		21 27		
25	3	7	18	4♑19		3 31	17 48	18 22		2 57	25 31		20 42		
A	4	8	5	18 29		2 31	17 54	18 15		3 43	25 56		20 8		
27	5	8	54	2♒42		1 22	18 0	18 7		4 29	26 23		19 44		
28	6	9	44	16 51		0 8	18 5	17 59		5 16	26 52		19 34		
29	7	10	35	1♓ 2		1 S. 7	18 11	17 51		6 2	27 22		19 33		
30	8	11	28	15 5		2 16	18 17	17 43		6 48	27 53		19D.42		

Days	Jupiter rises.	Mars sets.	Venus rises.	Mercu. sets.	Dec. ♄ South.	Dec. ♅ North.	Dec. ♂ South.	Dec. ♀ South.	Dec. ☿ South.
1	6A.43	6A.17	6M19	5A.23	3 54	22 29	23 33	14 30	23 25
7	6 17	6 10	5 36	5 11	4 10	22 27	24 3	12 12	23 44
13	5 50	6 4	5 1	4 51	4 25	22 26	24 22	10 28	22 21
19	5 22	5 58	4 35	rises.	4 39	22 23	24 32	9 27	19 2
25	4 54	5 53	4 15	6M33	4 51	22 20	24 31	9 6	15 50

The Lunations.

Full Moon the 7th Day, 41 Minutes past 2 in the Morning.
Last Quarter the 15th Day, 45 Minutes past 4 in the Morning.
New Moon the 22d Day, 1 Minute past 3 in the Afternoon.
First Quarter the 29th Day, 58 Minutes after 7 in the Morning.

M D.	Sundays & other remark. Days.	Sun rises.	Sun sets.	Dec. ☉ South.	Dec. ☽ South.	Moon sets.	Moon South.	Clock aft. Sun
1		7 57	4 3	21 51	3 26	oM37	7A.48	10 37
2		7 58	4 2	22 0	1N.18	1 53	8 37	10 13
A	Advent Sunday.	7 59	4 1	22 9	5 55	3 8	9 25	9 49
4		8 0	4 0	22 17	10 11	4 22	10 15	9 25
5		8 0	4 0	22 25	13 53	5 35	11 7	9 0
6	Nicholas Bp.	8 1	3 59	22 32	16 48	6 40	11 57	8 35
7		8 2	3 58	22 39	18 49	☽ rises.	Morn.	8 9
8	Concep. B.V.M.	8 3	3 57	22 46	19 52	5A.36	0 48	7 43
9		8 4	3 56	22 52	19 55	6 27	1 39	7 16
A	2 S. in Advent.	8 5	3 55	22 57	19 1	7 24	2 29	6 49
11		8 5	3 55	23 2	17 16	8 24	3 16	6 21
12		8 6	3 54	23 7	14 48	9 25	4 3	5 53
13	Lucy V. & M.	8 6	3 54	23 11	11 44	10 27	4 48	5 24
14		8 6	3 54	23 15	8 11	11 32	5 31	4 55
15		8 7	3 52	23 18	4 18	Morn.	6 12	4 26
16	Camb. T. ends.	8 7	3 53	23 21	0 11	0 35	6 54	3 56
A	3 S. in Advent.	Oxf. T. ends.		23 23	4 S. 1	1 40	7 38	3 26
18		8 8	3 52	23 25	8 10	2 50	8 23	2 56
19		8 8	3 52	23 27	12 4	3 59	9 10	2 26
20	Ember Week.	8 8	3 52	23 28	15 28	5 10	10 1	1 56
21	St. Thomas.	Shortest Day.		23 28	18 4	6 23	10 55	1 26
22		8 8	3 52	23 28	19 40	☽ sets.	11 52	0 56
23		8 8	3 52	23 27	20 0	5A.10	0A.50	0 26
A	4 S. in Advent.	8 8	3 52	23 26	18 59	6 19	1 52	0b. 4
25	Christmas Day.	8 7	3 53	23 25	16 43	7 35	2 52	0 34
26	St. Stephen.	8 7	3 53	23 23	13 22	8 53	3 48	1 4
27	St. John Evang.	8 7	3 53	23 21	9 15	10 12	4 41	1 34
28	Holy Innocents.	8 6	3 54	23 18	4 41	11 30	5 32	2 3
29		8 6	3 54	23 15	0N. 4	Morn.	6 21	2 33
30		8 5	3 55	23 11	4 43	0 44	7 10	3 2
A	1 S. aft. Christm.	Silvester Bp. 56		23 6	9 3	1 58	7 59	3 32

Days	Day decreas.	Length of Day.	Helioc. Place. ♄	Helioc. Place. ♅	Helioc. Place. ♂	Helioc. Place. ☿	Helioc. Place. ♀	Helioc. Place. ☿	Saturn rises.
1	8 28	8 46	13♎50	15♏58	27♑ 3	9♏12	1♏58	9♐20	3♑ 5
7	8 38	7 56	14 1	16 29	0♒45	15 18	11 41	9♑22	2 41
13	8 46	7 48	14 13	17 0	4 29	21 24	21 25	4♎ 9	2 17
19	8 50	7 44	14 25	17 32	8 14	27 31	1♐ 9	25 5	1 53
25	circ. 2	7 46	14 37	18 3	11 59	3♐38	10 55	13♑31	1 28

December, 1775.

Days	Day lig. begins.	Day lig. ends.	Durat. Twilig.	Node ☽ in ☊	Lat. ♄ North.	Lat. ♃ South.	Lat. ♂ South.	Lat. ♀ North.	Lat. ☿ North.
1	5 54	6 6	2 8	19 8	2 20	0 38	1 6	1 43	2 39
7	5 57	6 3	2 10	18 48	2 21	0 37	1 7	2 23	2 18
13	5 59	6 1	2 12	18 28	2 23	0 36	1 8	2 52	1 38
19	6 1	5 59	2 11	18 8	2 24	0 35	1 8	3 12	0 51
25	6 1	5 59	2 11	17 47	2 26	0 34	1 8	3 22	0 6

