

ἌΤΛΑΣ ΟΥΡΑΝΙΟΣ,

The COELESTIAL ATLAS;

OR, A NEW

E P H E M E R I D S

For the YEAR of our LORD 1776.

Being the

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.

Οἱ ἄγαθοὶ διηγῶνται δοξάν Θεῶ.

The TWENTY-SEVENTH IMPRESSION.

L O N D O N :

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Chronological Notes for the Year 1776.

Golden Number	10	Septuagesima Sunday	Feb. 4
Cycle of the Sun	21	Shrove Sunday	Feb. 18
The Epact	9	Easter Day	April 7
Dominical Letters	G F	Whit-Sunday	May 26
Number of Direction	17	Trinity Sunday	June 2
Roman Indiction	9	Advent Sunday	Dec. 1

Astronomical CHARACTERS explained.

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

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

Of the Four Quarters of the YEAR 1776.

THE Spring Quarter begins on the 19th Day of March, at 22 Minutes past Midnight, apparent Time.
 The Summer Quarter begins June the 20th, 38 Minutes past 10 at Night.
 The Autumnal Quarter begins Sept. the 22d, 6 Minutes past Noon.
 The Winter Quarter begins Decemb. 21st, 23 Minutes past 4 in the Morning.

THE beautiful Planet VENUS will be a Morning Star to the 10th Day of August, at which Time she becomes an Evening Star, and so continues to the Year's End.

JUPITER will be an Evening Star, from the beginning of the Year, until the 24th Day of June; at which Time he becomes a Morning Star, and so continues to the Year's End.

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

Constellations.	Bay.Ch.	Longitude.			Latitude.			Magni.	Constellations.	Bay.Ch.	Longitude.			Latitude.			Magni.
		°	'	''	°	'	''				°	'	''	°	'	''	
♋	♄	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	31	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.	1
	♆	26	38	28	4	0	37 B.	3		♆	1	9	0	2	55	40 B.	4
♍	♄	2	25	54	5	46	22 A.	3	♍	♄	11	45	0	0	22	51 B.	2
	♅	5	5	31	2	35	58 A.	3.4		♅	21	47	13	4	25	27 B.	3.4
	♆	6	25	20	5	29	49 A.	1		♆	24	0	58	4	2	52 B.	4
♎	♄	13	25	56	1	14	34 A.	4	♎	♄	26	31	24	3	30	4 B.	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
Athens in Greece — —	1	35	30	A.	38	5	0
Babylon in Egypt, Grand Cairo	2	5	45	A.	30	2	30
Berlin in Brandenburg — —	0	53	50	A.	52	33	0
Cape of Good Hope in Africa	1	8	0	A.	34	15	0
Cadiz in Spain — —	0	24	28	S.	36	33	30
Carthagena in America — —	5	0	46	S.	10	26	0
Copenhagen in Denmark — —	0	51	0	A.	55	40	45
Dantzick in Poland — —	1	15	12	A.	54	22	0
Island of St. Helen — —	0	24	0	S.	15	55	0
Jerusalem — — —	2	21	20	A.	31	55	0
London at St. Paul's — —	0	0	20	S.	51	30	40
Lisbon in Portugal — —	0	36	50	S.	38	42	30
Moscow in Russia — —	2	41	20	A.	55	36	0
Naples in Italy — —	0	58	40	A.	40	50	45
Observatory at Greenwich — —	0	0	0	—	51	28	30
Observatory at Paris — —	0	9	20	A.	48	50	10
Oxford — — —	0	5	4	S.	51	45	0
Petersburg in Russia — —	2	1	20	A.	60	0	0
Pekin in China — — —	7	45	20	A.	39	54	0
Porto Bello in America — —	5	19	20	S.	9	33	5
Prague in Bohemia — —	0	59	0	A.	50	4	30
Rome, the Metropolis of Italy	0	50	0	A.	41	54	0
Rochelle in France — —	0	5	4	S.	46	9	53
Smyrna in Turkey — —	1	49	19	A.	38	28	7
Teneriff Mountain — —	1	6	12	S.	28	23	27
Terra del Gada in Madagafcar	2	58	0	A.	19	29	0
Tornea in Lapland — —	1	35	15	A.	65	50	50
Venice in Italy — —	0	48	18	A.	45	25	0
Vienna in Austria — —	1	5	30	A.	48	12	48
Upsal in Sweden — —	1	11	0	A.	59	51	50

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		Feverham
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		Westminster
James II.	1633	1685 Feb. 6	4 0 7	67	Abdicated.	St. Germain
Mary II.	1662	1689 Feb. 13	5 10 15	32		Westminster
William III.	1650	1689 Feb. 13	13 0 23	52	Kill'd by a Fall 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 3	77		Westminster
George III.	1738	1760 Oct. 25	Whom God prosper.			

