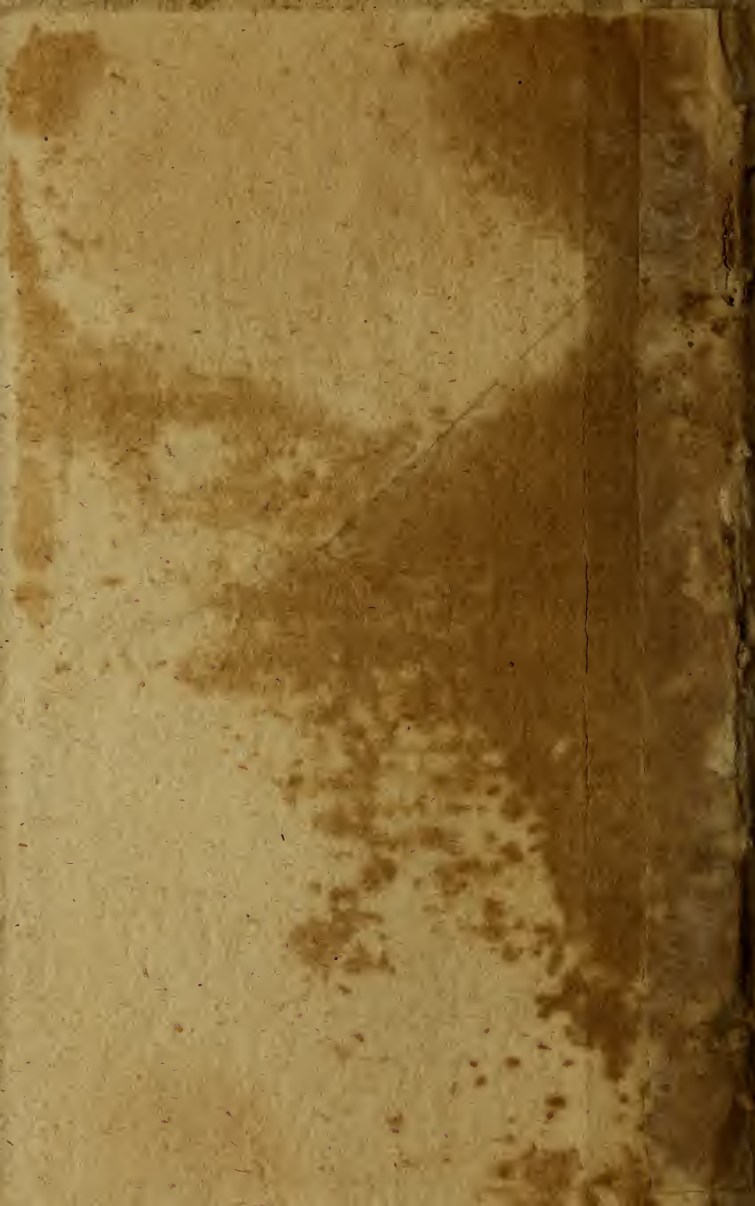


1774



ΑΤΛΑΣ ΟΥΡΑΝΙΟΣ

The COELESTIAL ATLAS;

OR, A NEW

E P H E M E R I S

For the YEAR of our LORD 1774.

Being the Second after

BISSEXTILE, or LEAP-YEAR.

Wherein are contained

The Heliocentrick and Geocentrick Places of the Planets, the ECLIPSES of the Luminaries, and other remarkable PHENOMENA 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.

A L S O

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 ἄγριοι διηγήσονται δεξάν Θεῶ.

The TWENTY-FIFTH IMPRESSION.

L O N D O N :

Printed by R. HETT, for the Company of

S T A T I O N E R S .

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Chronological Notes for the Year 1774

Golden Number	8	Septuagesima Sunday	Jan. 30
Cycle of the Sun	19	Shrove Sunday	Feb. 13
The Epact	17	Easter Day	April 3
Dominical Letter	B	Whit Sunday	May 22
Number of Direction	13	Trinity Sunday	May 29
Roman Indiction	7	Advent Sunday	Nov. 27

Astronomical CHARACTERS explained.

♈ Aries	♋ Cancer	♎ Libra	♏ Capricorn
♉ Taurus	♌ Leo	♍ Scorpio	♐ Aquarius
♊ Gemini	♍ Virgo	♎ Sagittary	♑ Pisces
♄ Saturn	☉ Sol (the Sun)	☾ Luna (the Moon)	☽ Tellus, Terra (or the Earth)
♃ Jupiter	♀ Venus	♁ Moon's N. Node	
♂ Mars	☿ Mercury	♂ her S. Node	

♌ Conjunction when Planets are in the same Sign, Deg. Min. &c.
 * Sextile when 2 Signs dist. | Δ Trine when 4 Signs dist.
 □ Quartile when 3 Signs dist. | ♂ Opposition when 6 Signs dist.

Of the Four Quarters of the YEAR 1774.

THE Spring Quarter begins on the 20th Day of March, at 44 Minutes past Noon.

The Summer Quarter begins June 21st, 1 Minute past 11 in the Morning.

The Autumnal Quarter begins September 22, 28 Minutes past Midnight.

The Winter Quarter begins December 21st, 47 Minutes past 4 at Night.

THE beautiful Planet VENUS is an Evening Star to the 22d Day of March; at which Time she becomes a Morning Star, and so continues to the Year's End.

JUPITER is an Evening Star until the 11th Day of April, and after that Time he will be a Morning Star, until the 3d Day of November, 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 Appaise unto; taken from Mr. FLAMSTED'S HISTORIA COELESTIS, and rectified to the Beginning of the Year 1760.

Constel- lations.	Bay- Ch.	Longitude.			Latitude.			Magni- tude.	Constel- lations.	Bay- Ch.	Longitude.			Latitude.			Magni- tude.
		°	'	"	°	'	"				°	'	"	°	'	"	
♋	♄	10	47	37	2	9	44 B.	4	♋	♄	0	0	37.5	0	22	B.	4.3
	♃	14	10	31	1	4	7 B.	4		♃	1	29	12	1	22	1 B.	3
	♂	16	30	33	0	13	25 A.	4		♂	6	50	22	2	50	53 B.	3
♌	♄	23	27	40	5	21	7 B.	4	♌	♄	14	52	43	1	45	29 B.	4
	♃	17	28	38	1	47	34 B.	4		♃	20	29	41	2	1	59 A.	4
	♂	26	38	28	4	0	37 B.	3		♂	1	9	0	2	55	40 B.	4
♍	♄	11	2	25 54	5	46	22 A.	3	♍	♄	11	45	0	0	22	51 B.	4
	♃	5	5	31	2	35	58 A.	3.4		♃	21	47	13	4	25	27 B.	3.4
	♂	6	25	20	5	29	46 A.	1		♂	24	0	53	4	2	52 B.	4
♎	♄	13	25	56	1	14	34 A.	4	♎	♄	26	31	24	2	30	4 R.	4
	♃	19	12	16	5	21	34 B.	2		♃	27	8	3	0	7	50 B.	4
	♂	21	25	48	2	14	21 A.	3		♂	29	14	10	1	56	31 A.	3
♏	♄	1	56	30	0	51	22 A.	3	♏	♄	29	35	45	5	25	46 A.	3
	♃	3	26	40	3	6	3 A.	4		♃	29	51	16	1	3	9 B.	2
	♂	5	44	38	6	47	19 A.	2.3		♂	1	18	31	1	40	50 B.	4
♐	♄	6	34	57	2	1	30 B.	3	♐	♄	6	24	24	4	31	26 A.	1
	♃	11	37	51	2	5	27 A.	3.4		♃	8	6	16	6	4	23 A.	4
	♂	15	9	36	0	13	7 A.	3		♂	27	54	7	6	55	51 A.	3
♑	♄	19	54	29	6	39	27 B.	2	♑	♄	1	12	32	6	25	21 A.	3
	♃	4	11	20	3	9	41 B.	4		♃	2	58	15	2	4	1 A.	4
	♂	5	22	0	0	3	46 B.	4		♂	9	1	32	3	23	32 A.	4.3
♒	♄	18	18	4	3	11	22 A.	4	♒	♄	11	28	30	5	1	12 A.	4
	♃	20	54	28	3	46	50 A.	3.4		♃	11	39	6	0	54	38 B.	4
	♂	24	32	44	4	50	20 B.	3.4		♂	12	55	3	1	28	59 B.	4
♓	♄	25	57	24	3	56	18 A.	4	♓	♄	0	42	17	4	37	27 B.	3
	♃	26	29	40	0	26	38 B.	1		♃	18	26	2	2	31	18 A.	4
	♂	3	2	10	0	7	48 B.	4		♂	20	11	34	2	32	19 A.	3
♈	♄	18	9	22	0	34	4 A.	4	♈	♄	25	22	21	2	3	15 A.	4
	♃	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.	f.	d.	m.	f.		
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.
Carthagea 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 Tarky — —	1	49	19	A.	58	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 Aultria — —	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 accidentally.	Winchester
Henry I.	1058	1100 Aug. 2	35 4 0	77		Reading
Stephen	1105	1135 Dec. 1	18 10 24	49		Feversham
Henry II.	1134	1154 Oct. 25	34 8 12	55	Slain with an Arrow.	Fonteveraud
Richard I.	1156	1189 July 6	9 9 0	43		Fonteveraud
John	1166	1199 April 6	17 6 13	50		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 Villains.	Windsor
Charles II.	1630	1649 Jan. 30	36 0 7	54		Abdicated.	Westminster
James II.	1633	1685 Feb. 6	4 0 7	67		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 from his Horse.	Westminster
Anne	1665	1702 Mar. 8	12 4 24	49		Westminster
George I.	1660	1714 Aug. 1	12 10 10	67		Hanover
George II.	1683	1727 June 11	33 4 14	77		Westminster
George III.	1738	1760 Oct. 25	<i>Whom God prosper.</i>			

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, 1774.

BISHOPS.	Sees.	Date.	Succeeded.	DEANS.
H. Dr. F. Cornwallis Arch-Bishop	Litch. & Cov.	1749	Smallbroke dec.	
	Canterb. A. B.	1763	Secker deceas.	Dr. Moore
H. Dr. R. Drummond Arch-Bishop	<i>St. Asaph</i>	1748	Little 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. Tho- mas Newton
Dr. John Egerton	<i>St. David's</i>	1744	Willes transl.	H. D. Spen Cowper
	Durham	1752	Trevor deceas.	
	Peterborough	1747	Clavering dec.	
Dr. John Thomas	Salisbury	1757	Gilbert transl.	
	Winchester	1761	Hoadley dec.	Dr. Ogle
	Landaff	1738	Harris deceas'd	
Dr. Edmund Keene	Chichester	1752	Peploe deceas'd	
	Ely	1771	Mawson dec.	Dr. Hugh Thomas
Dr. Edward Willes	<i>St. David's</i>	1742	Clagget transl.	
	Bath & Wells	1743	Wynn deceas'd	Ld. Fr. Seymour
Lord J. Beaucherk	Hersford	1746	Egerton deceas.	Dr. Wetherell
	Bangor	1747	Hutton transl.	
Dr. Zachary Pearce	Rochester	1756	Wilcox dec.	Dr. B. Newcome
Dr. Will. Markham	Chester	1771	Keene translat.	Dr. Will. Smith
	Gloucester	1752	Benfon deceas.	
Dr. James Johnson	Worcester	1759	Maddox deceas.	Hon. W. Digby
Sir W. Ashburnham	Chichester	1754	Mawson transl.	Dr. Harward
	Bristol	1756	Conybeare dec.	
Dr. John Hume	Oxford	1758	Secker tr.	
	Salisbury	1766	Thomas tr.	Dr. Tho. Green
Hon. Dr. B. North	Bangor	1756	Pearce transl.	
	Litch. & Cov.	1768	Cornwallis tr.	Dr. J. Addenbrook
	Bristol	1758	Hume translat.	
Dr. Philip Yonge	Norwich	1761	Hayter transl.	Dr. Philip Lloyd
Dr. Will. Warburton	Gloucester	1759	Johnson transl.	Dr. Josiah Tucker
	Landaff	1761	Newcomb tran.	
Dr. John Ewer	Bangor	1768	Egerton transl.	Dr. Thom. Lloyd
Dr. John Green	Lincoln	1761	Thomas tran.	Hon. John Yorke
Dr. Thomas Newton	Rristol	1761	Yonge transl.	Dr. Cutts Barton
Hon. Dr. Fred Keppel	Exeter	1761	Lavington dec.	Dr. Jer. Milles
Dr. John Hinchcliffe	Peterborough	1769	Lamb dec.	Dr. Ch. Tarrant
	<i>St. David's</i>	1766	Squire deceas.	
Dr. Robert Lowth	Oxford	1766	Hume transl.	Dr. W. Markham
Dr. Charles Mofs	<i>St. David's</i>	1766	Lowth transl.	
Dr. Edmund Law	Carlise	1769	Lyttelton dec.	Dr. Tho. Wilson
Dr. J. Shipley	<i>St. Asaph</i>	1769	Newcome dec.	Dr. Will. Herring
Dr. S. Barrington	Landaff	1769	Shipley transl.	J. Fulham, M.A.
	Westminster	1768		Dr. John Thomas
Dr. — Richmond	Sodor & Man	1773	Hildesley dec.	
	Windfor	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. Sir Rich. Adams, Knt.
Exchequer } George Perrot, Esq; Sir James Eyre, Knt.
- Edw. Thurloe, Esq; Att. Gen. Alex. Wedderburn, Esq; Sol. Gen.

A TABLE of TERMS and their RETURNS.

Hilary Term begins Jan. 24, ends Feb. 12.

Returns or Essoign-days.		Exc.	Ret.	Ap.	W. D.
In eight Days of St. Hilary,	Jan. 20	21	22	24	Monday
From the Day of St. Hilary in 15 Days	27	28	29	31	Monday
On the Morrow of the Purif. Blessed Mary, Feb.	3	4	5	7	Monday
In eight Days of the Purif. of Blessed Mary,	9	10	11	12	Saturday

Easter Term begins April 20, ends May 16.

From the Day of Easter in 15 Days,	April 17	18	19	20	Wedn.
From the Day of Easter in 3 Weeks,	24	25	26	27	Wedn.
From the Day of Easter in 1 Month,	May 1	2	3	4	Wedn.
From the Day of Easter in 5 Weeks,	8	9	10	11	Wedn.
On the Morrow of the Ascension,	13	14	15	16	Monday

Trinity Term begins June 3, ends June 22.

On the Morrow of the Holy Trinity,	May 30	31	J. 1	3	Friday
In 8 Days of the Holy Trinity,	June 5	6	7	8	Wedn.
In 15 Days of the Holy Trinity,	12	13	14	15	Wedn.
In 3 Weeks of the Holy Trinity,	19	20	21	22	Wedn.

Michaelmas Term begins Nov. 7, ends Nov. 28.

On the Morrow of All Souls,	Nov. 3	4	5	7	Monday
On the Morrow of St. Martin,	12	13	14	15	Tuesday
In eight Days of St. Martin,	18	19	20	21	Monday
In 15 Days of St. Martin,	25	26	27	28	Monday

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.

The LUNATIONS.

Last Quarter the 5th Day, 30 Minutes past 5 at Night.

New Moon the 12th Day, 35 Minutes past 8 in the Morning.