Days	☉ d.	☉ m.	♐ s.	☽	☽	Lat. ☽	♄	♎	♃ Rx ♊	♂	♍	♀	♎	☿	♏
1	9	12	22	29 4		3 S. 19	18 23	17 35		7 34	28 25		20 0		
2	10	13	16	12♈57		4 8	18 28	17 27		8 20	28 59		20 27		
A	11	14	12	26 43		4 43	18 34	17 19		9 6	29 35		21 2		
4	12	15	9	10♉21		5 1	18 39	17 11		9 53	0♏13		21 44		
5	13	16	6	23 48		5 2	18 44	17 2		10 39	0 52		22 34		
6	14	17	4	7♊ 2		4 47	18 49	16 54		11 25	1 32		23 29		
7	15	18	2	20 1		4 16	18 54	16 46		12 11	2 12		24 28		
8	16	19	1	2♋42		3 34	18 59	16 38		12 58	2 54		25 31		
9	17	20	3	15 8		2 42	19 4	16 29		13 44	3 37		26 37		
A	18	21	5	27 24		1 44	19 9	16 21		14 31	4 21		27 46		
11	19	22	8	9♌25		0 41	19 14	16 13		15 17	5 6		28 58		
12	20	23	12	21 16		0N. 23	19 19	16 5		16 4	5 52		0♐13		
13	21	24	16	3♍ 3		1 25	19 24	15 57		16 50	6 39		1 30		
14	22	25	20	14 51		2 24	19 29	15 49		17 37	7 27		2 49		
15	23	26	25	26 46		3 17	19 33	15 41		18 24	8 16		4 9		
16	24	27	31	8♎52		4 2	19 38	15 33		19 10	9 6		5 31		
A	25	28	38	21 14		4 37	19 42	15 25		19 57	9 57		6 54		
18	26	29	45	3♏59		5 0	19 46	15 17		20 44	10 49		8 18		
19	27	30	52	17 7		5 7	19 50	15 9		21 31	11 41		9 42		
20	28	32	0	0♐40		4 58	19 54	15 2		22 18	12 34		11 7		
21	29	33	9	14 36		4 32	19 58	14 54		23 4	13 27		12 33		
22	♑	34	18	28 53		3 48	20 2	14 46		23 51	14 21		14 0		
23	1	35	27	13♑24		2 48	20 6	14 39		24 38	15 16		15 28		
A	2	36	36	28 2		1 37	20 10	14 31		25 25	16 12		16 57		
25	3	37	45	12♒41		0 19	20 14	14 24		26 12	17 8		18 26		
26	4	38	54	27 16		1 S. 0	20 17	14 16		26 59	18 5		19 56		
27	5	40	4	11♓40		2 14	20 21	14 9		27 46	19 2		21 25		
28	6	41	14	25 52		3 19	20 24	14 2		28 32	20 0		22 55		
29	7	42	24	9♈51		4 11	20 28	13 55		29 19	20 58		24 25		
30	8	43	35	23 35		4 48	20 31	13 49		0♒ 6	21 57		25 55		
A	9	44	45	7♉ 6		5 8	20 34	13 43		0 53	22 56		27 26		

Days	Jupiter rises.	Mars sets.	Venus rises.	Mercu. rises.	Dec. ♄ South.	Dec. ♃ North.	Dec. ♂ South.	Dec. ♀ South	Dec. ☿ South.
1	4A 25	5A 49	4M 2	6M 0	5 3	22 16	24 22	9 20	15 13
7	3 57	5 46	3 54	5 58	5 14	22 12	24 1	10 1	16 40
13	sets.	5 44	3 52	6 14	5 24	22 8	23 32	11 3	18 54
19	7M 17	5 42	3 51	6 34	5 33	22 4	22 52	12 19	21 5
25	6 46	5 41	3 53	6 55	5 41	21 59	22 3	13 44	22 53

Of the ECLIPSES this YEAR, 1775.

THIS Year will produce four Eclipſes, two of each Luminary, which will happen in the following Order.

The Firſt will be a partial Eclipſe of the Moon, and will happen on Wedneſday the 15th Day of February, near 3 o'Clock in the Afternoon: Therefore inviſible to us; but will be viſible in Aſia. Digits eclipſed near $6^{\circ}\frac{1}{2}$.

The Second Eclipſe is of the Sun, and will happen on Wedneſday the 1ſt Day of March, near our 10 o'Clock at Night: Conſequently inviſible to Us, and to all theſe Parts of the Earth.

The Third will be another partial Eclipſe of the Moon, and will happen on Friday the 11th Day of Auguſt, near our 7 o'Clock in the Morning, inviſible here; but viſible in America.

The following Calculations are adapted to the Meridians of Boſton in New England, New York, and Lima in Peru.

	Boſton.			N. York.			Lima.			
	h.	m.	s.	h.	m.	s	h.	m.	s	
Beginning —	1	0	27	0	46	20	0	35	38	Auguſt the 11th in the Morning.
Middle —	2	28	37	2	14	30	2	3	48	
End — —	3	56	47	3	42	40	3	31	58	
Duration —	2	56	20	2	56	20	2	56	20	
Digits eclipſed	10°	0′		10°	0′		10°	0′		

The Fourth and laſt Eclipſe is of the Sun, and will happen on Saturday the 26th Day of Auguſt, near our 5 o'Clock in the Morning; but inviſible here, by Reaſon of the Moon's Parallax in Longitude.

In Latitude $67\frac{1}{2}$ Degrees North, and $112\frac{1}{2}$ Degrees Eaſt Longitude from London, the Sun will be centrally and annularly eclipſed on the Meridian at half an Hour paſt our 4 o'Clock in the Morning.

On February the 18th, there will happen an Occultation of the Planet Saturn by the Moon; the Immerſion will be $10\frac{1}{2}$ Minutes paſt 9 at Night, and the Emerſion at 5 Minutes paſt 10.

January.

Days	
1	☌ ☿ ☽ 10h.
1	☌ ☉ ☽ 12h.
2	☽ in Perigeo.
6	☌ ☉ ☿ 22h.
8	☿ in ♒.
9	☌ ♃ ☽ 16h.
16	☽ in Apogeo.
19	☉ in ♒ 15h. 10m.
20	☌ ♂ ☽ 8h.
20	☿ in Aphelio.
22	☌ ♄ ☽ 7h.
29	☽ in Perigeo.
30	☌ ☿ ☽ 12h.
30	☌ ☉ ☽ 23h.
31	☌ ☿ ☽ 9h.

February.

Days	
6	☌ ♃ ☽ 3h.
8	☌ ☉ ☿ 18h.
12	☽ in Apogeo.
16	☌ ♂ ☽ 1h.
18	☉ in ♓ 6h. 3m. Apparent time.
18	☌ ♄ ☽ 11h.
21	☌ ☿ ☿ 21h.
26	☿ in ♒
26	☽ in Perigeo.

March.

Days	
1	☌ ☉ ☽ 10h.
2	☌ ☿ ☽ 9h.
2	☌ ☿ ☽ 16h.
3	☿ in Perihelio.
5	☌ ♃ ☽ 20h.
7	☿ Elong. max. à ☉ Vesp. 18° 13′ sets 1h. 48m. after him.
12	☽ in Apogeo.
14	☌ ☿ ☿ 3h.
14	☌ ♂ ☽ 13h.
17	☌ ♄ ☽ 14h.
20	☉ in ♈ 6h. 33m.
23	☌ ☉ ☿ 23h.
26	☽ in Perigeo.
30	☌ ☿ ☽ 1h.
30	☌ ☉ ☽ 21h.

April.

Days	
1	☌ ☿ ☽ 12h.
2	☌ ♃ ☽ 15h.
6	☿ in ♒
8	☽ in Apogeo.
10	☿ in ♒
10	☌ ♂ ☽ 15h.
13	☌ ♄ ☽ 18h.
16	☿ in Aphelio.
16	☌ ♃ ☿ 16h.
19	☉ in ♉ 19h. 24 m.
21	☿ Elong. max. à ☉ Mat. 27° 10′, rises 32m. before him.
22	☽ in Perigeo.
27	☌ ☿ ☽ 6h.
29	☌ ☉ ☽ 8h.
30	☌ ♃ ☽ 12h.

May.