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

A TABLE of the most Reverend, Right Reverend, and Reverend, the BISHOPS and DEANS, exercising Ecclesiastical Jurisdiction, 1776.

BISHOPS.	Sees.	Date.	Succeeded.	DEANS.
H. Dr. F. Cornwallis Arch-Bishop	<i>Litch & Cov.</i>	1749	Smallbroke de.	Dr. J. Cornwallis
	Canterb. A. B.	1768	Secker deceas.	
H. Dr. R. Drummond Arch-Bishop	<i>St. Asaph</i>	1748	Listle transl.	Dr. J. Fountayne
	<i>Salisbury</i>	1761	Thomas transl.	
Dr. Rich. Terrick	York A. B.	1761	Gilbert deceas.	Rt. Rev. Dr. Thomas Newton
	<i>Peterborough</i>	1757	Thomas transl.	
Dr. John Egerton	London	1764	Ofbaldeston de.	Dr. Dampier
	<i>St. David's</i>	1744	Willes transl.	
Dr. John Thomas	Durham	1752	Trevor deceas.	Dr. Ogle
	<i>Peterborough</i>	1747	Clavering dec.	
Lord J. Beauclerk	<i>Salisbury</i>	1757	Gilbert transl.	Dr. Wetherell
	Winchester	1761	Hoadley dec.	
Dr. Edmund Keene	Hereford	1746	Egerton deceas.	Dr. Hugh Thomas
	<i>Landaff</i>	1738	Harris deceas'd	
Sir W. Ashburnham	<i>Chichester</i>	1752	Peploe deceas'd	Dr. Harward
	Ely	1771	Mawson dec.	
Dr. John Hume	Chichester	1754	Mawson transl.	Dr. Tho. Green
	<i>Bristol</i>	1756	Conybeare dec.	
Dr. Philip Yonge	<i>Oxford</i>	1758	Secker tr.	Dr. Thom. Lloyd
	<i>Salisbury</i>	1766	Thomas tr.	
Dr. Will. Warburton	<i>Bristol</i>	1758	Hume translat.	Dr. Josiah Tucker
Dr. John Green	Norwich	1761	Hayter transl.	Bishop Yorke
Dr. Thomas Newton	Gloucester	1759	Johnson transl	Dr. Cutts Barton
Hon. Dr. Fred. Keppel	Lincoln	1761	Thomas tran.	Dr. Jer. Milles
Dr. Robert Lowth	Bristol	1761	Yonge transl.	Bishop Markham
	Exeter	1761	Lavington dec.	
Dr. Charles Mofs	<i>St. David's</i>	1766	Squire deceas.	Ld. Fr. Seymour
	Oxford	1766	Hume transl.	
Dr. J. Shipley	<i>St. David's</i>	1766	Clagget transl.	Dr. W. D. Shipley
Dr. Edmund Law	Bath & Wells	1774	Willes deceas'd	Dr. Tho. Wilson
Dr. S. Barrington	St. Asaph	1769	Newcome dec.	J. Fulham, M.A.
Dr. John Hinchliffe	Carlisle	1769	Lyttelton dec.	Dr. Ch. Tarrant
Dr. Will. Markham	Landaff	1769	Shipley transl.	Dr. Will. Smith
Hon. Dr. B. North	Peterborough	1769	Lamb dec.	Hon. W. Digby
	Chester	1771	Keene translat.	
Hon. Dr. James Yorke	<i>Litch. & Cov.</i>	1768	Cornwallis tr.	, Prec.
	Worcester	1775	Johnson deceas.	
Dr. John Thomas	St. David's	1774	Mofs transl.	Dr. J. Addenbrook
Dr. Hurd	Rochester	1774	Pearce dec.	
Dr. Moore	Litch & Cov.	1775	B. North tr.	Dr. Tho. Lloyd
	Bangor	1775	Ewer deceas'd	
Dr. Rich ^d Richmond	Westminster	1768		Dr. John Thomas
	Sodor & Man	1773	Hildesley dec.	
	Windfor	1765	Rt. Rev.	
				Dr. Fied. 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 James Eyre, Knt.
 Exchequer } Sir John Burland, Knt. Sir Beaumont Hotham, Knt.
- Edw. Thurloe, Esq; Att. Gen. Alex. Wedderburn, Esq; Sol. Gen.

A TABLE of TERMS and their RETURNS.

Hilary Term begins Jan. 23, ends Feb. 12.