First Quarter the 19th Day, 25 Minutes past 3 in the Afternoon.

Full Moon the 27th Day, 53 Minutes past 6 at Night.

M. D.	Sundays & other remark. Days.	Sun rises.	Sun sets.	Dec. ☉ South.	Dec. ☽ North.	Moon rises.	Moon south.	Clock bet. Sun	
	Circumcision.	8 4	3 56	22 59	12 4	8 A. 1	2 M 18	4 15	
1	2 S. aft. Christ.	8 4	3 56	22 54	8 42	9 5	3 3	4 44	
2		8 3	3 57	22 48	4 52	10 15	3 51	5 12	
3		8 2	3 58	22 42	0 45	11 26	4 39	5 39	
4	Old Christ. Day.	8 1	3 59	22 35	3 S. 30	Morn.	5 27	6 5	
5	Epiphany.	8 0	4 0	22 28	7 37	0 39	6 17	6 31	
6		7 59	4 1	22 20	11 28	1 53	7 16	6 57	
7	Lucian.	7 58	4 2	22 12	14 43	3 9	8 3	7 22	
8	1 S. aft. Epiph.	7 57	4 3	22 4	17 4	4 22	9 0	7 47	
9	Plow Monday.	7 56	4 4	21 55	18 18	5 33	10 0	8 12	
10		7 55	4 5	21 45	18 17	6 35	11 2	8 36	
11	O. N. Year's Day	7 54	4 6	21 35	16 57	☽ sets.	0 A. 4	8 59	
12	Cam. Term beg.	Hilary.	4 7	21 25	14 33	5 A. 58	1 2	9 22	
13	Oxf. Term beg.	7 52	4 8	21 15	11 22	7 12	1 56	9 44	
14		7 51	4 9	21 4	7 36	8 24	2 47	10 5	
15	2 S. aft. Epiph.	7 50	4 10	20 52	3 36	9 35	3 35	10 25	
16	O. Twelfth Day	7 49	4 11	20 40	0 N. 5	10 43	4 21	10 45	
17	Q. Char. B. D. k	7 48	4 12	20 28	4 25	11 48	5 7	11 4	
18		7 46	4 14	20 16	8 5	Morn.	5 52	11 23	
19	Fabian B. & M.	7 45	4 15	20 3	11 15	0 53	6 37	11 41	
20	Agnes V. & M.	7 43	4 17	19 49	14 3	1 54	7 20	11 58	
21		7 42	4 18	19 36	16 12	2 52	8 6	12 14	
22	3 S. aft. Epiph.	7 41	4 20	19 21	17 39	3 49	8 52	12 29	
23	Term begins.	7 39	4 21	19 7	18 21	4 44	9 40	12 43	
24	Conv. St. Paul	7 37	4 23	18 52	18 13	5 32	10 28	12 57	
25		7 36	4 25	18 37	17 15	6 15	11 16	13 10	
26	Pr. Aug. Fred. b.	7 34	4 26	18 21	15 27	☽ rises.	Morn.	13 23	
27		7 32	4 28	18 6	12 54	5 A. 40	0 5	13 35	
28		7 30	4 30	17 50	9 36	6 47	0 53	13 46	
29	Septuag. Sund.	7 29	4 31	17 33	5 58	7 57	1 40	13 56	
30		7 27	4 33	17 16	1 54	9 8	2 29	14 4	
31									
	Day increas.	Length of Day.	Helioc. Plac. ♀	Helioc. Plac. ♀	Helioc. Plac. ♂	Helioc. Plac. ☉	Helioc. Plac. ♀	Helioc. Plac. ♂	Saturn rises.
1	0 8	7 52	20 11 23	13 ♀ 7	19 ♀ 41	11 ☉ 16	21 ♀ 48	3 12 34	10 A. 35
7	0 18	8 2	20 35	13 40	23 21	17 23	11 27	29 21	10 9
13	0 30	8 14	20 48	14 13	27 1	23 30	11 7	20 57	9 42
19	0 44	8 28	21 0	14 46	0 44	29 36	20 47	9 49	9 17
25	1 2	8 46	21 12	15 19	4 27	5 42	0 29	27 4	8 51

January, 1774.

Days	Day lig. begins.	Day lig. ends.	Durat. Twilig.	Node D in ♀	Lat. ♀ North.	Lat. ♀ South.	Lat. ♂ South.	Lat. ♀ South.	Lat. ♀ North.			
1	5 59	6 1	2 10	26 3	2 13	1 18	0 58	1 16	2 54			
7	5 56	6 4	2 9	25 43	2 14	1 16	0 59	0 47	2 7			
13	5 52	6 8	2 7	25 23	2 16	1 15	1 1	0 13	1 11			
19	5 46	6 14	2 5	25 3	2 18	1 14	1 2	0 N.26	0 17			
25	5 20	6 21	2 3	24 42	2 19	1 12	1 3	1 10	0 S.31			
Days	☉ d.	☽ m.	☽ s.	☽ Ω	Lat. ☽	♄	♃	♂	♆	♀	♁	♂
1	11	15	46	20 16	2 S.53	26 10	1 49	16 14	28 8	21 8		
B	12	16	58	2 17	1 54	26 10	1 56	17 0	29 12	21 21		
3	13	18	9	15 51	0 48	26 11	2 4	17 47	0 X 16	21 41		
4	14	19	20	29 0	0 N.21	26 11	2 11	18 33	1 19	22 8		
5	15	20	31	12 25	1 31	26 R 11	2 19	19 20	2 22	22 42		
6	16	21	41	26 11	2 38	26 11	2 27	20 6	3 25	23 21		
7	17	22	50	10 18	3 37	26 11	2 35	20 53	4 28	24 5		
8	18	23	59	24 45	4 23	26 10	2 43	21 40	5 30	24 53		
B	19	25	8	9 29	4 53	26 10	2 52	22 26	6 32	25 46		
10	20	26	17	24 27	5 3	26 9	3 0	23 13	7 34	26 43		
11	21	27	25	9 27	4 53	26 8	3 9	24 0	8 35	27 43		
12	22	28	33	24 21	4 23	26 8	3 18	24 47	9 36	28 46		
13	23	29	40	9 0	3 38	26 7	3 27	25 34	10 36	29 52		
14	24	30	46	23 15	2 36	26 6	3 37	26 21	11 36	1 0		
15	25	31	52	7 X 2	1 29	26 5	3 46	27 8	12 35	2 10		
B	26	32	58	20 21	0 17	26 4	3 55	27 55	13 33	3 22		
17	27	34	3	3 15	0 S.51	26 2	4 5	28 42	14 31	4 36		
18	28	35	8	15 47	1 55	26 1	4 14	29 29	15 29	5 51		
19	29	36	12	28 2	2 53	25 59	4 24	0 16	16 26	7 8		
20	37	44		10 8 5	3 43	25 58	4 34	1 3	17 23	8 26		
21	1	38	16	21 59	4 22	25 56	4 44	1 50	18 19	9 45		
22	2	39	18	3 52	4 49	25 54	4 54	2 37	19 14	11 6		
B	3	40	19	15 45	5 5	25 52	5 4	3 24	20 9	12 28		
24	4	41	18	27 42	5 6	25 50	5 15	4 11	21 3	13 51		
25	5	42	16	9 48	4 55	25 48	5 25	4 58	21 56	15 15		
26	6	43	13	22 0	4 30	25 45	5 35	5 45	22 48	16 40		
27	7	44	9	4 25	3 52	25 43	5 46	6 32	23 39	18 6		
28	8	45	4	17 0	3 2	25 41	5 57	7 10	24 30	19 33		
29	9	45	57	29 48	2 7	25 38	6 8	8 6	25 21	21 1		
B	10	46	49	12 48	0 54	25 36	6 19	8 53	26 11	22 30		
31	11	47	41	25 58	0 N.17	25 33	6 30	9 41	27 0	23 59		
Days	Jupiter sets.	Mars sets.	Venus sets.	Mercu. rises.	Dec. ♄ North.	Dec. ♃ South.	Dec. ♂ South.	Dec. ♀ South.	Dec. ♀ South.			
1	11 A 21	4 A. 15	8 A. 10	6 M 18	3 32	0 29	23 26	13 21	20 18			
7	11 0	4 13	8 22	6 12	3 34	0 8	22 48	10 37	20 54			
13	10 38	4 12	8 33	6 17	3 36	0 N. 13	22 4	7 49	22 18			
19	10 17	4 12	8 43	6 28	3 40	0 36	21 8	5 0	23 0			
25	9 51	rises.	8 50	6 40	3 40	1 2	20 3	2 9	23 7			

February hath XXVIII Days. White.

The LUNATIONS.

Last Quarter the 4th Day, 52 Minutes past 2 in the Morning.
 New Moon the 10th Day, 41 Minutes past 8 at Night.
 First Quarter the 18th Day, 4 Minutes past Noon.
 Full Moon the 26th Day, 33 Minutes past 10 in the Morning.

M D.	Sundays & other remark. Days.	Sun rises	Sun sets.	Dec. ☉ South.	Dec. ☽ South.	Moon rises.	Moon south.	Clock bef. Sun	
1	Purif B. V. Mary	7 26	4 35	16 59	2 19	10 A. 20	3 M 17	14 11	
2		7 24	4 37	16 42	6 30	11 34	4 6	14 18	
3	Blase.	7 22	4 39	16 24	10 21	Morn.	4 57	14 24	
4	Agatha V. & M. Sexages. Sund.	7 20	4 40	16 6	13 43	0 48	5 50	14 29	
5		7 18	4 42	15 48	16 17	2 0	6 45	14 34	
6	Sexages. Sund.	7 16	4 44	15 30	17 53	3 11	7 42	14 38	
7		7 14	4 46	15 11	18 19	4 16	8 41	14 42	
8		7 12	4 48	14 52	17 35	5 12	9 40	14 44	
9		7 11	4 49	14 33	15 42	6 0	10 38	14 45	
10		7 10	4 51	14 13	12 51	☽ sets.	11 35	14 46	
11	Term ends Shrove Sun.	7 8	4 53	13 53	9 19	5 A. 55	0 A. 31	14 46	
12		7 6	4 55	13 33	5 18	7 4	1 20	14 46	
13	Old Candlem. D.			13 13	1 14	8 19	2 9	14 45	
14	Valentine B. M. Shrove Tuesday.	7 3	4 58	12 53	2 N. 48	9 28	2 55	14 43	
15	Ash Wednesday.	7 1	5 0	12 32	6 38	10 33	3 41	14 40	
16	Ash Wednesday.	6 59	5 2	12 12	10 5	11 36	4 27	14 36	
17		6 57	5 4	11 51	13 3	Morn.	5 13	14 31	
18		6 55	5 6	11 29	15 24	0 38	5 58	14 25	
19		6 53	5 8	11 8	17 7	1 34	6 45	14 19	
20		6 51	5 10	10 47	18 4	2 28	7 32	14 12	
21	Ember Week. St. Matthias.	6 49	5 12	10 25	18 14	3 25	8 20	14 5	
22		6 47	5 14	10 3	17 35	4 9	9 9	13 57	
23		6 45	5 16	9 41	16 6	4 50	9 57	13 49	
24		6 43	5 18	9 19	13 49	5 27	10 46	13 40	
25		6 41	5 20	8 57	10 46	5 49	11 35	13 30	
26	2 Sun. in Lent.	6 39	5 22	8 34	7 12	☽ rises.	Morn.	13 19	
27		6 38	5 23	8 12	3 10	6 A. 56	0 24	13 8	
28		6 36	5 25	7 49	1 S. 7	8 9	1 14	12 56	
Days	Day increaf.	Length of Day.	Helioc. Plac. ♀	Helioc. Plac. ♀	Helioc. Plac. ♂	Helioc. Plac. ☉	Helioc. Plac. ♀	Helioc. Plac. ♂	Saturn rises.
1	1 25	9 9	21 12	15 58	8 49	12 049	11 549	16 22	8 A. 21
7	1 47	9 31	21 39	16 31	12 34	13 53	21 35	3 3	7 56
13	2 8	9 52	21 51	17 4	16 21	24 57	15 18	20 41	7 30
19	2 31	10 15	22 4	17 37	20 9	1 12	11 3	10 9	7 4
25	2 55	10 59	22 16	18 10	23 57	7 2	20 48	2 32	6 38

February, 1774.

Days	Day fig. begins.	Day lig. ends.	Durat. Twilig.	Node D in M	Lat. h North.	Lat. 2 South.	Lat. ♂ South.	Lat. ♀ North.	Lat. ♀ South.
1	5 30	6 30	2 0	24 19	2 21	1 11	1 4	2 8	1 17
7	5 21	6 39	1 59	23 59	2 22	1 10	1 5	3 3	1 45
13	5 12	6 48	1 57	23 39	2 24	1 9	1 5	4 2	2 2
19	5 0	7 0	1 57	23 19	2 25	1 8	1 5	5 3	2 6
25	4 50	7 10	1 56	22 59	2 26	1 7	1 5	6 7	1 52

Days	☉ d.	☽ m.	☿ s.	D ☽	Lat. D	h M R	2 V	♂ ☿	♀ ♃	♃ ♀	♂ ♃
1	12 48	31	9 23	1N.29	25 31	6 42	10 28	27 48	25 29		
2	13 49	20	23 0	2 37	25 28	6 53	11 15	28 35	27 0		
3	14 50	8	6M47	3 37	25 25	7 4	12 3	29 21	28 32		
4	15 50	55	20 48	4 25	25 22	7 16	12 50	0V 5	0M 5		
5	16 51	41	5 4 3	4 57	25 19	7 27	13 37	0 49	1 38		

B	17 52	26	19 25	5 11	25 15	7 39	14 24	1 32	3 12		
7	18 53	10	3 56	5 6	25 12	7 51	15 12	2 14	4 46		
8	19 53	52	18 27	4 41	25 8	8 3	15 59	2 55	6 22		
9	20 54	33	2 56	3 58	25 5	8 15	16 46	3 35	7 59		
10	21 55	12	17 13	3 1	25 1	8 28	17 34	4 13	9 36		

11	22 55	50	1 13	1 54	24 57	8 40	18 21	4 50	11 14		
12	23 56	26	14 52	0 45	24 54	8 52	19 8	5 26	12 53		
B	24 57	0	28 9	0 S.31	24 50	9 4	19 56	6 0	14 33		
14	25 57	32	11V 4	1 41	24 46	9 17	20 43	6 32	16 14		
15	26 58	3	23 38	2 43	24 42	9 29	21 30	7 2	17 56		

16	27 58	33	5 56	3 37	24 39	9 42	22 18	7 31	19 39		
17	28 59	1	18 1	4 20	24 35	9 54	23 5	7 59	21 23		
18	29 59	26	29 57	4 52	24 31	10 7	23 52	8 25	23 7		
19	☿ 59	49	11 51	5 10	24 27	10 20	24 40	8 50	24 52		
B	2 0	9	23 45	5 15	24 23	10 33	25 27	9 13	26 39		

21	3 0	28	5 45	5 7	24 19	10 46	26 14	9 34	28 27		
22	4 0	46	17 52	4 45	24 15	10 59	27 2	9 53	0 16		
23	5 1	2	0 13	4 9	24 10	11 12	27 49	10 9	2 5		
24	6 1	17	12 48	3 21	24 6	11 25	28 36	10 23	3 55		
25	7 1	31	25 38	2 23	24 2	11 38	29 24	0 35	5 47		

26	8 1	44	8 45	1 14	23 57	11 51	0 11	10 45	7 39		
B	9 1	55	22 8	0 23	23 53	12 4	0 59	10 53	9 32		
28	10 2	5	5 45	1N.14	23 48	12 18	1 46	10 59	11 26		

Days	Jupiter fets.	Mars rises.	Venus fets.	Mercu. rises.	Dec. h North.	Dec. 2 North.	Dec. ♂ South.	Dec. ♀ North.	Dec. ♀ South.
1	9A.36	7M28	8A.58	6M46	3 56	1 33	18 40	1 4	22 21
7	9 17	7 14	9 1	6 55	4 5	2 2	17 20	3 39	20 47
13	9 1	7 2	9 1	6 58	4 15	2 32	15 51	6 1	18 26
19	8 46	6 48	8 58	6 56	4 25	3 2	14 19	8 6	15 14
25	8 31	6 33	8 46	fets.	4 35	3 34	12 42	9 47	11 8

March hath XXXI Days.