Days	
1	☌ ☿ ☽ 16h.
6	☽ in Apogeo.
8	☌ ♂ ☽ 10h.
11	☌ ♄ ☽ 0h.
12	☿ in Perihelio.
19	☌ ☉ ♃ 14h.
19	☉ in ♊ 20h. 4m.
20	☽ in Perigeo.
25	☿ in ♒
25	☌ ♃ ☿ 10h.
28	☌ ♃ ☽ 7h.
28	☌ ☿ ☽ 20h.
28	☌ ☉ ☿ 21h.
28	☌ ☉ ☽ 21h.
30	☿ in Perihelio.
31	☌ ☿ ☽ 23h.

June.

Days	
3	☽ in Apogeo.
5	☌ ♂ ☽ 17h.
7	☌ ♄ ☽ 8h.
16	☽ in Perigeo.
21	☉ in ♋ 4h. 50m.
25	☌ ♃ ☽ 2h.
27	☌ ☉ ☽ 10h.
29	☌ ☿ ☽ 18h.
30	☽ in Apogeo.

Speculum Phænomenorum ad Annum 1775.

Days	July.
1	☌ ☿ ☽ 4h.
2	☿ in ♋
4	☌ ♂ ☽ 4h.
4	☌ ♄ ☽ 18h.
4	☿ Elong. max. à ☉
—	Vesp. 26° 8′ sets. 1h.
—	18m. after him.
13	☿ in Aphelio.
14	☽ in Perigeo.
17	☌ ♄ ☍ 5h.
22	☉ in ♌ 15h. 39m.
22	☌ ♃ ☽ 18h.
27	☌ ☉ ☽ 1h.
27	☌ ☿ ☽ 15h.
28	☽ in Apogeo.
29	☿ in ♋
31	☌ ☿ ☽ 5h.
31	☌ ☉ ☿ 7h.

Days	August.
1	☌ ♄ ☽ 4h.
1	☌ ♂ ☽ 19h.
10	☽ in Perigeo.
12	☌ ♄ ☿ 11h.
15	☿ Elong. max. à ☉
—	Vesp. 45° 57′ sets
—	1h. 11m. after him.
18	☿ Elong. max. à ☉
—	Mat. 18° 26′ rises
—	1h. 41m. before him.
19	☌ ♃ ☽ 10h.
21	☿ in ♌
22	☉ in ♍ 21h. 56m.
24	☌ ☿ ☽ 4h.
24	☽ in Apogeo.

Days	August.
25	☌ ☉ ☽ 17h.
26	☿ in Perihelio.
28	☌ ♄ ☽ 14h.
29	☌ ☿ ☽ 18h.
30	☌ ♂ ☽ 12h.

Days	September.
2	☿ in Aphelio.
7	☽ in Perigeo.
12	☌ ☉ ☿ 10h.
15	☌ ♃ ☽ 23h.
21	☽ in Apogeo.
22	☉ in ♎ 18h. 18m.
24	☌ ☉ ☽ 9h.
24	☌ ♄ ☿ 6h.
25	☌ ♄ ☽ 3h.
25	☌ ☿ ☽ 6h.
27	☌ ☿ ☽ 7h.
28	☌ ♂ ☽ 6h.
29	☿ in ♋

Days	October.
4	☽ in Perigeo.
4	☌ ☉ ♄ 22h.
9	☿ in Aphelio.
13	☌ ♃ ☽ 9h.
18	☽ in Apogeo.
22	☌ ♄ ☽ 17h.
23	☉ in ♏ 2h. 7m.
24	☌ ☉ ☽ 1h.
24	☌ ☿ ☽ 1h.
24	☌ ☉ ☿ 4h.
25	☌ ☿ ☽ 22h.
27	☌ ♂ ☽ 1h.
29	☿ Elong. max. à ☉
—	Vesp. 23° 27′ sets
—	35 min. after him.

Days	November.
1	☽ in Perigeo.
9	☌ ♃ ☽ 15h.
14	☽ in Apogeo.
17	☿ in ♐
19	☌ ☉ ☿ 4h.
19	☌ ♄ ☽ 7h.
19	☌ ☿ ☽ 20h.
20	☿ in ♐
21	☉ in ♐ 22h. 15m.
22	☌ ♂ ☽ 1h.
22	☿ in Aphelio.
22	☌ ☉ ☽ 14h.
24	☌ ♂ ☽ 22h.
29	☽ in Perigeo.

Days	December.
6	☌ ♃ ☽ 18h.
7	☿ Elong. max. à ☉
—	Mat. 20° 50′ rises
—	2h. 4m. before him.
12	☽ in Apogeo.
16	☌ ♄ ☽ 21h.
18	☌ ☿ ☽ 13h.
20	☌ ☿ ☽ 20h.
21	☉ in ♑ 10h. 33m.
22	☌ ☉ ☽ 3h.
23	☌ ♂ ☽ 19h.
23	☿ in Perihelio.
25	☿ in ♐
26	☽ in Perigeo.

A Table of the Eclipses of JUPITER's first Satelles, reduced to correct or apparent Time, 1775. White.

JANUARY.

Emersions.			
d.	h.	m.	s.
2	0	0	43
3	18	28	45
5	12	56	48
7	7	24	54
9	1	53	4
10	20	21	18
12	14	49	26
14	9	17	40
16	3	45	56
17	22	14	17
19	16	42	34
21	11	11	0
23	5	39	26
25	0	7	55
26	18	36	26
28	13	5	4
30	7	33	44

FEBRUARY.

Emersions.			
1	2	2	21
2	20	31	6
4	14	59	50
6	9	28	40
8	3	57	30
9	22	26	24
11	16	55	21
13	11	24	19
15	5	53	18
17	0	22	22
18	18	51	25
20	13	20	36
22	7	49	44
24	2	18	58
25	20	48	11
27	15	17	25

MARCH.

Emersions.			
d.	h.	m.	s.
1	9	46	38
3	4	15	57
4	22	45	15
6	17	14	39
8	11	44	0
10	6	13	24
12	0	42	47
13	19	12	12
15	13	41	38
17	8	11	4
19	2	40	32
20	21	9	58
22	15	39	25
24	10	8	51
26	4	38	18
27	23	7	44
29	17	37	13
31	12	6	36

APRIL.

Emersions.			
2	6	36	0
4	1	5	26
5	19	34	49
7	14	4	13
9	8	33	35
11	3	3	0
12	21	32	9
14	16	1	37
16	10	30	53
18	5	0	9

4 near ☉

JUNE.

Immersions.			
d.	h.	m.	s.
13	18	11	38
15	12	39	50
17	7	8	4
19	1	36	22
20	20	4	38
22	14	32	54
24	9	1	9
26	3	29	25
27	21	57	40
29	16	25	55

JULY.

Immersions.			
1	10	54	24
3	5	22	31
4	23	50	47
6	18	19	6
8	12	47	26
10	7	15	47
12	1	44	7
13	20	12	28
15	14	40	50
17	9	9	15
19	3	37	41
20	22	6	9
22	16	34	35
24	11	3	4
26	5	31	34
28	0	0	5
29	18	28	37
31	12	57	13

AUGUST.

Immersions.			
d.	h.	m.	s.
2	7	25	47
4	1	54	24
5	20	23	2
7	14	51	47
9	9	20	28
11	3	49	12
12	22	17	59
14	16	46	44
16	11	15	36
18	5	44	24
20	0	13	13
21	18	42	6
23	13	11	2
25	7	39	54
27	2	8	53
28	20	37	49
30	15	6	46

SEPTEMBER.