White.

The LUNATIONS.

Last Quarter the 5th Day, 20 Minutes past 10 in the Morning.
New Moon the 12th Day, 57 Minutes after 9 in the Morning.
First Quarter the 20th Day, 31 Minutes past 8 in the Morning.
Full Moon the 27th Day, 22 Minutes after 11 at Night.

M D.	Sunday & other remark. Days.	Suns rises.	Sun sets.	Dec. ☉ South.	Dec. ☽ South.	Moon rises.	Moon South.	Clock bef. Sun	
1	David	6 34	5 27	7 26	5 23	9 A. 22	2 M 4	12 44	
2	Chad. B. Litchf.	6 32	5 29	7 3	9 24	10 38	2 55	12 32	
3		6 30	5 31	6 40	12 55	11 52	3 48	12 19	
4		6 28	5 33	6 17	15 40	Morn.	4 43	12 6	
5		6 26	5 35	5 54	17 29	1 5	5 40	11 52	
B 3 Sun. in Lent.		6 24	5 37	5 31	18 13	2 11	6 37	11 38	
7		6 22	5 39	5 8	17 50	3 9	7 33	11 23	
8		6 20	5 41	4 44	16 17	3 57	8 31	11 8	
9		6 18	5 43	4 21	13 54	4 40	9 27	10 53	
10		6 16	5 45	3 57	10 38	5 16	10 21	10 37	
11		6 14	5 47	3 34	6 53	5 47	11 14	10 21	
12	Gregory	6 12	5 49	3 10	2 52	☽ sets.	0 A. 4	10 5	
B Midlent Sund.		6 10	5 51	2 47	1 N. 14	7 A. 15	0 52	9 48	
14		6 8	5 53	2 23	5 11	8 21	1 38	9 31	
15		6 6	5 55	1 59	8 50	9 25	2 24	9 13	
16		6 4	5 57	1 36	12 0	10 29	3 11	8 55	
17	St. Patrick	6 2	5 59	1 12	14 37	11 31	3 58	8 37	
18	Edw. K. W. Sax.	6 0	6 1	0 48	16 33	Morn.	4 45	8 19	
19		5 58	6 3	0 25	17 47	0 29	5 31	8 1	
B 5 Sun. in Lent.		5 56	6 5	0 1	18 15	1 22	6 18	7 43	
21	Benedict	5 54	6 7	0 N. 23	17 54	2 7	7 6	7 24	
22		5 52	6 9	0 46	16 43	2 52	7 54	7 5	
23		5 50	6 11	1 10	14 45	3 30	8 43	6 46	
24		5 48	6 13	1 34	12 1	4 3	9 32	6 28	
25	Lady Day	Camb. T. ends.		1 57	8 38	4 34	10 22	6 9	
26	Oxf. Term ends	5 44	6 17	2 21	4 44	5 3	11 11	5 50	
B Palm Sunday		5 43	6 18	2 44	0 27	☽ rises.	Morn.	5 31	
28		5 41	6 20	3 8	3 S. 52	7 A. 15	0 2	5 13	
29		5 39	6 22	3 31	8 10	8 30	0 54	4 54	
30		5 37	6 24	3 54	11 58	9 47	1 48	4 36	
31	Maundy Thursd.	5 35	6 26	4 17	15 3	11 2	2 44	4 17	
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	22 11 R 24	18 V 32	26 W 29	11 R 2	27 Ω 19	19 X 43	6 A. 23
7	3 33	11 17	22 36	19 5	0 X 16	17 2	7 R 4	19 V 44	5 59
13	3 57	11 41	22 49	19 38	4 5	23 1	16 48	24 S 53	sets.
19	4 21	12 5	23 1	20 10	7 53	28 59	26 32	26 36	6 M 14
25	4 45	12 29	23 13	20 43	11 42	4 55	6 14	8 Ω 8	5 50

March, 1774.

Days	Day lig.		Durat.	Node	Lat. h	Lat. 1/2	Lat. ♂	Lat. ♀	Lat. ♄									
	begins.	ends.								Twilig.	in m	North.	South.	South.	North.	South.		
1	4	43	7	17	1	55	22	46	2	27	1	7	1	4	6	47	1	35
7	4	30	7	30	1	56	22	27	2	27	1	6	1	3	7	40	0	48
13	4	17	7	43	1	57	22	7	2	28	1	6	1	3	8	17	0	N.17
19	4	4	7	56	1	58	21	48	2	28	1	5	1	2	8	27	1	33
25	3	50	8	10	2	0	21	29	2	28	1	5	1	1	8	5	2	39
Days	☉	♃	♄	♅	Lat. ♃	h	1/2	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
	d.	m.	s.	D	Lat. ♃	h	1/2	♃	♄	♅	♆	♇	♈	♉	♊	♋	♌	♍
1	11	2	13	19	33	2N.	26	23	43	12	31	2	33	11	2	13	21	
2	12	2	19	3	31	3	30	23	39	12	44	3	21	11	3	15	17	
3	13	2	23	17	36	4	21	23	34	12	58	4	8	11R	1	17	13	
4	14	2	26	1	46	4	58	23	30	13	11	4	56	10	57	19	9	
5	15	2	27	15	57	5	16	23	25	13	25	5	43	10	50	21	6	
B	16	2	25	0	8	5	15	23	20	13	39	6	30	10	41	23	4	
7	17	2	20	14	19	4	55	23	16	13	53	7	17	10	30	25	2	
8	18	2	13	28	24	4	20	23	11	14	6	8	4	10	16	26	59	
9	19	2	3	12	18	3	24	23	6	14	20	8	52	9	59	28	56	
10	20	1	52	26	10	2	20	23	1	14	34	9	39	9	40	0	52	
11	21	1	38	9	45	1	9	22	56	14	48	10	26	9	19	2	46	
12	22	1	22	23	5	0S.	5	22	52	15	2	11	13	8	55	4	39	
B	23	1	5	6	8	1	16	22	47	15	16	12	0	8	29	6	30	
14	24	0	45	18	55	2	23	22	42	15	30	12	47	8	1	8	19	
15	25	0	23	1	26	3	21	22	38	15	44	13	34	7	31	10	5	
16	25	59	59	13	41	4	9	22	33	15	58	14	21	7	0	11	47	
17	26	59	34	25	47	4	45	22	28	16	12	15	8	6	27	13	25	
18	27	59	7	7	45	5	8	22	24	16	26	15	55	5	52	15	0	
19	28	58	39	19	39	5	18	22	19	16	40	16	42	5	16	16	31	
B	29	58	10	1	33	5	13	22	14	16	54	17	29	4	39	17	56	
21	♃	57	38	13	31	4	56	22	10	17	8	18	16	4	2	19	15	
22	1	57	3	25	40	4	25	22	5	17	23	19	3	3	24	20	28	
23	2	56	25	8	1	3	42	22	0	17	37	19	50	2	47	21	35	
24	3	55	45	20	40	2	47	21	56	17	51	20	37	2	9	22	36	
25	4	55	4	3	38	1	42	21	51	18	5	21	24	1	32	23	30	
26	5	54	21	17	0	0	30	21	47	18	20	22	11	0	55	24	18	
B	6	53	36	0	42	0N.	46	21	42	18	34	22	58	0	19	24	58	
28	7	52	49	14	44	2	12	21	38	18	48	23	44	29	44	25	31	
29	8	51	59	29	1	3	9	21	33	19	3	24	31	29	10	25	56	
30	9	51	7	13	28	4	7	21	29	19	17	25	18	23	37	26	15	
31	10	50	14	28	0	4	48	21	24	19	31	26	5	28	6	26	26	
Days	Jupiter	Mars	Venus	Mercu.	Dec. h	Dec. 1/2	Dec. ♂	Dec. ♀	Dec. ♄									
	fets.	rises.	fets.	fets.	North.	North.	South.	North.	South.									
1	8A.21	6M25	8A.38	5A.36	4	42	3	55	11	34	10	35	8	1				
7	8	7	8	6	11	4	53	4	28	9	51	11	12	2	43			
13	7	53	7	7	10	5	5	5	1	8	2	10	57	2	N.50			
19	7	38	7	7	48	5	17	5	34	6	12	9	52	7	5t			
25	7	25	rises.	8	10	5	28	6	6	4	21	7	57	11	36			

April, 1774.

Days	Day lig. begins.	Daylig. ends.	Durat. Twilig.	Node D in η	Lat. η North.	Lat. η South.	Lat. δ South.	Lat. ϕ North.	Lat. ϕ North.
1	3 33	8 27	2 3	21 6	2 28	1 4	0 58	6 57	3 16
7	3 17	8 43	2 8	20 48	2 27	1 4	0 56	5 43	2 53
13	3 2	8 58	2 11	20 29	2 27	1 4	0 54	4 22	1 39
19	2 47	9 13	2 15	20 10	2 26	1 4	0 52	3 4	0 1
25	2 26	9 34	2 25	19 51	2 25	1 4	0 49	1 53	1 S. 3
Days	\odot d. m. s.	\sphericalangle D ϕ	Lat. D	η R	η ϕ	δ χ	ϕ R	ϕ χ	ϕ χ
1	11 49 19	12 29	5N.11	21 20	19 46	26 52	27 37	26 29	
2	12 48 21	26 52	5 16	21 16	20 0	27 38	27 10	26 R 26	
B	13 47 21	11 5	4 58	21 11	20 15	28 25	26 45	26 17	
4	14 46 19	25 7	4 24	21 7	20 29	29 12	26 23	26 1	
5	15 45 15	8 ^{ww} 54	3 36	21 3	20 44	29 59	26 3	25 40	
6	16 44 9	22 30	2 36	20 59	20 58	0V 45	25 45	25 14	
7	17 43 1	5X 54	1 29	20 55	21 13	1 32	25 29	24 42	
8	18 41 51	19 5	0 17	20 51	21 27	2 18	25 16	24 6	
9	19 40 39	1V 58	0 S. 54	20 47	21 41	3 5	25 6	23 27	
B	20 39 26	14 43	2 1	20 44	21 56	3 51	24 58	22 45	
11	21 38 11	27 15	3 0	20 40	22 10	4 38	24 52	22 2	
12	22 36 54	9 36	3 51	20 36	22 25	5 24	24 48	21 18	
13	23 35 35	21 47	4 30	20 33	22 39	6 10	24 46	20 34	
14	24 34 14	3 II 49	4 57	20 29	22 54	6 56	24 D. 48	19 51	
15	25 32 51	15 44	5 10	20 26	23 8	7 43	24 52	19 10	
16	26 31 26	27 37	5 10	20 22	23 23	8 29	24 58	18 31	
B	27 29 59	9 30	4 57	20 19	23 37	9 15	25 6	17 55	
18	28 28 29	21 26	4 31	20 16	23 52	10 1	25 16	17 22	
19	29 26 57	3 32	3 53	20 13	24 6	10 47	25 20	16 52	
20	30 25 23	15 51	3 3	20 10	24 21	11 33	25 44	16 26	
21	1 23 47	28 28	2 3	20 7	24 35	12 19	26 1	16 5	
22	2 22 10	11 27	0 55	20 4	24 50	13 5	26 19	15 49	
23	3 20 31	24 52	0 N. 18	20 1	25 4	13 50	26 39	15 38	
B	4 18 50	8 43	1 32	19 59	25 19	14 36	27 1	15 32	
25	5 17 7	23 0	2 42	19 56	25 33	15 22	27 21	15 31	
26	6 15 23	7 40	3 43	19 54	25 47	16 8	27 49	15 D. 34	
27	7 13 37	22 34	4 30	19 51	26 1	16 53	28 16	15 42	
28	8 11 50	7 34	4 59	19 49	26 16	17 39	28 45	15 56	
29	9 10 1	22 29	5 8	19 46	26 30	18 25	29 16	16 14	
30	10 8 11	7 12	4 56	19 44	26 44	19 10	29 48	16 37	
Days	Jupiter sets.	Mars rises.	Venus rises.	Mercu. sets.	Dec. η North.	Dec. η North.	Dec. δ South.	Dec. ϕ North.	Dec. ϕ North.
1	7A. 9	5M 13	4M 27	8A. 2	5 39	6 44	2 11	5 28	13 17
7	6 56	5 0	4 6	7 28	5 49	7 17	0 17	3 22	12 16
13	rises.	4 46	3 56	rises.	5 58	7 49	1 N. 36	1 54	9 35
19	4M 55	4 31	3 41	4M 36	6 5	8 21	3 28	1 1	6 39
25	4 34	4 17	3 28	4 20	6 10	8 52	5 17	0 41	4 45

May hath XXXI Days.

White.

The LUNATIONS.

Last Quarter the 2d Day, at Midnight.
 New Moon the 10th Day, 17 Minutes past 3 in the Afternoon.
 First Quarter the 18th Day, 55 Minutes after 6 at Night.
 Full Moon the 25th Day, 3 Minutes past 5 in the Afternoon.

M D.	Sunday & other remark, Days.	Sun rises.	Sun sets.	Dec. ☉ North.	Dec. ☽ South.	Moon rises.	Moon South.	Clock aft. Sun.		
B 1	4 S. after Easter	St. Phil. & James	15 11	17 23	0 M 9	4 M 36	3 8			
2		4 34	7 27	15 28	15 22	0 56	5 33	3 16		
3	Inv. of the Crofs	4 33	7 28	15 46	12 30	1 36	6 27	3 23		
4		4 31	7 30	16 3	9 1	2 9	7 20	3 29		
5		4 30	7 31	16 21	5 11	2 37	8 9	3 35		
6	St. John A.P.L.	4 28	7 33	16 38	1 10	3 3	8 56	3 40		
7		4 26	7 35	16 54	2 N. 50	3 27	9 41	3 45		
B 8	Rogat. Sunday.	4 25	7 36	17 11	6 38	3 51	10 26	3 49		
9		4 23	7 38	17 27	10 8	4 17	11 10	3 53		
10		4 22	7 39	17 42	13 9	☽ sets.	11 54	3 56		
11		4 20	7 41	17 58	15 35	8 A. 24	0 A. 44	3 58		
12	Holy Thursday.	Old May Day.	18 13	17 20	9 19	1 31	4 0			
13		4 17	7 44	18 28	18 17	10 11	2 18	4 1		
14		4 16	7 45	18 42	18 28	10 58	3 6	4 2		
B 15	6 S. after Easter	4 14	7 47	18 57	17 50	11 39	3 53	4 2		
16	Term ends.	4 12	7 48	19 11	16 26	Morn.	4 40	4 2		
17		4 11	7 50	19 24	14 16	0 14	5 27	4 1		
18		4 10	7 51	19 37	11 27	0 45	6 13	4 0		
19	Q Charlotte bo.	Oxf. Term ends.	19 50	8 2	1 14	7 0	3 58			
20		4 6	7 54	20 3	4 9	1 38	7 47	3 55		
21		4 5	7 55	20 15	0 S. 6	2 5	8 36	3 51		
B 22	Whit-Sunday.	Prs. Eliz. born.	20 27	4 26	2 33	9 27	3 47			
23	Whit-Monday.	4 2	7 58	20 39	8 43	3 0	10 22	3 43		
24	Whit-Tuesday.	4 1	7 59	20 50	12 34	3 33	11 19	3 38		
25	Ember Week.	4 0	8 0	21 1	15 43	☽ rises.	Morn.	3 33		
26	Augustin A. B.	3 59	8 1	21 11	17 47	8 A. 54	0 18	3 27		
27	Ven. Bede.	3 58	8 2	21 21	18 33	9 58	1 20	3 21		
28		3 57	8 3	21 31	18 3	10 52	2 23	3 14		
B 29	Trinity Sunday.	K. Ch. II. Ref.	21 41	16 19	11 36	3 24	3 7			
30		3 55	8 5	21 50	13 36	Morn.	4 20	2 59		
31		3 54	8 6	21 58	10 10	0 11	5 14	2 51		
Day	Day increas.	Length of Day.	Helioc. Plac. ♀	Helioc. Plac. ♀	Helioc. Plac. ♂	Helioc. Plac. ☉	Helioc. Plac. ♀	Helioc. Plac. ♂	Saturn sets.	
1	7 5	14 49	24 11	29 24	7 4	52 11	6 5	32 19	12 3	M 32
7	7 24	15 8	24 41	24 39	8 34	16 54	15 3	6 0	3 8	
13	7 43	15 27	24 53	25 12	12 14	22 42	24 33	23 52	2 44	
19	8 0	15 44	25 6	25 45	15 52	28 28	4 3	13 45	2 19	
25	8 16	16 c	25 18	26 18	19 29	4 14	13 32	6 46	1 54	

May, 1774.

Days	Day lig. begins.	Day lig. ends.	Durat. Twilig.	Node D in ♍	Lat. ♄ North.	Lat. ♃ South.	Lat. ♀ South.	Lat. ♀ North.	Lat. ♀ South.	
1	2 6	9 57	2 37	19 33	2 24	1 4	0 47	0 51	2 33	
7	1 44	10 19	2 48	19 15	2 23	1 4	0 44	0 5	2 3 6	
13	1 19	10 45	3 5	18 56	2 22	1 4	0 40	0 46	3 12	
19	0 48	11 20	3 32	18 38	2 21	1 5	0 37	1 23	2 54	
25	NoNig.	NoNig.	NoNig.	18 20	2 19	1 5	0 34	1 51	2 16	
Days	☉ d.	☽ m.	☽ s.	☽ D	Lat. ☽	♂ R	♃ ♀	♂ ♀	♀ ♀	♀ ♀
B	11 6	19	21 37	4N.25	19 42	26 58	19 56	0 22	17 3	
2	12 4	25	5 ⁴¹ 41	3 39	19 40	27 12	20 42	0 57	17 34	
3	13 2	28	19 25	2 41	19 38	27 26	21 27	1 33	18 9	
4	14 0	29	2 ⁵⁰ 50	1 36	19 36	27 40	22 13	2 9	18 48	
5	14 58	29	15 53	0 27	19 35	27 54	22 58	2 46	19 30	
6	15 56	28	28 45	0S.42	19 33	28 8	23 44	3 25	20 16	
7	16 54	26	11 ²⁵ 25	1 48	19 31	28 22	24 29	4 5	21 5	
B	17 52	22	23 50	2 47	19 30	28 36	25 14	4 46	21 57	
9	18 50	17	6 ⁸ 8	3 37	19 28	28 50	25 59	5 29	22 53	
10	19 48	11	18 17	4 18	19 27	29 4	26 44	6 13	23 53	
11	20 46	3	0 ¹² 12	4 46	19 26	29 18	27 29	6 57	24 56	
12	21 43	53	12 18	5 0	19 25	29 32	28 14	7 42	26 1	
13	22 41	42	24 11	5 3	19 24	29 46	28 59	8 28	27 9	
14	23 39	30	6 ⁰⁰ 2	4 52	19 23	0 ⁸ 0	29 44	9 15	28 20	
B	24 37	15	17 54	4 29	19 23	0 14	0 ⁸ 29	10 3	29 33	
16	25 34	59	29 50	3 53	19 22	0 27	1 14	10 51	0 ⁸ 49	
17	26 32	42	11 ⁵⁴ 54	3 7	19 22	0 41	1 58	11 40	2 8	
18	27 30	24	24 10	2 12	19 21	0 55	2 43	12 30	3 29	
19	28 28	5	6 ⁴² 42	1 9	19 21	1 9	3 28	13 20	4 53	
20	29 25	45	19 36	0 0	19 21	1 22	4 13	14 11	6 19	
21	11 23	23	2 ⁵⁷ 57	1N.10	19D.21	1 36	4 57	15 3	7 48	
B	1 21	0	16 47	2 19	19 21	1 49	5 42	15 56	9 10	
23	2 18	35	1 ¹¹ 8	3 20	19 21	2 3	6 26	16 49	10 52	
24	3 16	9	15 52	4 12	19 21	2 16	7 11	17 42	12 28	
25	4 13	42	0 ⁴ 59	4 46	19 21	2 29	7 55	18 36	14 6	
26	5 11	14	16 19	5 1	19 22	2 43	8 39	19 30	15 46	
27	6 8	45	1 ³⁴ 34	4 55	19 22	2 56	9 24	20 25	17 29	
28	7 6	15	16 39	4 26	19 23	3 9	10 8	21 21	19 14	
B	8 3	44	1 ²⁰ 20	3 42	19 24	3 22	10 52	22 17	21 2	
30	9 1	12	15 36	2 44	19 25	3 35	11 36	23 14	22 52	
31	9 58	40	29 25	1 39	19 26	3 48	12 20	24 11	24 44	
Days	Jupiter rises.	Mars rises.	Venus rises.	Mercu. rises.	Dec. ♄ North.	Dec. ♃ North.	Dec. ♀ North.	Dec. ♀ North.	Dec. ♀ North.	
1	4M 13	4M 1	3M 16	4M 6	6 14 9 23	7 5	0 54	4 21		
7	3 52	3 46	3 7	3 54	6 17 9 53	8 48	1 35	5 22		
13	3 32	3 31	2 55	3 42	6 20 10 23	10 29	2 41	7 30		
19	3 12	3 15	2 43	3 32	6 21 10 52	12 6	4 0	0 26		
25	2 52	2 59	2 30	3 22	6 20 11 20	13 37	5 34	13 56		

June hath XXX Days.

White.

The LUNATIONS.

Last Quarter the 1st Day, 24 Minutes past 8 in the Morning.
 New Moon the 9th Day, 20 Minutes after 6 in the Morning.
 First Quarter the 17th Day, 22 Minutes past 7 in the Morning.
 Full Moon the 23d Day, 3 Minutes after Midnight.
 Last Quarter the 30th Day, 1 Minute past 7 at Night.

M D.	Sund. & other remark. Days.	Sun rises.	Sun sets.	Dec. ☉ North.	Dec. ☽ South.	Moon rises.	Moon South.	Clock aft. Sun	
1	Oxf. Term beg.	Nicom.	8 7	22 7	6 20	☉M.42	6M 6	2 43	
2	Corpus Christi.	3 52	8 8	22 14	2 18	I 6	6 54	2 34	
3	Term begins.	3 51	8 9	22 23	IN.45	I 31	7 40	2 25	
4	K. Geo. III. born	3 50	8 10	22 29	5 38	I 55	8 25	2 15	
5	1 Sun. aft. Trin.	Pr. Erne. Aug. bor.	22 36	9 14	2 19	9 10	2 5		
6		3 49	8 11	22 42	12 24	2 48	9 54	1 54	
7		3 48	8 12	22 48	15 1	3 16	10 38	1 43	
8		3 48	8 12	22 53	16 59	3 48	11 24	1 32	
9		3 47	8 13	22 58	18 10	☽ sets.	☉A.13	I 21	
10	Prs. Amelia bor.	3 47	8 13	23 3	18 27	8A.54	1 2	I 9	
11	St. Barnabas.	3 47	8 13	23 7	18 14	9 35	1 46	☉ 57	
12	2 Sun. aft. Trin	3 46	8 14	23 11	17 3	10 12	2 33	☉ 45	
13		3 46	8 14	23 15	15 1	10 45	3 20	☉ 33	
14		3 45	8 15	23 18	12 29	11 15	4 7	☉ 21	
15		3 45	8 15	23 21	9 16	11 40	4 54	☉ 9	
16		3 44	8 16	23 23	5 35	Morn.	5 41	☉ bef. 4	
17	St. Alban.	3 44	8 16	23 25	1 36	☉ 6	6 27	☉ 17	
18		3 43	8 17	23 26	2 S.39	☉ 31	7 14	☉ 29	
19	3 Sun. aft. Trin.	3 43	8 17	23 27	6 54	☉ 57	8 4	☉ 42	
20	Tr. Edw. K. W. S.	3 43	8 17	23 28	10 54	I 25	8 57	☉ 55	
21	Longest Day.	3 43	8 17	23 28	14 21	I 59	9 54	I 8	
22	Term ends.	3 43	8 17	23 28	16 57	2 39	10 55	I 21	
23		3 43	8 17	23 27	18 24	3 28	11 56	I 33	
24	St. John Bapt.	3 43	8 17	23 26	18 31	☽ rises.	Morn.	I 46	
25		3 44	8 16	23 25	17 17	9A.23	☉ 59	I 59	
26	4 Sun. aft. Trin.	3 44	8 16	23 23	15 55	10 4	2 0	2 12	
27		3 44	8 16	23 20	11 39	10 37	2 57	2 25	
28		3 45	8 15	23 18	7 50	11 6	3 52	2 37	
29	St. Peter.	3 45	8 15	23 15	3 42	11 31	4 43	2 49	
30		3 46	8 14	23 11	☉N.26	11 57	5 31	3 1	
Days	Day increaf.	Length of Day.	Helioc. Plac. ♀	Helioc. Plac. ♀	Helioc. Plac. ♂	Helioc. Plac. ☉	Helioc. Plac. ♀	Helioc. Plac. ♂	Saturn sets.
1	8 30	16 14	25M.32	26V.57	23V.40	10 ↑ 56	24 ↓ 36	9V.17	1M.26
7	8 39	16 23	25 44	27 30	27 12	16 40	4 ~ 5	12 8.53	1 1
13	8 45	16 29	25 57	28 2	☉ 8.43	22 24	13 34	20 II.14	☉ 36
19	8 49	16 33	26 9	28 35	4 12	28 8	23 4	26 II.59	☉ 12
25	☉ Decz	16 32	26 21	29 8	7 39	3 ↓ 51	2 X 34	29 II.5	11A.43

June, 1774.

Days	Daylig.		Durat. Twilig.	Node Lat. ♃		Lat. ♃		Lat. ♂		Lat. ♀		Lat. ♄							
	begins.	ends.		♃	♃ North	♃	♃ South.	♃	♃ South.	♃	♃ South.	♃	♃ South.						
1				17	59	2	18	1	5	0	29	2	16	1	10				
7	All	All	All	17	41	2	17	1	6	0	26	2	30	0	5				
13	Day	Day	Day	17	23	2	16	1	6	0	22	2	39	0	N.53				
19	Light.	Light.	Light.	17	5	2	14	1	7	0	18	2	43	1	38				
25				16	47	2	13	1	7	0	14	2	42	1	55				
Days	☉	♁	♂	♃	♃	♃	♃	♃	♃	♃	♃	♃	♃	♃	♃				
	d.	m.	s.	♂	♃	♃	♃	♃	♃	♃	♃	♃	♃	♃	♃				
1	10	56	8	12	48	0	N.30	19	27	4	1	13	4	25	8	26	39		
2	11	53	34	25	49	0	S.39	19	28	4	14	13	4	26	6	28	36		
3	12	50	59	8	♃	1	44	19	30	4	26	14	32	27	4	0	♂	35	
4	13	48	22	20	57	2	43	19	31	4	39	15	15	28	2	2	36		
B	14	45	44	3	♂	3	33	19	32	4	51	15	59	29	1	4	39		
6	15	43	6	15	19	4	13	19	34	5	4	16	43	0	♂	0	6	44	
7	16	40	27	27	21	4	41	19	35	5	16	17	26	1	0	8	51		
8	17	37	47	9	♂	4	57	19	37	5	29	18	10	2	0	10	59		
9	18	35	6	21	10	5	0	19	39	5	41	18	53	3	0	13	9		
10	19	32	25	3	♂	4	49	19	41	5	53	19	37	4	1	15	20		
11	20	29	43	14	54	4	27	19	43	6	6	20	20	5	1	17	31		
B	21	27	0	26	48	3	52	19	45	6	18	21	4	6	2	19	43		
13	22	24	17	8	♂	3	7	19	47	6	30	21	47	7	3	21	55		
14	23	21	34	20	52	2	13	19	50	6	42	22	30	8	5	24	7		
15	24	18	51	3	♂	1	12	19	52	6	54	23	13	9	8	26	18		
16	25	16	7	15	40	0	6	19	54	7	6	23	56	10	10	18	29		
17	26	13	22	28	31	1	N.	2	19	57	7	18	24	39	11	13	0	♂	39
18	27	10	37	11	♂	2	8	20	0	7	30	25	22	12	15	2	48		
B	28	7	52	25	28	3	9	20	3	7	41	26	5	13	18	4	56		
20	29	5	7	9	♂	4	1	20	5	7	53	26	48	14	22	7	3		
21	30	2	21	24	19	4	39	20	8	8	4	27	31	15	25	9	8		
22	0	59	35	9	♂	4	59	20	11	8	16	28	14	16	29	11	11		
23	1	56	48	24	42	4	58	20	14	8	27	28	56	17	33	13	12		
24	2	54	1	10	♂	4	36	20	18	8	38	29	39	18	37	15	11		
25	3	51	14	25	18	3	54	20	21	8	49	0	♂	21	19	42	17	8	
B	4	48	27	10	♂	2	56	20	25	9	0	1	4	20	46	19	4		
27	5	45	40	24	40	1	49	20	28	9	10	1	46	21	51	20	57		
28	6	42	52	8	♂	0	36	20	32	9	21	2	29	22	56	22	48		
29	7	40	4	22	8	0	S.36	20	35	9	32	3	11	24	1	24	37		
30	8	37	16	5	♂	1	44	20	39	9	42	3	53	25	6	26	24		
Days	Jupiter		Mars		Venus		Mercur.		Dec. ♃		Dec. ♃		Dec. ♂		Dec. ♀		Dec. ♄		
	rises.	rises.	rises.	rises.	rises.	rises.	rises.	rises.	North.	North.	North.	North.	North.	North.	North.	North.	North.		
1	2M	28	2M	42	2M	16	3M	18	6	17	11	51	15	17	7	37	18	18	
7	2	6	2	26	2	4	3	20	6	13	12	15	16	39	9	28	21	43	
13	1	44	2	12	1	54	3	35	6	8	12	39	17	53	11	22	24	7	
19	1	22	1	57	1	42	sets.		6	1	13	2	19	1	13	17	25	1	
25	1	0	1	43	1	31	9A.22		5	51	13	24	20	1	15	6	24	17	

July hath XXXI Days.