Immersions.			
1	9	35	44
3	4	4	44
4	22	33	41
6	17	2	42
8	11	31	44
10	6	0	44
12	0	29	47
13	18	58	48
15	13	27	52
17	7	56	54
19	2	25	55
20	20	54	56
22	15	23	57
24	9	52	58
26	4	21	57
27	22	50	57
29	17	19	57

A Table of the Eclipſes of JUPITER's firſt Satelles, reduced to correct or apparent Time, 1775. White.

OCTOBER. Immerſions.			
d.	h.	m.	s.
1	11	48	56
3	6	17	55
5	0	46	49
6	19	15	45
8	13	44	39
10	8	13	34
12	2	42	25
13	21	11	15
15	15	40	4
17	10	8	50
19	4	37	36
20	23	6	17
22	17	34	57
24	12	3	36

OCTOBER Immerſions.			
d.	h.	m.	s.
26	6	32	11
28	1	0	44
29	19	29	14
31	13	57	44

NOVEMBER Immerſions.			
2	8	26	10
4	2	54	37
5	21	22	58
7	15	51	22
9	10	19	38
11	4	47	56
12	23	16	9

NOVEMBER. Immerſions.			
d.	h.	m.	s.
14	17	44	22
16	12	12	30
18	6	40	40
20	1	8	44
21	19	36	45
23	14	4	47
25	8	32	42
27	3	0	38
28	21	28	34
30	15	56	28

DECEMBER. Immerſions.			
2	10	24	21
4	4	52	11
5	23	20	0
7	17	47	46

DECEMBER. Emerſions.			
d.	h.	m.	s.
9	14	25	31
11	8	53	19
13	3	21	4
14	21	48	50
16	16	16	35
18	10	44	20
20	5	12	5
21	23	39	49
23	18	7	33
25	12	35	19
27	7	3	7
29	1	30	56
30	19	58	44

The Times of the Eclipſes contained in this Table, are adapted to the Meridian of the ROYAL OBSERVATORY near LONDON, and afford an excellent Method to diſcover the Longitude or Difference of Meridians, between that and any other Place whatſoever; which I ſhall illuſtrate by an EXAMPLE:

Suppoſe on the 11th Day of December this Year, the Time of the Emerſion of Jupiter's firſt Satelles be obſerved (by a Teleſcope) in an unknown Meridian, to happen at 11 h. 23 min. 19 ſec. at night; I find by the Table, that the Time of this Emerſion will happen (at the Britiſh Obſervatory) at 8 h. 53 min 19 ſec. the ſame Night: The Difference of the Times is 2 hours 30 min which being converted into Degrees and Minutes of the Equator, will make 37 deg. 30 min. the Longitude of the Place of Obſervation to the Eaſt; becauſe the Time is more than that at the Britiſh Obſervatory.

A Table

A TABLE of the Times of High-Water at LONDON-BRIDGE in the Morning and Afternoon of every Day in the Year 1775. White.

Mo Days	JANUARY. Morn. h.	m.	Aftern. h.	m.	Mo Days	FEBRUARY. Morn. h.	m.	Aftern. h.	m.	Mo Days	MARCH. Morn. h.	m.	Aftern. h.	m.	Mo Days	APRIL. Morn. h.	m.	Aftern. h.	m.
A	1	17	1	50	1	2	48	3	10	1	1	34	2	4	1	2	5[illegible]	3	12
2	2	19	2	49	2	3	28	3	46	2	2	9	2	53	A	3	2[illegible]	3	45
3	3	10	3	30	3	4	3	4	20	3	3	10	3	27	3	4	1	4	16
4	3	48	4	6	4	4	40	4	59	4	3	43	3	58	4	4	35	4	55
5	4	27	4	49	A	5	20	5	40	A	4	17	4	35	5	5	14	5	34
6	5	10	5	30	6	6	3	6	27	6	4	54	5	13	6	5	58	6	22
7	5	54	6	17	7	6	51	7	16	7	5	34	5	56	7	6	48	7	15
A	6	42	7	6	8	7	43	8	11	8	6	21	6	46	8	7	4[illegible]	8	11
9	7	34	8	2	9	8	43	9	15	9	7	12	7	39	A	8	4[illegible]	9	14
10	8	32	9	1	10	9	46	10	17	10	8	10	8	41	10	9	44	10	14
11	9	32	10	3	11	10	49	11	20	11	9	13	9	46	11	10	42	11	10
12	10	33	11	2	A	11	49			A	10	16	10	46	12	11	39		
13	11	32			13	0	18	0	43	13	11	16	11	46	1	0	[illegible]	0	33
14	0	2	0	28	14	1	[illegible]	1	31	14			0	12	14	0	58	1	22
A	0	55	1	19	15	1	54	2	17	15	0	38	1	2	15	1	46	2	10
16	1	44	2	7	16	2	38	2	55	16	1	26	1	48	A	2	34	2	53
17	2	31	2	48	17	3	10	3	25	17	2	12	2	32	17	3	11	3	28
18	3	6	3	20	18	3	40	3	54	18	2	52	3	8	18	3	45	4	2
19	3	35	3	48	A	4	7	4	25	A	3	24	3	39	19	4	20	4	42
20	4	1	4	17	20	4	44	5	2	20	3	54	4	11	20	5	5	5	28
21	4	33	4	50	21	5	20	5	42	21	4	28	4	47	21	5	52	6	23
A	5	8	5	23	22	6	5	6	33	22	5	8	5	32	22	6	54	7	28
23	5	37	6	5	23	7	1	7	33	23	5	56	6	25	A	8	3	8	39
24	6	33	6	59	24	8	6	8	45	24	6	55	7	29	24	9	15	9	50
25	7	25	7	58	25	9	22	10	3	25	8	3	8	41	25	10	25	10	59
26	8	30	9	7	A	10	41	11	20	A	9	20	9	58	26	11	32		
27	9	43	10	23	27	11	58			27	10	36	11	12	27	0	2	0	31
28	11	2	11	39	28	0	31	1	4	28	11	48			28	0	58	1	24
A			0	15						29	0	19	0	49	29	1	50	2	15
30	0	49	1	23						30	1	17	1	45	A	2	3[illegible]	2	56
31	1	54	2	25						31	2	11	2	36					

This Table may serve the following Places, by adding,

	h.	m.
For Tinmouth Haven, Hartle pool, *and* Amsterdam	0	30
Breft — — — — — — — —	1	0
Scilly — — — — — — — —	1	45
Mount's Bay — — — — — — —	1	55
Bridlington Pier *and* Humber — — —	2	0

A Table of the Times of High-Water at LONDON-BRIDGE, in the Morning and Afternoon of every Day in the Year 1775.

White.