White.

The LUNATIONS.

New Moon the 8th Day, 16 Minutes past 9 at Night.

First Quarter the 16th Day, 40 Minutes after 4 in the Afternoon.

Full Moon the 23d Day, 50 Minutes past 6 in the Morning.

Last Quarter the 30th Day, 17 Minutes after 8 in the Morning.

M D.	fund. & other remark. Days.	Sun rifes.	Sun sets.	Dec. ☉ North.	Dec. ☽ North.	Moon rifes.	Moon South.	Clock bef. Sun
1		3 46	8 14	23 7	4 30	Morn.	6M17	3 13
2	Visit. B. V. Mary	3 46	8 14	23 3	8 12	0 21	7 2	3 25
3	5 Sun. aft. Trin.	3 48	8 13	22 58	11 30	0 47	7 48	3 36
4		3 48	8 12	22 53	14 18	1 14	8 33	3 47
5	Camb. Commem.	Old Midf. Day.		22 48	16 28	1 46	9 18	3 57
6		3 49	8 11	22 42	17 55	2 18	10 4	4 7
7	Thom. à Beck.	3 50	8 10	22 35	18 34	3 0	10 50	4 17
8	Camb. T. ends.	3 50	8 10	22 29	18 25	☽ sets.	11 36	4 26
9		3 51	8 9	22 22	17 29	8A.11	CA.26	4 35
10	5 Sun. aft. Trin.	3 52	8 8	22 14	15 45	8 44	1 13	4 44
11	Oxford Act.	3 53	8 7	22 6	13 17	9 14	1 59	4 52
12		3 54	8 6	21 58	10 14	9 41	2 46	5 1
13		3 55	8 5	21 49	6 43	10 5	3 32	5 9
14		3 56	8 4	21 40	2 49	10 30	4 18	5 16
15	Swithin.	3 57	8 3	21 31	1 S.17	10 54	5 4	5 22
16	Oxf. Term ends.	3 58	8 2	21 21	5 27	11 21	5 52	5 28
17	7 Sun. aft. Trin.	3 59	8 1	21 11	9 26	11 51	6 43	5 33
18		4 0	8 0	21 1	13 4	Morn.	7 37	5 38
19		4 1	7 59	20 50	15 54	0 29	8 34	5 42
20	Margaret V. M.	4 3	7 57	20 39	17 49	1 11	9 33	5 46
21		4 4	7 56	20 27	18 35	2 4	10 35	5 49
22	Q. Denm. born.	St. Mary	Magd.	20 15	18 0	3 8	11 37	5 52
23		4 7	7 53	20 3	16 9	☽ rifes.	Morn.	5 54
24	8 Sun. aft. Trin.	4 8	7 52	19 51	13 13	8A.31	0 37	5 56
25	St. James.	4 10	7 50	19 38	9 33	9 3	1 34	5 57
26	St. Anne, M. of	4 11	7 49	19 25	5 25	9 31	2 28	5 57
27	the B. V. Mary.	4 13	7 47	19 11	1 10	9 58	3 19	5 57
28		4 14	7 46	18 57	3N. 1	10 23	4 8	5 57
29		4 15	7 45	18 43	6 55	10 48	4 55	5 56
30	Dog Days begin.	4 17	7 43	18 29	10 29	11 14	5 41	5 54
31	9 Sun. aft. Trin.	4 18	7 42	18 4	13 23	11 43	6 27	5 52
Days	Day decreaf.	Length of Day.	Helioc. Plac. ♄	Helioc. Plac. ♃	Helioc. Plac. ♀	Helioc. Plac. ☉	Helioc. Plac. ♁	Saturn sets.
1	0 6	16 28	26 ^m 33	29 ^v 41	11 8	4 9 ^h 34	12 ^x 5	25 ^m 38
7	0 13	16 21	26 45	0 8 14	14 27	15 18	21 36	17 ^h 48
13	0 24	16 10	26 58	0 47	17 48	21 1	1 ^v 9	7 ^m 0
19	0 37	15 57	27 10	1 19	21 7	26 45	10 42	24 27
25	0 53	15 41	27 22	1 52	24 24	2 ^m 28	20 16	11 ^h 3

Days	Day lig. begins.	Day lig. ends.	Durat. Twilig.	Node ♃ in ♍	Lat. ♃ North.	Lat. ♃ South.	Lat. ♃ South.	Lat. ♀ South.	Lat. ♀ North.				
1				16 29	2 12	1 8	0 9	2 37	1 40				
7	All Day Light.	All Day Light.	All Day Light.	16 10	2 11	1 9	0 5	2 29	1 17				
13				15 53	2 10	1 10	0 1	2 18	0 29				
19				15 35	2 9	1 11	oN. 4	2 3	oS. 32				
25	0 45	11 7	3 20	15 17	2 9	1 12	0 9	1 47	1 43				
Days	☉ d.	☽ m.	☾ s.	☽ ♃	Lat. ♃	♃	♃	♃	♃	♃	♃	♃	♃
1	9	34	29	17 53	2 S. 43	20 43	9 52	4 35	26 11	28 9			
2	10	31	41	o♃ 17	3 35	20 47	10 2	5 17	27 17	29 53			
B	11	28	53	12 27	4 16	20 51	10 13	5 59	28 23	1♃ 35			
4	12	26	5	24 29	4 45	20 55	10 23	6 41	29 3	14			
5	13	23	16	6 11 24	5 1	20 59	10 33	7 23	o 11 35	4 51			
6	14	20	28	18 17	5 4	21 4	10 43	8 5	1 41	6 26			
7	15	17	41	o♃ 9	4 54	21 8	10 53	8 47	2 48	7 59			
8	16	14	51	12 1	4 32	21 13	11 2	9 29	3 55	9 30			
9	17	12	7	23 56	3 57	21 17	11 12	10 10	5 10	59			
B	18	9	20	5♃ 56	3 11	21 22	11 21	10 52	6 8	12 25			
11	19	6	34	18 2	2 17	21 26	11 31	11 34	7 14	13 49			
12	20	3	48	o♃ 16	1 16	21 31	11 40	12 15	8 21	15 11			
13	21	1	2	12 40	0 9	21 36	11 49	12 56	9 28	16 31			
14	21	58	17	25 17	oN. 58	21 40	11 58	13 38	10 36	17 48			
15	22	55	32	8 11	2 5	21 45	12 7	14 19	11 44	19 3			
16	23	52	47	21 25	3 6	21 50	12 15	15 0	12 52	20 16			
B	24	50	3	5 11 2	3 59	21 55	12 24	15 41	14 0	21 26			
18	25	47	19	19 2	4 36	22 0	12 32	16 22	15 8	22 34			
19	26	44	36	3 ♃ 28	5 3	22 6	12 41	17 3	16 16	23 40			
20	27	41	53	18 15	5 8	22 11	12 49	17 44	17 24	24 43			
21	28	39	11	3 1/2 19	4 51	22 17	12 57	18 25	18 32	25 43			
22	29	36	30	18 29	4 15	22 22	13 5	19 5	19 40	26 39			
23	♃ 33	48	3 3/4 36	3 20	22 28	13 13	13 13	19 46	20 48	27 32			
B	1	31	8	18 29	2 13	22 33	13 20	20 27	21 57	28 22			
25	2	28	29	3 1/2 0	0 58	22 39	13 28	21 7	23 6	20 9			
26	3	25	51	17 4	oS. 18	22 44	13 35	21 48	24 15	29 52			
27	4	23	14	o♃ 41	1 31	22 50	13 42	22 28	25 24	o♃ 22			
28	5	20	37	13 50	2 37	22 55	13 49	23 9	26 34	1 9			
29	6	18	1	26 35	3 33	23 1	13 56	23 49	27 42	1 42			
30	7	15	26	9 8 2	4 17	23 7	14 2	24 29	28 52	2 10			
B	8	12	52	21 15	4 49	23 13	14 9	25 9	o♃ 1	2 33			
Days	Jupiter rises.	Mars rises.	Venus rises.	Mercur. sets.	Dec. ♃ North.	Dec. ♃ North.	Dec. ♃ North.	Dec. ♀ North.	Dec. ♀ North.				
1	oM 36	1M 30	1M 23	9A. 28	5 41	13 44	20 56	16 47	22 12				
7	o 13	1 18	1 17	9 26	5 30	14 2	21 42	18 20	19 33				
13	11A. 47	1 8	1 12	9 15	5 19	14 18	22 22	19 39	15 59				
19	11 23	o 58	1 8	9 1	5 6	14 13	22 55	20 43	13 9				
25	11 1	o 49	1 10	8 39	4 52	14 45	23 19	21 29	10 10				

August hath XXXI Days.

White.

The LUNATIONS.

New Moon the 7th Day, 54 Minutes past 11 in the Morning.
First Quarter the 14th Day, 38 Minutes after 11 at Night.
Full Moon the 21st Day, 58 Minutes past 2 in the Afternoon.
Last Quarter the 28th Day, 26 Minutes after Midnight.

M D.	Sund. & other remark. Days.	Sun rises.	Sun sets.	Dec. ☉ North.	Dec. ☽ North.	Moon rises.	Moon South.	Clock bef. Sun	
1	Lammas Day.	4 20	7 40	17 59	14 48	Morn.	7M12	5 49	
2		4 21	7 39	17 44	17 28	0 19	7 56	5 45	
3		4 23	7 37	17 28	18 22	0 58	8 46	5 41	
4		4 24	7 36	17 12	18 29	1 42	9 34	5 36	
5		4 25	7 34	16 56	17 46	2 32	10 20	5 30	
6	Transfiguration.	4 27	7 32	16 39	16 17	3 28	11 7	5 23	
7	10 Sun. aft. Trin.	4 28	7 31	16 23	14 2	☽ sets.	11 54	5 16	
8		4 30	7 29	16 6	11 6	7A.46	0A.43	5 9	
9		4 31	7 28	15 48	7 40	8 11	1 29	5 1	
10	St. Laurence M.	4 33	7 26	15 31	3 51	8 37	2 14	4 53	
11	Prs. Brunwf. bo.	4 35	7 24	15 13	0 S.14	9 2	3 3	4 44	
12	Pr. Wales born.	O. Lammas Day.		14 55	4 23	9 28	3 51	4 35	
13		4 38	7 21	14 37	8 22	9 57	4 40	4 25	
14	11 Sun. aft. Trip.	4 40	7 19	14 19	12 0	10 30	5 32	4 15	
15	Affum. B.V.M.	4 42	7 17	14 0	15 1	11 10	6 27	4 4	
16	Pr. Fred. born.	4 44	7 15	13 41	17 12	11 55	7 24	3 52	
17		4 45	7 14	13 22	18 21	Morn.	8 23	3 39	
18		4 47	7 12	13 2	18 8	0 52	9 23	3 26	
19		4 49	7 10	12 43	17 1	1 57	10 23	3 12	
20		4 51	7 8	12 23	14 36	3 9	11 21	2 58	
21	12 Sun. aft. Trin	Pr. W. H. born.		12 3	11 15	☽ rises.	Morn.	2 44	
22		4 54	7 5	11 43	7 16	7A.33	0 16	2 29	
23		4 56	7 3	11 23	3 0	8 2	1 10	2 14	
24	St. Bartholom.	4 58	7 1	11 2	1N.19	8 27	2 1	1 59	
25		5 0	6 59	10 40	5 26	8 53	2 50	1 43	
26		5 2	6 57	10 20	9 20	9 21	3 38	1 27	
27		5 4	6 55	9 59	12 25	9 50	4 26	1 10	
28	13 Sun. aft. Trin.	St. Augustine.		9 37	15 1	10 24	5 12	0 53	
29	Deco. St. J. Bap.	5 8	6 51	9 16	16 56	11 2	5 59	0 36	
30		5 10	6 49	8 55	18 5	11 41	6 46	0 18	
31		5 12	6 47	8 33	18 27	Morn.	7 33	0 0	
Day	Day	Length of Day.	Helioc. Plac. ♀	Helioc. Plac. ♀	Helioc. Plac. ♂	Helioc. Plac. ☉	Helioc. Plac. ♀	Helioc. Plac. ☿	Saturn sets.
1	1 14	15 20	27 ^m 36	2 8 30	28 8 11	9 ^m 10	1 8 27	0 ^h 25	9A.19
7	1 32	15 2	27 48	3 11 3	1 23	14 55	11 4	17 50	8 57
13	1 52	14 42	28 1	3 36	4 34	20 41	20 41	6 ^m 57	8 34
19	2 14	14 20	28 13	4 9	7 42	26 28	0 11 20	28 48	8 12
25	2 35	13 59	28 25	4 42	10 49	2 15	10 0	24 38	7 52

August, 1774.

Days	Day lig. begins.		Day lig. ends.		Durat. f. wilig.		Node D in m		Lat. ♃ North.		Lat. ♄ South.		Lat. ♀ North.		Lat. ♁ South.			
	h	m	h	m	h	m	D	m	Lat.	D	h	m	h	m	h	m		
1	1	23	10	34	2	58	14	56	2	8	1	13	0	14	1	26	3	10
7	1	47	10	13	2	46	14	38	2	7	1	14	0	19	1	7	4	14
13	2	9	9	51	2	34	14	20	2	7	1	15	0	27	0	48	4	44
19	2	29	9	31	2	25	14	1	2	6	1	16	0	28	0	29	4	15
25	2	47	9	13	2	18	13	43	2	6	1	18	0	32	0	9	2	48
Days	☉ d. m. s.		☽ D II		Lat. ☽		♃ ♄		♃ ♄		♂ ♀		♀ ♁		♁ ♃			
1	9	10	18	3	14	5 S.	7	23	19	14	15	25	49	1	11	2	52	
2	10	7	46	15	8	5	12	23	25	14	21	26	29	2	21	3	7	
3	11	5	15	27	0	5	4	23	31	14	27	27	9	3	30	3	17	
4	12	2	45	8	52	4	43	23	37	14	33	29	49	4	40	3	21	
5	13	0	16	20	48	4	9	23	44	14	39	28	28	5	49	3	R 20	
6	13	57	48	2	49	3	24	23	50	14	44	29	8	6	59	3	14	
B	14	55	21	14	58	2	29	23	57	14	50	29	48	8	9	3	3	
8	15	52	55	27	15	1	27	24	3	14	55	0	52	9	19	2	46	
9	16	50	30	9	44	0	19	24	10	15	0	1	7	10	29	2	23	
10	17	48	6	22	16	0	N. 49	24	16	15	5	1	46	11	40	1	55	
11	18	45	44	5	15	1	58	24	23	15	10	2	26	12	50	1	22	
12	19	43	23	18	21	3	1	24	29	15	14	3	5	14	1	0	44	
13	20	41	3	1	43	3	56	24	36	15	19	3	45	15	12	0	2	
B	21	38	44	15	21	4	39	24	42	15	23	4	24	16	23	29	16	
15	22	36	27	29	17	5	6	24	49	15	27	5	3	17	34	28	28	
16	23	34	10	13	29	5	16	24	55	15	31	5	42	18	45	27	37	
17	24	31	55	27	58	5	6	25	2	15	35	6	21	19	56	26	43	
18	25	29	42	12	37	4	36	25	9	15	38	7	0	21	7	25	51	
19	26	27	31	27	22	3	47	25	16	15	41	7	39	22	18	25	1	
20	27	25	21	12	7	2	44	25	23	15	44	8	18	23	29	24	12	
B	28	23	14	26	44	1	30	25	30	15	47	8	56	24	40	23	25	
22	29	21	7	11	4	0	12	25	37	15	50	9	35	25	51	22	41	
23	♃	19	2	25	4	1 S.	5	25	44	15	53	10	13	27	3	22	2	
24	1	16	59	8	40	2	17	25	51	15	55	10	52	28	14	21	29	
25	2	14	57	21	52	3	18	25	58	15	57	11	30	29	26	21	2	
26	3	12	55	4	41	4	9	26	5	15	59	12	8	0	37	20	43	
27	4	10	55	17	11	4	45	26	12	16	0	12	46	1	49	20	31	
B	5	8	56	29	25	5	8	26	19	16	2	13	24	3	1	20	27	
29	6	6	59	11	12	5	18	26	26	16	3	14	2	4	13	20	D. 33	
30	7	5	4	23	23	5	13	26	33	16	4	14	40	5	25	20	47	
31	8	3	11	5	15	4	55	26	40	16	5	15	18	6	37	21	9	
Days	Jupiter rifes.		Mars rifes.		Venus rifes.		Mercu. sets.		Dec. ♃ North.		Dec. ♄ North.		Dec. ♀ North.		Dec. ♁ North.			
1	10 A.	38	0 M	39	1 M	13	8 A.	9	4	36	14	58	23	38	22	1	7	32
7	10	15	0	31	1	17	7	41	4	21	15	7	23	46	22	6	6	28
13	9	53	0	25	1	26	7	8	4	5	15	15	23	48	21	49	7	3
19	9	31	0	20	1	38	rifes.	3	49	15	21	23	43	21	10	9	11	
25	9	11	0	16	1	55	4 M	8	3	32	15	24	23	31	20	10	11	52

September hath XXX Days. White.

The LUNATIONS.

New Moon the 6th Day, 55 Minutes after 1 in the Morning.
 First Quarter the 13th Day, 33 Minutes past 5 in the Morning.
 Full Moon the 20th Day, 23 Minutes after 1 in the Morning.
 Last Quarter the 27th Day, 57 Minutes past 6 at Night.

M D	Sunday & other remark. Days.	Sun rises.	Sun sets.	Dec. ☉ North.	Dec. ☽ North.	Moon rises.	Moon South.	Clock aft. Sun
1	Giles, A. & C.	5 14	6 45	8 12	18 2	0M30	8M20	0 19
2	London burnt.	5 15	6 44	7 50	16 47	1 24	9 7	0 38
3	1666, O. S.	5 17	6 42	7 28	14 45	2 25	9 54	0 57
4	B 14 Sun. aft. Trin.	5 19	6 40	7 6	12 2	3 27	10 42	1 16
5		5 21	6 38	6 44	8 43	4 32	11 29	1 35
6		5 23	6 36	6 21	4 56	☽ sets.	0A.19	1 55
7	Dog Days end.	5 25	6 34	5 58	0 52	7A.15	1 7	2 15
8	Nativ. B.V.Ma.	5 27	6 32	5 36	3 S.20	7 41	1 55	2 35
9		5 29	6 30	5 13	7 26	8 9	2 45	2 55
10		5 31	6 28	4 51	11 11	8 40	3 37	3 15
11	B 15 Sun. aft. Trin.	5 33	6 26	4 28	14 22	9 16	4 31	3 35
12		5 35	6 24	4 5	16 45	10 1	5 27	3 56
13		5 37	6 22	3 42	18 8	10 52	6 24	4 17
14	Holy Cross Day.	5 39	6 20	3 19	18 27	11 53	7 22	4 38
15		5 41	6 18	2 56	17 33	Morn.	8 20	5 0
16		5 43	6 16	2 32	15 32	1 2	9 17	5 21
17	Lambert B.&M.	5 45	6 14	2 9	12 34	2 15	10 13	5 42
18	B 16 Sun. aft. Trin.	5 47	6 12	1 46	8 53	3 29	11 6	6 3
19		5 49	6 10	1 23	4 44	4 44	11 58	6 24
20		5 51	6 8	0 59	0 26	(rises.	Morn.	6 45
21	St. Matthew.	Ember Week.		0 36	3N.50	7A. 3	0 48	7 6
22	K. Geo. III. cro.	5 55	6 4	0 12	7 46	7 29	1 37	7 26
23		5 57	6 2	0 S.11	11 16	7 58	2 25	7 47
24		5 59	6 0	0 35	14 12	8 30	3 12	8 7
25	B 17 Sun. aft. Trin.	6 1	5 58	0 58	16 23	9 8	3 59	8 27
26	St. Cyprian M.	6 3	5 56	1 21	17 49	9 46	4 47	8 47
27		6 5	5 54	1 45	18 28	10 32	5 35	9 7
28		6 7	5 52	2 8	18 19	11 22	6 23	9 26
29	St. Michael.	Prs. Char. Aug. Mat. bor.		17 19	Morn.	7 10	9 46	9 46
30	St. Jerome.	6 11	5 48	2 55	15 34	0 18	7 57	10 6

Days	Day decreaf.	Length of Day.	Helioc. Plac. ♀	Helioc. Plac. ♀	Helioc. Plac. ♂	Helioc. Plac. ☉	Helioc. Plac. ♀	Helioc. Plac. ♀	Saturn sets.
1	3 3	13 31	28 ¹¹ 39	5 8 20	14 11 24	9 X 1	21 11 17	1 8 18	7A.28
7	3 25	13 9	28 51	5 53	17 27	14 51	0 ⁵⁵ 59	7 11 47	7 7
13	3 49	12 45	29 3	6 25	20 28	20 41	10 42	15 ⁵⁵ 18	6 46
19	4 13	12 21	29 16	6 58	23 27	26 33	20 25	19 ⁵⁵ 11	6 25
25	4 37	11 57	29 29	7 31	26 24	2 ⁵⁵ 26	0 ⁵⁵ 10	17 ¹¹ 29	rises.

September, 1774.

Days	Day lig. begins.		Day lig. ends.		Durat. Twilig.	Node ♃ in ♀	Lat. ♃ North.	Lat. ♃ South.	Lat. ♂ North.	Lat. ♀ North.	Lat. ♀ South.	
	d.	m.	d.	s.	h m	♃	♃	♃	♂	♀	♂	♀
1	3	7	8	53	2 11	13 22	2 6	1 19	0 39	0 15	0	40
7	3	24	8	36	2 6	13 3	2 6	1 20	0 44	0 30	0	N.48
13	3	37	8	23	2 4	12 44	2 6	1 21	0 50	0 45	1	37
19	3	52	8	8	2 1	12 26	2 6	1 22	0 55	0 59	1	50
25	4	5	7	55	2 0	12 7	2 6	1 22	1 1	1 10	1	38
Days	☉		♃		☽	♃	♃	♃	♂	♀	♂	♀
	d.	m.	d.	s.	h m	♃	♃	♃	♂	♀	♂	♀
1	9	1	19		17 9	4 S.24	26 48	16 6	15 56	7 47	21	39
2	9	59	30		29 7	3 41	26 55	16 7	16 34	9 12	22	17
3	10	57	42		11 14	2 49	27 2	16 7	17 11	10 14	23	4
B	11	55	56		23 33	1 47	27 9	16 R	17 49	11 26	23	59
5	12	54	12		6 4	0 40	27 16	16 7	18 26	12 38	25	0
6	13	52	30		18 49	0 N.31	27 23	16 7	19 4	13 51	26	8
7	14	50	49		1 50	1 42	27 31	16 6	19 41	15 3	27	22
8	15	49	10		15 5	2 48	27 38	16 6	20 18	16 16	28	42
9	16	47	33		28 33	3 46	27 45	16 5	20 55	17 28	0 12	8
10	17	45	58		12 14	4 33	27 53	16 4	21 32	18 41	1	39
B	18	44	25		26 5	5 4	28 0	16 2	22 9	19 54	3	14
12	19	42	54		10 6	5 17	28 7	16 1	22 46	21 7	4	53
13	20	41	23		24 13	5 12	28 15	15 59	23 23	22 20	6	35
14	21	39	56		8 27	4 47	28 22	15 57	24 0	23 33	8	18
15	22	38	30		22 45	4 5	28 30	15 55	24 37	24 46	10	3
16	23	37	6		7 3	3 8	28 37	15 53	25 13	25 59	11	50
17	24	35	44		21 17	1 59	28 45	15 50	25 50	27 12	13	39
B	25	34	24		5 28	0 43	28 52	15 48	26 26	28 25	15	30
19	26	33	6		19 27	0 S.34	29 0	15 45	27 2	29 38	17	22
20	27	31	51		3 10	1 48	29 8	15 43	27 38	0 12	19	13
21	28	30	37		16 36	2 54	29 15	15 40	28 14	2 5	21	4
22	29	29	26		29 43	3 50	29 23	15 36	28 50	3 18	22	55
23	28	16			12 31	4 32	29 31	15 32	29 26	4 32	24	45
24	1	27	8		25 1	5 0	29 38	15 28	0 1	5 46	26	35
B	2	26	1		7 16	5 14	29 46	15 24	0 37	7 0	28	24
26	3	24	57		19 19	5 14	29 53	15 19	1 12	8 14	0 12	0
27	4	23	55		15 15	5 0	0 8	15 15	1 48	9 27	2	0
28	5	22	55		13 7	4 33	0 8	15 11	2 23	10 41	3	47
29	6	21	57		25 1	3 55	0 15	15 6	2 58	11 55	5	34
30	7	21	1		7 1	3 6	0 22	15 2	3 33	13 9	7	20
Days	Jupiter rises.	Mars rises.	Venus rises.	Mercu. rises.	Dec. ♃ North.	Dec. ♃ North.	Dec. ♂ North.	Dec. ♀ North.	Dec. ♀ North.			
1	8 A.46	0 M 14	2 M 14	3 M 39	3 11	15 26	23 10	18 33	13 41			
7	8 23	0 11	2 31	3 42	2 54	15 24	22 45	16 45	13 10			
13	8 1	0 9	2 52	4 10	2 37	15 22	22 15	14 47	10 37			
19	7 40	0 7	3 12	4 50	2 20	15 18	21 40	12 35	6 41			
25	7 19	0 5	3 35	5 33	2 2	15 11	21 1	10 3	2 8			

October hath XXXI Days.

White.

The LUNATIONS.

New Moon the 5th Day, at 3 in the Afternoon.
First Quarter the 12th Day, 40 Minutes past 11 in the Morning.
Full Moon the 19th Day, 25 Minutes after 2 in the Afternoon.
Last Quarter the 27th Day, 57 Minutes past 2 in the Afternoon.

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

October, 1774.

Days	Day lig.		Durat. Twilig.	Node D in ♀	Lat. ♀		Lat. ♀		Lat. ♂		Lat. ♀		Lat. ♂	
	begins.	ends.			North.	South.	North.	North.	North.	North.	North.	North.		
4	18	7 42	1 59	11 48	2 6	1 23	1 7	1 18	0 51					
7	31	7 29	1 58	11 29	2 7	1 24	1 12	1 26	0 33					
13	43	7 17	1 57	11 9	2 7	1 24	1 19	1 31	0 S. 7					
19	55	7 5	1 57	10 50	2 8	1 25	1 25	1 32	0 48					
25	6	6 54	1 58	10 31	2 9	1 25	1 31	1 31	1 27					
Days	☉		☽		Lat. ☽	♂	♀	♂	♀	♂	♀	♂	♀	♂
	d.	m.	s.	D	Ω	♂	♀	♂	♀	♂	♀	♂	♀	♂
1	8	20	7	19	11	2 S. 8	0 30	14 57	4 8	14 23	9 5			
B	9	19	16	17	36	1 3	0 37	14 52	4 43	15 37	10 49			
3	10	18	27	14	18	0 N. 7	0 44	14 46	5 17	16 51	12 32			
4	11	17	40	27	20	1 17	0 52	14 41	5 52	18 5	14 14			
5	12	16	55	10	42	2 26	0 59	14 35	6 26	19 19	15 56			
6	13	16	12	24	22	3 27	1 6	14 29	7 1	20 33	17 37			
7	14	15	30	8	18	4 17	1 14	14 23	7 35	21 48	19 18			
8	15	14	51	22	25	4 53	1 21	14 17	8 9	23 2	20 58			
B	16	14	14	6	10	5 10	1 29	14 11	8 43	24 16	22 37			
10	17	13	39	20	58	5 9	1 36	14 4	9 17	25 31	24 15			
11	18	13	6	15	14	4 48	1 43	13 58	9 51	26 45	25 53			
12	19	12	35	19	23	4 10	1 50	13 51	10 24	28 0	27 30			
13	20	12	6	3	29	3 17	1 57	13 44	10 58	29 14	29 6			
14	21	11	38	17	26	2 13	2 5	13 37	11 31	0 29	0 m 41			
15	22	11	13	1	18	1 1	2 12	13 30	12 4	1 43	2 16			
B	23	10	51	14	59	0 S. 12	2 19	13 23	12 37	2 58	3 50			
17	24	10	31	28	31	1 25	2 26	13 15	13 10	4 13	5 24			
18	25	10	12	11	51	2 32	2 33	13 8	13 43	5 27	6 57			
19	26	9	55	24	58	3 29	2 40	13 0	14 16	6 42	8 30			
20	27	9	40	7	52	4 14	2 47	12 53	14 48	7 57	10 2			
21	28	9	28	20	30	4 46	2 53	12 45	15 21	9 11	11 34			
22	29	9	18	2	55	5 4	3 0	12 37	15 53	10 26	13 5			
B	m	9	9	15	8	5 7	3 7	12 30	16 25	11 40	14 35			
24	1	9	3	27	11	4 57	3 14	12 22	16 57	12 55	16 4			
25	2	8	59	9	20	4 34	3 21	12 14	17 29	14 10	17 33			
26	3	8	57	20	56	3 59	3 27	12 6	18 0	15 25	19 1			
27	4	8	57	2	48	3 14	3 34	11 56	18 32	16 40	20 29			
28	5	8	58	14	47	2 20	3 41	11 50	19 3	17 55	21 56			
29	6	9	1	26	56	1 19	3 48	11 42	19 35	19 10	23 23			
B	7	9	6	9	22	0 13	3 54	11 34	20 6	20 25	24 49			
31	8	9	14	22	7	0 N. 55	4 1	11 26	20 37	21 40	26 15			
Days	Jupiter		Mars		Venus		Mercur.		Dec. ♀		Dec. ♂		Dec. ♀	
	rises.		rises.		rises.	fets.	North.	North.	North.	North.	South.	South.	South.	South.
1	6 A. 57	0 M 2	3 M 52	5 A. 55	1 44	15	1	20	20	7 21	2 50			
6	6 32	11 A. 59	4 12	5 47	1 27	14	49	19	34	4 35	7 4			
13	6 9	11 55	4 32	5 37	1 10	14	37	18	35	1 42	11 17			
19	5 44	11 50	4 53	5 31	0 54	14	24	17	54	1 S. 14	15 7			
25	5 20	11 45	5 13	5 23	0 38	14	10	17	3	4 12	18 29			

November hath XXX Days.