Mo. Days	MAY. Morn. h.	m.	Aftern. h.	m.	Mo. Days	JUNE. Morn. h.	m.	Aftern. h.	m.	Mo. Days	JULY. Morn. h.	m.	Aftern. h.	m.	Mo. Days	AUGUST. Morn. h.	m.	Aftern. h.	m.
1	3	13	3	30	1	3	58	4	13	1	4	4	4	19	1	4	42	4	59
2	3	45	4	0	2	4	31	4	49	A	4	36	4	54	2	5	16	5	34
3	4	18	4	36	3	5	7	5	26	3	5	11	5	28	3	5	55	6	17
4	4	54	5	13	A	5	47	6	8	4	5	48	6	8	4	6	42	7	8
5	5	34	5	56	5	6	31	6	54	5	6	32	6	56	5	7	38	8	9
6	6	20	6	45	6	7	19	7	44	6	7	20	7	45	A	8	44	9	20
A	7	10	7	36	7	8	11	8	38	7	8	16	8	48	7	9	58	10	33
8	8	4	8	32	8	9	8	9	36	8	9	22	9	56	8	11	15	11	55
9	9	1	9	31	9	10	9	10	40	A	10	31	11	6	9			0	29
10	10	0	10	30	10	11	12	11	45	10	11	45			10	1	2	1	34
11	11	0	11	30	A			0	15	11	0	16	0	48	11	2	0	2	32
12	11	57			12	0	45	1	14	12	1	20	1	51	12	2	58	3	16
13	0	25	0	51	13	1	43	2	13	13	2	23	2	47	A	3	34	3	51
A	1	10	1	44	14	2	42	3	3	14	3	10	3	30	14	4	8	4	28
15	2	11	2	35	15	3	24	3	44	15	3	49	4	9	15	4	48	5	8
16	2	58	3	17	16	4	3	4	26	A	4	28	4	48	16	5	28	5	52
17	3	35	3	54	17	4	47	5	9	17	5	8	5	32	17	6	10	6	42
18	4	12	4	36	A	5	31	5	57	18	5	52	6	18	18	7	9	7	37
19	5	0	5	24	19	6	24	6	50	19	6	44	7	11	19	8	0	8	37
20	5	47	6	16	20	7	17	7	46	20	7	38	8	8	A	9	9	9	42
A	6	45	7	15	21	8	16	8	48	21	8	38	9	12	21	10	18	10	47
22	7	46	8	20	22	9	20	9	52	22	9	43	10	14	22	11	18	11	48
23	8	52	9	26	23	10	24	10	55	A	10	46	11	17	23			0	18
24	9	58	10	29	24	11	26	11	55	24	11	47			24	0	43	1	8
25	11	0	11	31	A			0	23	25	0	15	0	42	25	1	31	1	53
26			0	2	26	0	49	1	15	26	1	8	1	33	26	2	15	2	36
27	0	29	0	55	27	1	39	2	3	27	1	58	2	22	A	2	52	3	8
A	1	21	1	46	28	2	26	2	48	28	2	41	2	59	28	3	21	3	37
29	2	10	2	34	29	3	5	3	21	29	3	14	3	28	29	3	51	4	4
30	2	52	3	10	30	3	36	3	50	A	3	42	3	56	30	4	21	4	38
31	3	27	3	43						31	4	11	4	26	31	4	55	5	13

Adding,	h.	m.
For Fowey, Loo *and* Plymouth — — — —	3	10
Dartmouth, Harborough *and* Hull — —	3	30
Torbay *and* Tinmouth — — — — —	3	40
Exmouth, Topsham *and* Lime — — —	3	50
Weymouth — — — — — — —	4	2
Bridgewater *and* Texel — — — — —	4	40
Portland and Hartflew — — — — —	5	5

A Table of the Times of High-Water at LONDON-BRIDGE in the Morning and Afternoon of every Day in the Year 1775. White.

Mo. Days	SEPTEMBER. Morn. h.	m.	Aftern. h.	m.	Mo. Days	OCTOBER. Morn. h.	m.	Aftern. h.	m.	Mo. Days	NOVEMBER. Morn. h.	m.	Aftern. h.	m.	Mo. Days	DECEMBER. Morn. h.	m.	Aftern h.	m.
1	5	34	5	55	A	6	15	6	44	1	8	19	8	54	1	8	58	9	32
2	6	22	6	49	2	7	17	7	49	2	9	30	10	6	2	10	4	10	37
A	7	20	7	51	3	8	27	9	5	3	10	38	11	10	A	11	8	11	38
4	8	28	9	6	4	9	43	10	21	4	11	44			4			0	7
5	9	47	10	28	5	10	57	11	33	A	0	18	0	46	5	0	37	1	4
6	11	7	11	45	6			0	5	6	1	14	1	40	6	1	31	1	57
7			0	10	7	0	37	1	6	7	2	6	2	29	7	2	22	2	42
8	0	53	1	23	A	1	35	2	3	8	2	51	3	9	8	3	2	3	19
9	1	52	2	19	9	2	30	2	50	9	3	26	3	42	9	3	36	3	52
A	2	46	3	5	10	3	9	3	26	10	3	58	4	17	A	4	7	4	24
11	3	23	3	39	11	3	43	4	0	11	4	37	4	50	11	4	42	5	0
12	3	54	4	13	12	4	16	4	36	A	5	15	5	36	12	5	18	5	38
13	4	32	4	52	13	4	56	5	16	13	5	58	6	22	13	5	59	6	21
14	5	12	5	33	14	5	36	6	1	14	6	47	7	12	14	6	44	7	6
15	5	56	6	21	A	6	26	6	53	15	7	37	8	5	15	7	28	7	54
16	6	47	7	15	16	7	20	7	49	16	8	32	9	1	16	8	21	8	46
A	7	44	8	15	17	8	18	8	49	17	9	30	9	59	A	9	18	9	48
18	8	47	9	19	18	9	20	9	49	18	10	28	10	56	18	10	18	10	48
19	9	52	10	22	19	10	18	10	47	A	11	23	11	56	19	11	19	11	50
20	10	52	11	20	20	11	16	11	44	20			0	16	20			0	21
21	11	51			21			0	11	21	0	42	1	7	21	0	50	1	19
22	0	16	0	41	A	0	35	0	59	22	1	33	1	59	22	1	48	2	17
23	1	5	1	28	23	1	22	1	44	23	2	24	2	48	23	3	41	3	7
A	1	57	2	13	24	2	7	2	31	24	3	7	3	25	A	3	24	3	44
25	2	32	2	57	25	2	48	3	6	25	3	42	4	0	25	4	0	4	22
26	3	7	3	22	26	3	23	3	40	A	4	22	4	44	26	4	45	5	7
27	3	37	3	51	27	3	56	4	12	27	5	6	5	29	27	5	29	5	52
28	4	7	4	24	28	4	34	4	56	28	5	56	6	24	28	6	18	6	45
29	4	44	5	4	A	5	19	5	42	29	6	52	7	21	29	7	12	7	39
30	5	25	5	46	30	6	17	6	41	30	7	53	8	25	30	8	10	8	41
					31	7	12	7	44						A	9	14	9	48

Subtract.	h.	m.
For Leigh, Maes, *and* Gouries Gut — — — —	0	5
Gravesend, Rochester, *and* Rammekins — — —	1	20
Buoy of the Nore *and* Flushing — — — — —	1	30
Portsmouth, Ostend, Shoe-Becon, *and* Red-Sand	2	0
Harwich, Dover, Spithead, *and* Calais — — —	3	0
Gunfleet, Hastings, Shoreham, Orfordness, *and* Diep —	4	0
Yarmouth Pier *and* Needle — — — — — —	4	40
St. Helen's *and* Havre-de-Grace — — — — —	5	30

A Table of the Sun's semi-diurnal Arches, or Times of his visible half Tarriance above the Horizon. White.

The Sun's Declination North.

Degr.	Lat. 49		Lat. 50		Lat. 51		Lat. 52		Lat. 53		Lat. 54	
	h.	m.	h.	m.	h.	m.	h.	m.	h.	m.	h.	m
0	6	4	6	4	6	4	6	4	6	4	6	4
1	6	8	6	8	6	8	6	9	6	9	6	9
2	6	12	6	13	6	13	6	14	6	14	6	15
3	6	17	6	18	6	18	6	19	6	19	6	20
4	6	22	6	22	6	22	6	24	6	25	6	25
5	6	26	6	27	6	27	6	29	6	30	6	31
6	6	31	6	32	6	33	6	34	6	36	6	37
7	6	36	6	37	6	38	6	40	6	41	6	43
8	6	41	6	42	6	43	6	45	6	47	6	48
9	6	45	6	47	6	48	6	50	6	52	6	54
10	6	50	6	52	6	54	6	56	6	58	7	0
11	6	55	6	57	6	59	7	1	7	3	7	6
12	7	0	7	2	7	4	7	7	7	9	7	12
13	7	5	7	7	7	10	7	12	7	15	7	18
14	7	10	7	13	7	15	7	18	7	21	7	24
15	7	15	7	18	7	21	7	24	7	27	7	31
16	7	21	7	24	7	27	7	30	7	33	7	37
17	7	26	7	29	7	33	7	36	7	40	7	44
18	7	31	7	35	7	38	7	42	7	46	7	51
19	7	37	7	41	7	45	7	49	7	53	7	58
20	7	43	7	47	7	51	7	55	8	0	8	5
21	7	49	7	53	7	57	8	2	8	7	8	12
22	7	55	7	59	8	4	8	9	8	14	8	20
23	8	1	8	6	8	11	8	16	8	22	8	28
24	8	7	8	12	8	18	8	24	8	30	8	36

By these Tables the Times of the Sun's Rising and Setting may be found, in any Part of the Kingdom of *Great-Britain* or *Ireland*, after the following Manner: Where the Latitude of the Place is known, take the Sun's Declination out of the Table, on the Noon of the Day you desire to know the Time of his Rising and Setting; and with it, according as it is either North or South, enter these Tables in the Left-

A Table of the Sun's semi-diurnal Arches, or Times of his visible half Tarriance above the Horizon. White.

The Sun's Declination South.

Degr.	Lat. 49		Lat. 50		Lat. 51		Lat. 52		Lat. 53		Lat. 54	
	h.	m.	h.	m.	h.	m.	h.	m.	h.	m.	h.	m.
0	6	4	6	4	6	4	6	4	6	4	6	4
1	5	59	5	59	5	58	5	58	5	58	5	58
2	5	54	5	54	5	53	5	53	5	53	5	53
3	5	49	5	49	5	49	5	48	5	48	5	47
4	5	45	5	44	5	44	5	43	5	42	5	42
5	5	40	5	39	5	39	5	38	5	37	5	36
6	5	35	5	35	5	34	5	33	5	31	5	30
7	5	31	5	30	5	29	5	27	5	26	5	25
8	5	26	5	25	5	23	5	22	5	21	5	19
9	5	21	5	20	5	18	5	17	5	16	5	13
10	5	17	5	15	5	13	5	11	5	10	5	8
11	5	12	5	10	5	8	5	6	5	4	5	2
12	5	7	5	5	5	3	5	0	4	58	4	56
13	5	2	5	0	4	57	4	55	4	52	4	50
14	4	57	4	54	4	52	4	49	4	47	4	44
15	4	52	4	49	4	46	4	44	4	41	4	37
16	4	46	4	43	4	41	4	38	4	34	4	31
17	4	41	4	38	4	35	4	32	4	28	4	23
18	4	36	4	33	4	29	4	26	4	22	4	18
19	4	30	4	27	4	23	4	19	4	15	4	11
20	4	25	4	21	4	17	4	13	4	9	4	4
21	4	19	4	15	4	11	4	6	4	2	3	57
22	4	13	4	9	4	4	4	0	3	55	3	50
23	4	7	4	2	3	58	3	53	3	47	3	42
24	4	1	3	56	3	51	3	46	3	40	3	34

Left-hand Column, under the Word Degrees; then look the Latitude of the Place in the Top of the Table; and in that Column, againſt the Sun's Declination, will be found the Time of his viſible half Tarriance above the Horizon, or Time of his Setting, correct by Refraction; then ſubtract the Time of his Setting from 12 Hours, the Remainder will be the Time of his Riſing; double the Time of his Setting, the

A Table of the Sun's semi-diurnal Arches, or Times of his visible half Tarriance above the Horizon. White

The Sun's Declination North.

Degr.	Lat. 55		Lat. 56		Lat. 57		Lat. 58		Lat. 59		Lat 60	
	h.	m.	h.	m.	h.	m.	h.	m.	h.	m.	h.	m.
0	6	4	6	4	6	4	6	4	6	4	6	4
1	6	9	6	10	6	10	6	10	6	11	6	11
2	6	15	6	16	6	16	6	17	6	17	6	18
3	6	21	6	22	6	22	6	23	6	24	6	25
4	6	27	6	28	6	29	6	30	6	31	6	32
5	6	32	6	34	6	35	6	36	6	38	6	39
6	6	38	6	40	6	41	6	43	6	44	6	46
7	6	44	6	46	6	48	6	49	6	51	6	53
8	6	50	6	52	6	54	6	56	6	58	7	1
9	6	56	6	58	7	1	7	3	7	5	7	8
10	7	2	7	5	7	7	7	10	7	13	7	16
11	7	8	7	10	7	14	7	17	7	20	7	23
12	7	15	7	18	7	21	7	34	7	27	7	31
13	7	21	7	24	7	28	7	31	7	35	7	39
14	7	28	7	31	7	35	7	39	7	43	7	47
15	7	34	7	39	7	42	7	46	7	51	7	56
16	7	41	7	45	7	49	7	54	7	59	8	4
17	7	48	7	52	7	57	8	1	8	7	8	13
18	7	55	8	0	8	5	8	10	8	16	8	22
19	8	2	8	7	8	13	8	19	8	25	8	32
20	8	10	8	15	8	21	8	28	8	35	8	42
21	8	18	8	24	8	30	8	37	8	45	8	53
22	8	26	8	32	8	39	8	47	8	55	9	4
23	8	34	8	41	8	49	8	57	9	6	9	16
24	8	43	8	51	8	59	9	8	9	18	9	29

the Sum will be the Length of the Day; and double the Time of his Rising, the Sum will be the Length of the Night. But if the Latitude of the Place, and Declination of the Sun, consist of Degrees and Minutes, then a small Allowance must be made for the Minutes in both Cases, which may be done by a Person of an ordinary Capacity by a mental Proportion only. Thus, to find the Time of the Sun's Rising and Setting at

A Table of the Sun's semi-diurnal Arches, or Times of his visible half Tarriance above the Horizon. White.

The Sun's Declination South.