White.

The LUNATIONS.

New Moon the 4th Day, 54 Minutes past 2 in the Morning.

First Quarter the 10th Day, 17 Minutes past 7 at Night.

Full Moon the 18th Day, 12 Minutes after 6 in the Morning.

Last Quarter the 26th Day, 45 Minutes past 10 in the Morning.

M D.	Sundays & other remark. D ays.	Sun rises.	Sun sets.	Dec. ☉ South.	Dec. ☽ South.	Moon rises.	Moon South.	Clock aft. Sun
1	All Saints.	7 12	4 47	14 34	0 12	3M36	9M49	16 14
2	Pr. Edw. born.	AllSou.	4 45	14 53	4 31	4 48	10 39	16 14
3		7 16	4 43	15 12	8 44	6 2	11 30	16 14
4		7 18	4 41	15 30	12 32	☽ sets.	0A.26	16 13
5	Papist Conspir.	7 20	4 39	15 48	15 40	6A. 4	1 23	16 11
6	23 S. aft. Trin.	7 21	4 38	16 7	17 47	6 51	2 22	16 8
7	Duk. Cum. born.	Term begins.		16 24	18 42	7 48	3 21	16 5
8	Prs. Sop. Aug. bo.	7 24	4 35	16 42	18 26	8 53	4 21	16 1
9	Lord Mayor's Day at London.	7 26	4 33	16 59	16 54	10 2	5 18	15 56
10		7 28	4 31	17 16	14 26	11 14	6 14	15 50
11	S. Martin B. & C.	7 29	4 30	17 33	11 8	Morn.	7 7	15 43
12		7 31	4 29	17 49	7 18	0 28	7 57	15 35
13	24 S. aft. Trin.	Britius.	4 27	18 5	3 10	1 39	8 45	15 26
14		7 34	4 25	18 21	IN. 5	2 51	9 33	15 16
15	Machutus.	7 36	4 23	18 36	5 12	4 3	10 20	15 5
16		7 37	4 22	18 51	9 2	5 10	11 6	14 54
17	Hugh Bp. Linc.	7 38	4 21	19 6	12 23	6 16	11 53	14 42
18		7 40	4 19	19 20	15 9	☽ rises.	Morn.	14 29
19		7 42	4 18	19 34	17 11	5A.41	0 40	14 16
20	25 S. aft. Trin.	Edm. K. & Mart.	19 48	18 25	18 25	6 22	1 27	14 1
21		7 45	4 15	20 1	18 51	7 9	2 14	13 45
22	Old Mart. Day.	7 46	4 14	20 14	18 26	8 0	3 1	13 29
23	St. Clement.	7 48	4 12	20 27	17 13	8 57	3 48	13 12
24		7 49	4 11	20 39	15 15	9 56	4 34	12 54
25	D. Glouc. born.	7 50	4 10	20 51	12 36	10 59	5 20	12 36
26		7 51	4 9	21 2	9 25	Morn.	6 4	12 18
27	Advent Sunday.	7 52	4 8	21 13	5 43	0 4	6 49	11 59
28	Term ends.	7 53	4 7	21 24	1 41	1 9	7 35	11 39
29		7 54	4 6	21 34	2 S.34	2 17	8 22	11 17
30	St. Andrew.	7 56	4 4	21 44	6 51	3 32	9 11	10 55

Day	Day decreaf.	Length of Day.	Helioc. Plac. ♀	Helioc. Plac. ♀	Helioc. Plac. ♂	Helioc. Plac. ☉	Helioc. Plac. ♀	Helioc. Plac. ♂	Saturn rises.
1	6 59	9 35	0-43	10 8 52	14 05 6	9 8 9	0-16	11 59	3M47
7	7 20	9 14	0 55	11 25	16 53	15 11 9	5 58	12 26	3 27
13	7 40	8 54	1 7	11 57	19 40	21 13	19 38	21 18	3 6
19	7 58	8 36	1 19	12 29	22 25	27 17	29 17	15 38	2 45
25	8 14	8 20	1 31	13 2	25 5	3 11 21	8m54	14 51	2 23

November, 1774.

Days	Day lig. begins.		Day lig. ends.		Durat. Twilig.	Node in ϖ	Lat. $\frac{1}{2}$ North.		Lat. $\frac{1}{4}$ South.		Lat. $\frac{1}{8}$ North.		Lat. $\frac{1}{16}$ North.		Lat. $\frac{1}{32}$ South.	
	d.	m.	d.	m.			D	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{16}$	$\frac{1}{32}$	$\frac{1}{64}$	$\frac{1}{128}$	$\frac{1}{256}$	$\frac{1}{512}$	$\frac{1}{1024}$
1	5	17	6	43	1 59	10 8	2 10	1 24	1 39	1 27	2 5					
7	5	25	6	35	2 2	9 48	2 11	1 24	1 46	1 21	2 28					
13	5	34	6	26	2 3	9 28	2 12	1 23	1 54	1 13	2 37					
19	5	41	6	19	2 5	9 8	2 13	1 22	2 2	1 2	2 22					
25	5	48	6	12	2 7	8 48	2 14	1 21	2 10	0 51	1 30					
Days	\odot		m		D	Lat. D	$\frac{1}{2}$		$\frac{1}{4}$		$\frac{1}{8}$		$\frac{1}{16}$		$\frac{1}{32}$	
	d.	m.	d.	m.			$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{8}$	$\frac{1}{16}$	$\frac{1}{32}$	$\frac{1}{64}$	$\frac{1}{128}$	$\frac{1}{256}$	$\frac{1}{512}$	$\frac{1}{1024}$
1	9	9	24		5 18	2N. 3	4 8	11 18	21 8	22 55	27 40					
2	10	9	35		18 53	3 5	4 15	11 9	21 38	24 11	29 4					
3	11	9	48		2m 53	3 58	4 21	11 1	22 9	25 26	o f 28					
4	12	10	2		17 14	4 38	4 28	10 53	22 39	26 41	1 50					
5	13	10	18		1 f 50	5 0	4 35	10 45	23 0	27 56	3 11					
B	14	10	36		16 34	5 2	4 41	10 37	23 30	29 11	4 31					
7	15	10	55		1b 16	4 45	4 47	10 29	24 8	om 26	5 50					
8	16	11	15		15 50	4 9	4 53	10 21	24 37	1 41	7 8					
9	17	11	38		o 12	3 18	4 59	10 13	25 5	2 57	8 25					
10	18	12	3		14 18	2 15	5 5	10 5	25 34	4 12	9 40					
11	19	12	30		28 9	1 6	5 11	9 57	26 3	5 27	10 53					
12	20	12	59		11 44	o S. 6	5 17	9 49	26 31	6 42	12 4					
B	21	13	28		25 5	1 16	5 23	9 41	27 0	7 58	13 13					
14	22	14	0		8 16	2 21	5 29	9 34	27 28	9 13	14 20					
15	23	14	33		21 14	3 18	5 35	9 26	27 56	10 28	15 24					
16	24	15	8		4 1	4 4	5 40	9 18	28 23	11 44	16 25					
17	25	15	44		16 36	4 37	5 46	9 11	28 51	12 59	17 22					
18	26	16	21		29 2	5 56	5 52	9 3	29 18	14 14	18 14					
19	27	16	59		11 17	5 1	5 58	8 56	29 45	15 30	19 2					
B	28	17	40		23 22	4 53	6 3	8 49	om 12	16 45	19 44					
21	29	18	22		5 20	4 31	6 9	8 41	0 38	18 0	20 20					
22	f	19	5		17 12	3 58	6 15	8 34	1 4	19 16	20 50					
23	1	19	50		29 2	3 15	6 20	8 27	1 30	20 31	21 12					
24	2	20	36		10 53	2 23	6 25	8 20	1 55	21 46	21 26					
25	3	21	22		22 49	1 25	6 30	8 13	2 21	23 2	21 31					
26	4	22	11		4 56	0 22	6 35	8 7	2 46	24 17	21R 26					
B	5	23	2		17 18	o N. 44	6 40	8 0	3 10	25 33	21 10					
28	6	23	53		o 2	1 49	6 45	7 54	3 35	26 48	20 43					
29	7	24	46		13 10	2 50	6 50	7 48	3 59	28 4	20 5					
30	8	25	40		26 48	3 44	6 54	7 42	4 23	29 19	19 17					
Days	Jupiter rises.		Mars rises.		Venus rises.	Mercu. sets.	Dec. $\frac{1}{2}$ North.	Dec. $\frac{1}{4}$ North.	Dec. $\frac{1}{8}$ North.	Dec. $\frac{1}{16}$ South.	Dec. $\frac{1}{32}$ South.					
1	4A.	52	11A.	39	5M 34	5A. 16	0 20	13 54	16 2	7 36	21 42					
7	sets.		11	32	5 53	5 13	0 5	13 40	15 8	10 25	23 44					
13	6M 31		11	24	6 12	5 11	o S. 8	13 26	14 17	13 25	2 2					
19	6	4	11	15	6 30	5 8	0 20	13 12	13 20	15 29	25 23					
25	5	34	11	4	6 49	4 59	0 33	13 0	12 43	17 45	24 42					

December hath XXXI Days. White.

The LUNATIONS.

New Moon the 3d Day, 52 Minutes after 1 in the Afternoon.
First Quarter the 10th Day, 21 Minutes past 5 in the Morning.
Full Moon the 17th Day, 16 Minutes after Midnight.
Last Quarter the 26th Day, 29 Minutes past 4 in the Morning.

M D.	Sundays & other remark. Days.	Sun rises.	Sun sets.	Dec. ☉ South.	Dec. ☽ South.	Moon rises.	Moon South.	Clock aft. Sun	
1		7 57	4 3	21 53	10 50	4M 47	10M 2	10 32	
2		7 58	4 2	22 52	14 24	6 2	10 58	10 8	
3	B 2 S. in Advent.	7 59	4 1	22 11	17 14	) sets.	11 55	9 44
4		8 0	4 0	22 19	18 36		5A. 25	0A. 58	9 19
5		8 0	4 0	22 27	18 51	6 28	2 0	8 54	
6	Nicholas Bp.	8 1	3 59	22 34	17 44	7 37	3 0	8 28	
7		8 2	3 58	22 41	15 29	8 52	3 59	8 2	
8	Concep. B. V. M.	8 3	3 57	22 47	12 19	10 6	4 54	7 30	
9		8 4	3 56	22 53	8 31	11 22	5 46	7 9	
10		8 5	3 55	22 59	4 21	Morn.	6 34	6 42	
11	B 3 S. in Advent.	8 5	3 55	23 4	0 5	0 33	7 21	6 14	
12		8 6	3 54	23 8	4N. 4	1 42	8 8	5 46	
13	Lucy V. & M. Ember Week.	8 6	3 54	23 12	8 0	2 51	8 54	5 18	
14		8 6	3 54	23 16	11 30	3 57	9 40	4 49	
15		8 7	3 53	23 10	14 25	5 1	10 26	4 20	
16	Camb. T. ends.	8 7	3 53	23 22	16 42	6 3	11 12	3 50	
17	Oxf. T. ends.	8 7	3 53	23 24	13 12	7 1	11 59	3 20	
18	B 4 S. in Advent.	8 8	3 52	23 26	18 55	) rises.	Morn.	2 50
19		8 8	3 52	23 27	18 46		5A. 40	0 45	2 20
20		8 8	3 52	23 28	17 48	6 36	1 32	1 50	
21	St. Thomas.	Shortest Day.		23 28	16 4	7 35	2 19	1 20	
22		8 8	3 52	23 28	13 39	8 35	3 5	0 50	
23		8 8	3 52	23 27	10 38	9 38	3 50	0 20	
24		8 8	3 52	23 26	7 8	10 43	4 35	0 b. 11	
25	B Christmas Day.	8 7	3 53	23 25	3 16	11 49	5 19	0 41	
26	St. Stephen.	8 7	3 53	23 23	0 S. 50	Morn.	6 3	1 10	
27	St. John Evang.	8 7	3 53	23 20	5 2	0 57	6 49	1 41	
28	Holy Innocents.	8 6	3 54	23 17	9 4	2 8	7 37	2 10	
29		8 6	3 54	23 14	12 49	3 22	8 28	2 39	
30		8 5	3 55	23 10	15 54	4 36	9 23	3 8	
31	Silvester Bp.	8 4	3 56	23 5	18 1	5 51	10 22	3 37	
Days	Day deceaf.	Length of Day.	Helioc. Plac. ♀	Helioc. Plac. ♀	Helioc. Plac. ♂	Helioc. Plac. ☉	Helioc. Plac. ♀	Helioc. Plac. ♀	Saturn rises.
1	8 28	8 6	1 43	13 8 35	27 53	9 11 27	18 11 30	19 8 18	2M 0
7	8 38	7 56	1 55	14 7	0 35	15 32	28 4	26 11 56	1 36
13	8 46	7 48	2 7	14 40	3 17	21 39	7 4 36	3 3 4	1 11
19	8 49	7 45	2 19	15 12	5 58	27 46	17 7	4 11 10	0 46
25	oinc. 2	7 46	2 31	15 44	8 38	3 25 53	26 38	29 50	0 20

December, 1774.