Degr.	Lat. 55		Lat. 56		Lat. 57		Lat. 58		Lat. 59		Lat. 60	
	h.	m.	h.	m.	h.	m.	h.	m.	h.	m.	h.	m.
0	6	4	6	4	6	4	6	4	6	4	6	4
1	5	58	5	58	5	58	5	58	5	57	5	57
2	5	52	5	52	5	52	5	51	5	51	5	50
3	5	47	5	46	5	45	5	45	5	44	5	43
4	5	41	5	40	5	39	5	38	5	37	5	36
5	5	35	5	34	5	33	5	32	5	31	5	29
6	5	29	5	28	5	27	5	25	5	24	5	22
7	5	23	5	22	5	20	5	19	5	17	5	15
8	5	17	5	16	5	14	5	12	5	10	5	8
9	5	12	5	10	5	8	5	5	5	3	5	2
10	5	5	5	3	5	1	4	59	4	56	4	53
11	4	59	4	57	4	54	4	52	4	49	4	46
12	4	53	4	51	4	48	4	45	4	42	4	38
13	4	47	4	44	4	41	4	38	4	34	4	30
14	4	41	4	37	4	34	4	30	4	27	4	23
15	4	34	4	31	4	27	4	23	4	19	4	14
16	4	27	4	24	4	20	4	15	4	11	4	6
17	4	21	4	17	4	12	4	8	4	3	3	57
18	4	14	4	9	4	5	4	0	3	54	3	48
19	4	7	4	2	3	56	3	51	3	45	3	39
20	3	59	3	54	3	49	3	43	3	36	3	29
21	3	52	3	46	3	40	3	34	3	27	3	19
22	3	44	3	38	3	31	3	24	3	17	3	9
23	3	36	3	29	3	23	3	15	3	6	2	57
24	3	27	3	20	3	13	3	5	2	55	2	45

at Aberdeen in Scotland, on the Longeſt Day, the Latitude of that Place is accounted 57 Degr. 7 Min. North, and the Sun's Declination 23 Deg. 29 Min. likewiſe North. By theſe you will find by the Table, that 4 Min. for the Sun's Declination, and 1 Min. for the Latitude of the Place, are both, to be added to 8 Hours 50 Min. the Time belonging to 57 Degr. of Latitude and 23 Degr. of North Declination, and the Sum will be 8 Hours 55 Min. the Time of his apparent Setting at Aberdeen, on the longeſt Day, whoſe Complement to 12 Hours, viz. 3 Hours 5 Min. will be the Time of his Riſing, &c.

A TABLE of the right Aſcenſions in Time, Semidiurnal Arches, Declinations, and Magnitudes of 30 remarkable fixed Stars, with their Names, and BAYER's Literal References, as they ſtand in Mr. FLAMSTEED's Catalogue. Exactly rectified to the Beginning of the Year 1772.

The NAMES of STARS.	Bay. Ch.	R. Aſcen. h. m. s.	Semidiur. Arches. h. m. s.	Declination. d. m. s.	Magn.
The Southern Star, in Andromeda's Girdle, Mirach.	β	0 56 39	10 6 20	34 12 35 N	2
The bright one in her left Foot, Alamack.	γ	1 49 54	ſets not.	41 12 17 N	2 3
The unformed Star above the Ram's Head.	α	1 54 10	8 9 13	22 21 24 N	2
In the Head of Meduſa, Algol	β	2 53 12	ſets not.	40 2 3 N	2 3
In Perſeus's right Side, Alganib.	α	3 7 56	ſets not.	49 1 24 N	2 3
The Middle and brighteſt of the 7 Stars.	η	3 33 50	8 16 26	23 22 15 N	3
The Bull's South Eye, Aldebaran.	α	4 22 43	7 28 44	16 1 33 N	1
In the left Shoulder of Auriga, Capella.	α	4 59 40	ſets not.	45 45 37 N	1
The left Foot of Orion, Rigel.	β	5 3 28	5 20 27	8 29 5 S	1
The middle Star in his Girdle	ε	5 24 30	5 56 45	1 22 7 S	2
In his right Shoulder, Betelgeuſe.	α	5 42 42	6 41 2	7 20 52 N	1
In the great Dog's Mouth, Sirius.	α	6 35 3	4 37 18	16 22 39 S	1
In the Head of the 1ſt Twin, Caſtor and Pollux	α	7 19 55	9 38 52	32 23 3 N	1
In the leſſer Dog's Thigh, Procyon.	α	7 27 16	6 33 12	5 49 47 N	1 2
In the Head of the 2d Twin, Pollux or Hercules	β	7 31 14	8 58 42	28 34 38 N	2
Hydra's Heart, Alphard.	α	9 10 13	5 24 47	7 39 35 S	2
The Lion's Heart, Regulus.	α	9 56 8	7 11 54	13 5 25 N	1
In the Extremity of his Tail, Denеb.	β	11 37 23	7 27 48	15 51 52 N	1 2
In the Virgin's right Wing, Vindemiatrix.	ε	12 50 45	7 7 1	12 12 5 N	3
In her left Hand, Ariſta.	α	13 13 6	5 12 50	9 56 46 S	1
Between the Thighs of Bootes, Arcturus.	α	14 5 12	7 56 13	20 26 35 N	0
In the Southern Scale of Libra.	α	14 38 13	4 44 56	15 4 2 S	2
In the Northern Scale of Libra.	β	15 4 41	5 10 16	8 31 10 S	2
The Bright Star in the Northern Crown.	α	15 24 58	8 49 3	27 30 3 N	2 3
The Scorpion's Heart, Antares.	α	6 15 20	3 34 18	25 53 59 S	1
In the Head of Serpentarius.	α	17 24 12	7 9 56	12 44 10 N	2
Bright Star in the Harp Lyra.	α	18 29 -	ſets not.	38 34 14 N	1
Bright Star in the Eagle, Atair.	α	19 39 26	6 45 47	8 15 23 N	1 2
In the Mouth of the Southern Fiſh, Egmalhant.	α	22 44 47	2 51 37	30 50 27 S	2 1
In the Wing of Pegaſus, Markab	α	20 53 15	7 16 43	31 56 51 N	2

A TABLE of the SUN's right Aſcenſion in Time, exactly calculated according to the greateſt Obliquity of the Ecliptic 23 Deg 29 Min.