Days	Day lig.		Durat. Twilig.	Node D in m°	Lat. H		Lat. U		Lat. J		Lat. Q		Lat. S			
	begins.	ends.			North.	South.	North.	North.	North.	North.	North.	North.	North.			
1	5 54	6 6	2 8	8 28	2 15	1 19	2 10	0 39	0 11							
7	5 57	6 3	2 10	8 8	2 17	1 18	2 28	0 25	2 7							
13	5 59	6 1	2 12	7 48	2 18	1 16	2 38	0 11	2 53							
19	6 1	5 59	2 11	7 28	2 20	1 14	2 48	0 S. 4	2 37							
25	6 1	5 50	2 11	7 7	2 22	1 12	2 58	0 18	1 56							
Days	\odot		D	M	Lat. D	H		U		J		Q		S		
	d.	m.				s.	R	R	R	R	R	R	R	R		
1	9	26	35	10 54	4N.29	6 59	7 36	4 46	0 35	18	18					
2	10	27	31	25 28	4 53	7 4	7 30	5 9	1 50	17	9					
3	11	28	27	10 22	5 0	7 8	7 25	5 31	3 6	15	54					
B	12	29	24	25 29	4 47	7 13	7 19	5 54	4 21	14	34					
5	13	30	23	10 36	4 13	7 18	7 14	6 16	5 37	13	12					
6	14	31	23	25 33	3 23	7 22	7 9	6 38	6 53	11	48					
7	15	32	24	10 14	2 19	7 26	7 4	7 0	8 8	10	26					
8	16	33	26	24 34	1 8	7 30	6 59	7 21	9 24	9	12					
9	17	34	29	8 29	0 S. 5	7 34	6 54	7 41	10 39	8	7					
10	18	35	33	22 4	1 16	7 38	6 50	8 2	11 55	7	12					
B	19	36	37	5 18	2 21	7 42	6 46	8 22	13 10	6	27					
12	20	37	41	18 15	3 18	7 45	6 42	8 42	14 26	5	52					
13	21	38	46	0 59	4 4	7 49	6 39	9 1	15 41	5	28					
14	22	39	52	13 31	4 37	7 53	6 35	9 20	16 57	5	17					
15	23	40	50	25 50	4 56	7 56	6 31	9 38	18 13	5	14					
16	24	42	6	8 11 3	5 2	8 0	6 28	9 56	19 28	5D.21						
17	25	43	13	20 58	4 54	8 3	6 25	10 13	20 44	5	37					
B	26	44	21	20 5	4 33	8 6	6 22	10 30	21 59	6	1					
19	27	45	30	13 58	4 0	8 9	6 20	10 47	23 15	6	33					
20	28	46	39	25 47	3 17	8 12	6 17	11 3	24 30	7	12					
21	29	47	49	7 39	2 25	8 15	6 15	11 19	25 46	7	56					
22	30	48	58	19 29	1 27	8 18	6 13	11 34	27 1	8	45					
23	1	50	8	1 25	0 25	8 20	6 11	11 49	28 17	9	39					
24	2	51	19	13 32	0 N.40	8 23	6 10	12 3	29 32	10	37					
B	3	52	30	25 52	1 44	8 26	6 9	12 16	0 48	11	39					
26	4	53	41	8 32	2 45	8 28	6 8	12 29	2 3	12	44					
27	5	54	52	21 35	3 39	8 31	6 7	12 41	3 19	13	52					
28	6	56	3	5 5	4 24	8 33	6 7	12 53	4 34	15	2					
29	7	57	14	19 5	4 53	8 35	6 6	13 4	5 50	16	14					
30	8	58	26	3 35	5 5	8 37	6 6	13 15	7 5	17	28					
31	9	59	38	18 29	4 58	8 39	6D. 6	13 25	8 21	18	44					
Days	Jupiter		Mars		Venus	Mercur.	Dec. H		Dec. U		Dec. J		Dec. Q		Dec. S	
	fets.	rises.	fets.	rises.			fets.	South.	North.	North.	South.	South.	South.			
1	5M 4	10A.51	7M 6	4A.33		0 43	12 49	11 57	19 41	22 50						
7	4 35	10 37	7 20	rises.		0 50	12 40	11 12	21 17	19 58						
13	4 7	10 22	7 36	6M 28		0 58	12 34	10 37	22 32	18 25						
19	3 39	10 5	7 48	6 9		1 9	12 29	10 16	23 22	18 52						
25	3 12	9 46	7 56	6 11		1 22	12 27	10 18	23 46	20 19						



Of the ECLIPSES this YEAR, 1774.

THERE will be but two Eclipses, which will happen in the following Order :

The first Eclipse is of the Sun, and will happen on Saturday the 12th Day of MARCH, near our Ten o'Clock in the Morning; but will be invisible to us, and to all the Inhabitants of these Parts of the Earth.

Although at the Time of this Eclipse, the Sun will have a considerable Altitude above our Horizon, yet the Moon's Parallax of Latitude, (which is always South in these Parts of the Globe) will depress her too low, to interpose between the Sun and us.

The second Eclipse is likewise of the Sun, and will happen on Tuesday the Sixth Day of SEPTEMBER, near our Two o'Clock in the Morning: Consequently Invisible to us and to all these Parts of the Globe. But will be Visible and a large Eclipse in the Eastern Parts of Asia.

Speculum Phænomenorum ad Annum 1774.

Days	JANUARY.	Days	MARCH.	Days	MAY.
300	♂ ♀ ☽ 19h.	13	♂ ♀ ☽ 21h.	10	♂ ☉ ☽ 3h.
10	☽ in Perigeo.	16	♂ in Perihelio.	12	☽ in Apogeo.
10	♂ ♀ ☽ 4h.	18	☽ in Apogeo.	14	♂ ♀ ☽ 9h.
10	♀ Elong. max. à ☉	19	♂ ♀ ☽ 4h.	15	♂ ♀ ☽ 16.
—	Vesp. 47° 8' sets.	20	☉ in ♀ oh. 44m.	16	♂ ♂ ☽ 17.
—	4h. 24m. after him.	22	♂ ☉ ♀ 22h.	20	♂ ♀ ☽ oh.
11	♂ ☉ ☽ 21h.	24	♂ Elong. max. à ☉	20	☉ ☽ 14h. 16m.
11	♀ Elong. max. à ☉	—	Vesp. 18° 40' sets 1h.	26	☽ in Perigeo.
—	Mat. 23° 44', rises	26	53m. after him.	Days	JUNE.
—	1h. 38m. before him.	—	♂ ♀ ☽ 8h.	1	♀ Elong. max. à ☉
12	♂ ♂ ☽ 1h.	Days	—	—	Mat. 45° 48', rises 1h.
15	♂ ♀ ☽ 11h.	—	—	—	37' min. before him.
17	♂ ♀ ☽ 2h.	1	—	4	♂ ♀ ☽ 15h.
19	☉ in ☽ 9h. 17m.	1	☽ in Perigeo.	5	♂ ♀ ☽ 3h.
21	♂ ☉ ♂ 21h.	8	♂ ♂ ♀ 15h.	6	♂ ♂ ☽ 3h.
21	♀ in ☽.	9	♂ ♀ ☽ 13h.	7	♀ in ☽.
22	☽ in Apogeo.	10	♂ ♂ ☽ 2h.	8	♂ ♂ ☽ 4h.
31	♀ in Aphelio.	10	♂ ☉ ☽ 12h.	8	♂ ☽ ☽ 18h.
Days	FEBRUARY.	10	♂ ♀ ☽ 14h.	9	☽ in Apogeo.
5	☽ in Perigeo.	10	♂ ♀ ☽ 15h.	8	♀ in Perihelio.
9	♂ ♀ ☽ 10h.	10	♂ ♀ ☽ 15h.	9	♂ ♀ ☽ 8h.
10	♂ ♂ ☽ 1h.	10	♂ ♀ ☽ 15h.	12	☽ in Apogeo.
10	♂ ☉ ☽ 9h.	11	♂ ♀ ☽ 17h.	12	♀ in Perihelio.
13	♂ ♀ ☽ 15h.	11	♂ ☉ ♀ 6h.	13	♂ ♀ ♀ 8h.
13	♂ ♀ ☽ 21h.	15	♂ ☉ ♀ 17h.	16	♂ ☉ ♂ 9h.
18	☉ ☽ oh. 14m.	19	☽ in Apogeo.	20	♂ ♀ ☽ 8h.
18	♂ ♂ ♀ 19h.	19	♀ in ☽.	23	☉ in ☽ 23h. 1m.
19	☽ in Apogeo.	22	☉ in ☽ 13h. 35m.	—	☽ in Perigeo.
26	♂ ☉ ♀ 10h.	22	♂ ♀ ☽ 15h.	Days	JULY.
27	♂ ♀ ☽ 3h.	25	♂ ♂ ♀ 5h.	2	♂ ♀ ☽ 20h.
Days	MARCH.	29	☽ in Perigeo.	4	♂ ♀ ☽ 11h.
4	☽ in Perigeo.	29	♀ in Aphelio.	5	♂ ♂ ☽ 2h.
11	♂ ♂ ☽ 1h.	Days	—	6	☽ in Apogeo.
11	♂ ☉ ☽ 22h.	6	—	8	♂ ☉ ☽ 9h.
11	♀ in ☽.	7	—	10	♂ ♀ ☽ 15h.
13	♂ ♂ ☽ 1h.	8	♂ ♀ ☽ 9h.	13	♂ ♀ ☽ 17h.
13	♂ ♀ ☽ 4h.	8	♂ ♂ ☽ 20h.	16	♀ in ☽.
13	♂ ♀ ☽ 17h.	8	♂ ♂ ☽ 3h.	20	♂ ♂ ♀ 18h.
—	—	9	♂ ♀ ☽ 9h.	20	☽ in Perigeo.
—	—	—	♀ Elong. max. à ☉	21	♀ Elong. max. à ☉
—	—	—	Mat. 25° 57' rises	—	Vesp. 27° 4' sets. 1h.
—	—	—	33 min. before him.	—	3m. after him.

Speculum Phaenomenorum ad Annum 1774.

Days	JULY.	Days	SEPTEMBER.	Days	NOVEMBER.
22	☉ in ♍ 9h. 51m.	8	♃ in Perihelio.	2	♃ ♀) 10h.
26	♃ in Aphelio.	13	) in Perigeo.	3	♃ ☉) 15h.
30	♃ ♀) 1ch.	21	♃ ☉ ♀ 21h.	5	♃ ♀) 2h.
Days	AUGUST.	22	☉ in ♌ 12h. 28m.	7	(in Perigeo.
		23	♃ ♀) 6h.	16	♃ Elong. max. à ☉
3	) in Apogeo.	25	♃ ♀) 19h.	—	Vesp. 22° 10' sets
3	♃ ♂) 0h.	27	) in Apogeo.	—	41 min. after him.
3	♃ ♀) 14h.	29	♃ ♂) 17h.	16	♃ ♀) 10h.
7	♃ ☉) 0h.	30	♃ ☉ ♀ 0h.	21	☉ in ♀ 16h. 27m.
8	♃ ♀) 10h.	Days	OCTOBER.	21	) in Apogeo.
16	♃ ♀) 4h.			25	♃ ♂) 20h.
17	) in Perigeo.	3	♃ ♀) 3h.	28	♃ ♀) 12h.
18	♃ ☉ ♀ 5h.	4	♃ ♀) 7h.	30	♃ in ☉
22	☉ in ♍ 16h. 7m.	5	♃ ☉) 3h.	Days	DECEMBER.
26	♃ ♀) 22h.	5	♃ ♀) 10h.		
30	) in Apogeo.	11	) in Perigeo.	2	♃ ♀) 11.
31	♃ ♂) 22h.	12	♃ in ☉	3	♃ ☉) 2h.
Days	SEPTEMBER.	15	♃ ♀ ♀ 10h.	3	♃ ♀) 9h.
		20	♃ ♀) 9h.	4	♃ ☉ ♀ 21h.
2	♃ ♀) 22h.	22	♃ in Aphelio.	5	♃ in Perihelio.
3	♃ in ☉	22	☉ in ♍ 2ch. 20m.	5	) in Perigeo.
4	♃ Elong. max. à ☉	25	) in Apogeo.	7	♃ ♀ ♀ 22h.
—	Mat. 17° 54' rises	28	♃ ♂) 9h.	13	♃ ♀) 11h.
—	1h. 39m. before him.	31	♃ ♀) 22h.	19	) in Apogeo.
4	♃ ♀) 1h.			21	☉ in ♄ 4h. 47m.
5	♃ ☉) 14h.			23	♃ ♂) 21h.
6	♃ ♀) 16h.			24	♃ Elong. max. à ☉
				—	Mat. 22° 14' rises
				—	1h. 58m. before him.
				26	♃ ♀) 0h.
				31	♃ ♀) 0h.

A Table of the Eclipses of JUPITER's first Satelles, reduced to correct or apparent Time, 1774. White.

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

A Table of the Eclipses of JUPITER's first Satelles, reduced
to correct or apparent Time, 1774. White.

OCTOBER.				NOVEMBER				NOVEMBER.				DECEMBER.			
Immertions.				Immertions.				Emerfions.				Emerfions.			
d.	h.	m.	s.	d.	h.	m.	s.	d.	h.	m.	s.	d.	h.	m.	s.
14	6	39	0	2	17	55	34	22	7	16	1	8	5	28	58
16	1	7	56	Emerfions.				24	1	44	15	9	23	56	59
17	19	36	50	4	14	31	59	25	20	12	27	11	18	24	50
19	14	5	43	6	9	0	31	27	14	40	37	13	12	53	45
21	8	34	34	8	3	29	4	29	9	8	45	15	7	20	57
23	3	3	22	9	21	57	34	DECEMBER.				17	1	48	54
24	21	32	8	11	16	26	1	Emerfions.				18	20	16	51
26	16	0	53	13	10	54	26	1	3	36	50	20	14	44	48
28	10	29	37	15	5	22	49	2	22	4	54	22	9	12	45
30	4	58	19	16	23	51	9	4	16	32	56	24	3	40	43
31	23	26	58	18	18	19	28	6	11	0	57	25	22	8	42
				20	12	47	45					27	16	36	42
												29	11	4	42
												31	5	32	42

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 15th Day of December this Year, the Time of the Emerfion of Jupiter's first Satelles be observed (by a Telescope) in an unknown Meridian, to happen at 10 h. 15 min. 57 sec. at night; I find by the Table, that the Time of this Emerfion will happen (at the British Observatory) at 7 h. 20 min. 57 sec. the same Night: The Difference of the Times is 2 hours 55 min. which being converted into Degrees and Minutes of the Equator, will make 43 deg. 45 min. the Longitude of the Place of Observation to the East; because the Time is more than that at the British Observatory.

A TABLE of the Times of High-Water at LONDON-BRIDGE
in the Morning and Afternoon of every Day in the Year
1774. White.

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

This Table may serve the following Places, by adding,

	h.	m.
For Timmouth Haven, Hartle-pool, and Amsterdam	0	30
Brest	—	1
Scilly	—	1
Mount's Bay	—	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 1774. White.

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

	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
1774. White.

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

Subtract.

h. m.

For Leigh, Maes, and Gouries Gut	—	—	—	—	0 5
Gravensend, Rochester, and Rammekins	—	—	—	—	1 20
Buoy of the Nore and Flushing	—	—	—	—	1 30
Portsmouth, Ostend, Shoe-Beacon, 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
 vifible 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	29
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 femi-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	45	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	3	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 Cafes, 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, Semidurnal 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.			Semidurnal Arches.			Declination.			Magn.
		h.	m.	s.	h.	m.	s.	d.	m.	s.	
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	37 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	38 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, Deneb.	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	50	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	16	15	20	3	34	18	25	53	59 S	1
In the Head of Serpentarius.	α	17	24	12	7	9	56	22	44	10 N	2
Bright Star in the Haro Lyra.	α	18	29	7	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, Egmalthant.	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.

Degr.	Υ	Ϟ	♏	♐	♑	♒
	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

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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 46
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 ALDEBARAN, Jan. 9, 1774.

Place of the Sun at Noon	—	—	—	—	19	25
					h.	m.
Right Ascension of ALDEBARAN	—	—	—	—	4	22 43
Right Ascension of the Sun subtract	—	—	—	—	19	24 6
Estimate Time of the Star's Southing	—	—	—	—	8	58 37
Right Ascension of the Sun at that Time subtract	—	—	—	—	19	25 44
True Time of the Star's Southing	—	—	—	—	8	56 59
Semidiurnal Arch subtract and add	—	—	—	—	7	28 44
True Time of the Star's Visible Rising <i>Astern.</i>	—	—	—	—	1	28 15
True Time of the Star's visible Setting	—	—	—	—	16	25 43

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