Deg.	♈			♉			♊			♋			♌			♍		
	h.	m.	s.	h.	m.	s.	h.	m.	s.	h.	m.	s.	h.	m.	s.	h.	m.	s.
0	0	0	0	1	51	37	3	51	14	6	0	0	8	8	46	10	8	23
1	0	3	40	1	55	26	3	55	25	6	4	22	8	12	55	10	12	12
2	0	7	20	1	59	16	3	59	35	6	8	43	8	17	4	10	16	1
3	0	11	0	2	3	7	4	3	47	6	13	5	8	21	12	10	19	49
4	0	14	41	2	6	58	4	7	59	6	17	26	8	25	20	10	23	36
5	0	18	21	2	10	50	4	12	12	6	21	48	8	29	26	10	27	23
6	0	22	2	2	14	43	4	16	25	6	26	9	8	33	32	10	31	9
7	0	25	42	2	18	36	4	20	40	6	30	30	8	37	38	10	34	55
8	0	29	23	2	22	30	4	24	54	6	34	51	8	41	42	10	38	40
9	0	33	4	2	26	24	4	29	9	6	39	11	8	45	46	10	42	25
10	0	36	45	2	30	20	4	33	25	6	43	32	8	49	49	10	46	10
11	0	40	26	2	34	16	4	37	41	6	47	52	8	53	52	10	49	54
12	0	44	8	2	38	12	4	41	58	6	52	12	8	57	53	10	53	37
13	0	47	49	2	42	9	4	46	16	6	56	31	9	1	54	10	57	21
14	0	51	31	2	46	8	4	50	33	7	0	50	9	5	54	11	1	4
15	0	55	14	2	50	6	4	54	51	7	5	9	9	9	54	11	4	46
16	0	58	56	2	54	6	4	59	10	7	9	27	9	13	52	11	8	29
17	1	2	39	2	58	6	5	3	29	7	13	44	9	17	51	11	12	11
18	1	6	23	3	2	7	5	7	48	7	18	2	9	21	48	11	15	52
19	1	10	6	3	6	8	5	12	8	7	22	19	9	25	44	11	19	34
20	1	13	50	3	10	11	5	16	28	7	26	35	9	29	40	11	23	15
21	1	17	35	3	14	14	5	20	49	7	30	51	9	33	36	11	26	56
22	1	21	20	3	18	18	5	25	9	7	35	6	9	37	30	11	30	37
23	1	25	5	3	22	22	5	29	30	7	39	20	9	41	24	11	34	18
24	1	28	51	3	26	28	5	33	51	7	43	35	9	45	17	11	37	58
25	1	32	37	3	30	34	5	38	12	7	47	48	9	49	10	11	41	39
26	1	36	24	3	34	40	5	42	34	7	52	1	9	53	2	11	45	19
27	1	40	11	3	38	48	5	46	55	7	56	13	9	56	53	11	49	0
28	1	43	59	3	42	56	5	51	17	8	0	25	10	0	44	11	52	40
29	1	47	48	3	47	5	5	55	38	8	4	35	10	4	34	11	56	20
30	1	51	37	3	51	14	6	0	0	8	8	46	10	8	23	12	0	0

A TABLE of the SUN's right Aſcenſion in Time, exactly calculated according to the greateſt Obliquity of the Ecliptic 23 Deg. 29 Min.

Degr.	♎			♏			♐			♑			♒			♓		
	h.	m.	s.	h.	m.	s.	h.	m.	s.	h.	m.	s.	h.	m.	s.	h.	m.	s.
0	12	0	0	13	51	37	15	51	14	18	0	0	20	8	46	22	8	23
1	12	3	40	13	55	26	15	55	25	18	4	22	20	12	55	22	12	12
2	12	7	20	13	59	16	15	59	35	18	8	43	20	17	4	22	16	1
3	12	11	0	14	3	17	16	3	47	18	13	5	20	21	12	22	19	49
4	12	14	41	14	6	58	16	7	59	18	17	26	20	25	20	22	23	36
5	12	18	21	14	10	50	16	12	12	18	21	48	20	29	26	22	27	23
6	12	22	2	14	14	43	16	16	25	18	26	9	20	33	32	22	31	9
7	12	25	42	14	18	36	16	20	40	18	30	30	20	37	38	22	34	55
8	12	29	23	14	22	30	16	24	54	18	34	51	20	41	42	22	38	40
9	12	33	4	14	26	24	16	29	9	18	39	11	20	45	46	22	42	25
10	12	36	45	14	30	20	16	33	25	18	43	32	20	49	49	22	46	10
11	12	40	26	14	34	16	16	37	41	18	47	52	20	53	52	22	49	54
12	12	44	8	14	38	12	16	41	58	18	52	12	20	57	53	22	53	37
13	12	47	49	14	42	9	16	46	16	18	56	31	21	1	54	22	57	21
14	12	51	31	14	46	8	16	50	33	19	0	50	21	5	54	23	1	4
15	12	55	14	14	50	6	16	54	51	19	5	9	21	9	54	23	4	44
16	12	58	56	14	54	6	16	59	10	19	9	27	21	13	52	23	8	29
17	13	2	39	14	58	6	17	3	29	19	13	44	21	17	51	23	12	11
18	13	6	23	15	2	7	17	7	48	19	18	2	21	21	48	23	15	52
19	13	10	6	15	6	8	17	12	8	19	22	19	21	25	44	23	19	34
20	13	13	50	15	10	11	17	16	28	19	26	35	21	29	40	23	23	15
21	13	17	35	15	14	14	17	20	49	19	30	51	21	33	36	23	26	56
22	13	21	20	15	18	18	17	25	9	19	35	6	21	37	30	23	30	37
23	13	25	5	15	22	22	17	29	30	19	39	20	21	41	24	23	34	18
24	13	28	51	15	26	28	17	33	51	19	43	35	21	45	17	23	37	58
25	13	32	37	15	30	34	17	38	12	19	47	48	21	49	10	23	41	39
26	13	36	24	15	34	40	17	42	34	19	52	1	21	53	2	23	45	19
27	13	40	11	15	38	48	17	46	55	19	56	13	21	56	53	23	49	0
28	13	43	59	15	42	56	17	51	17	20	0	25	22	0	44	23	52	40
29	13	47	48	15	47	5	17	55	38	20	4	35	22	4	34	23	56	20
30	13	51	37	15	51	14	18	0	0	20	8	46	22	8	23	24	0	0

The Use of the TABLE of the fixed STARS, and of the SUN's right Ascension in Time.

THE Time of the Southing or Meridian Transits of the tabulated fixed Stars may be very exactly found after this Manner:

On the Noon of the Day, preceding the Night in which you desire to know the Time of the Southing of any of these Stars, find by the EPHEMERIS the SUN's Place, and with it take out of the Table his right Ascension in Time. This you may do to a Minute by Inspection, which will be sufficient for your present Purpose: Then from the right Ascension of the Star, as it is placed in the Table, subtract the right Ascension of the SUN, the Remainder will be the estimate Time of the Star's Southing, and will not differ from the true Time above two or three Minutes at farthest, which may be near enough for ordinary Uses: But if Exactness is required, then reduce the SUN's Place to this estimate Time, and take out of the Table his right Ascension in Hours, Minutes, and Seconds, and subtract it from that of the Star, the remaining Numbers will shew the true Time of the Star's Culmination or Southing. And if from the Time of the Star's Southing you subtract the semi-diurnal Arch belonging to it, the Remainder will be the Time of the Star's visible Rising; and being added to it, the Sum will be the Time of its visible Setting.

EXAMPLE of SIRIUS, Jan. 9, 1775.

	h.	m.	s.
Place of the Sun at Noon — — — —	♑	19	10
Right Ascension of SIRIUS — — —	6	35	3
Right Ascension of the Sun subtract — — —	19	23	1
Estimate Time of the Star's Southing — — —	11	12	2
Right Ascension of the Sun at that Time subtract — —	19	24	27
True Time of the Star's Southing — — —	11	11	36
Semidiurnal Arch subtract and add — — —	4	37	18
True Time of the Star's Visible Rising Aftern. — —	6	34	18
True Time of the Star's visible Setting — — —	15	48	54

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