Returns or Effoign-days.		Exc.	Ret.	Ap.	W. D.
In eight Days of St. Hilary,	Jan. 20	21	22	23	Tuesday
From the Day of St. Hilary in 15 Days	27	28	29	30	Tuesday
On the Morrow of the Purif. Blessed Mary, Feb.	3	4	5	6	Tuesday
In eight Days of the Purif. of Blessed Mary,	9	10.	11	12	Monday

Easter Term begins April 24, ends May 20.

From the Day of Easter in 15 Days,	April 21	22	23	24	Wedn.
From the Day of Easter in 3 Weeks,	28	29	30	M.1	Wedn.
From the Day of Easter in 1 Month,	May 5	6	7	8	Wedn.
From the Day of Easter in 5 Weeks,	12	13	14	15	Wedn.
On the Morrow of the Ascension,	17	18	19	20	Monday

Trinity Term begins June 7, ends June 26,

On the Morrow of the Holy Trinity,	June 3	4	5	7	Friday.
In 8 Days of the Holy Trinity,	9	10	11	12	Wedn.
In 15 Days of the Holy Trinity,	16	17	18	19	Wedn.
In 3 Weeks of the Holy Trinity,	23	24	25	26	Wedn.

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

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

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

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

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

January hath XXXI Days. White.

The LUNATIONS, apparent Time.

Full Moon the 5th Day, 29 Minutes past 7 at Night.
 Last Quarter the 13th Day, 47 Minutes after Midnight.
 New Moon the 21st Day, 36 Minutes past 2 in the Morning.
 First Quarter the 27th Day, 15 Minutes after 6 at Night.

M D.	Sundays & other remark. Days.	Sun rises.	Sun sets.	Dec. ☉ South.	Dec. ☽ North.	Moon sets.	Moon south.	Clock bef. Sun
1	Circumcision.	8 4	3 56	23 2	12 52	3M. 9	8A. 48	4 1
2		8 4	3 56	22 57	16 c	4 19	9 37	4 29
3		8 3	3 57	22 51	18 18	5 26	10 28	4 57
4		8 2	3 58	22 45	19 39	6 27	11 18	5 25
5	Old Christ. Day.	8 1	3 50	22 38	20 2	☽ rises.	Morn.	5 52
6	Epiphany.	8 1	3 59	22 31	19 29	5A. 0	0 9	6 18
7	1 S. aft. Epiph.	8 0	4 0	22 24	18 1	5 59	0 57	6 44
8	Plow Monday.	Lucian.	4 1	22 16	15 46	6 59	1 44	7 10
9		7 58	4 2	22 8	12 52	8 2	2 28	7 35
10		7 57	4 3	21 59	9 29	9 5	3 12	8 0
11		7 56	4 4	21 50	5 43	10 8	3 55	8 25
12	O.N. Year's Day	7 55	4 5	21 40	1 42	11 11	4 36	8 49
13	Cam. Term beg.	Hilary.	4 6	21 30	2 S. 24	Morn.	5 18	9 12
14	2 S. aft. Epiph.	Oxf. Term beg.	4 7	21 20	6 30	0 17	6 1	9 35
15		7 51	4 9	21 9	10 27	1 25	6 46	9 57
16		7 50	4 10	20 58	14 0	2 34	7 35	10 17
17	O. Twelfth Day	7 49	4 11	20 46	16 58	3 43	8 26	10 37
18	Q. Char. B. D. k.	7 48	4 12	20 34	19 2	4 55	9 21	10 56
19		7 46	4 14	20 22	20 0	6 2	10 20	11 15
20	Fabian B. & M.	7 45	4 15	20 9	19 37	7 2	11 22	11 33
21	3 S. aft. Epiph.	Agnes.	4 16	19 56	17 52	☽ sets.	0A. 22	11 50
22		7 42	4 18	19 42	14 50	6A. 17	1 22	12 7
23	Term begins.	7 41	4 19	19 28	10 51	7 39	2 19	12 23
24		7 39	4 21	19 14	6 14	9 2	3 14	12 38
25	Conv. St. Paul.	7 38	4 22	18 59	1 22	10 20	4 6	12 52
26		7 36	4 24	18 44	3N 28	11 35	4 56	13 5
27	Pr. Aug. Fred. b.	7 35	4 26	18 29	7 59	Morn.	5 46	13 17
28	4 S. aft. Epiph.	7 33	4 27	18 13	11 59	0 49	6 36	13 29
29		7 31	4 29	17 57	15 16	1 59	7 25	13 40
30	K. Chail. I. Mart	7 30	4 30	17 41	17 46	3 7	8 15	13 50
31		7 28	4 32	17 24	19 22	4 11	9 5	13 59
Days	Day increaf.	Length of Day.	Helioc. Plac. ♀	Helioc. Plac. ☿	Helioc. Plac. ♂	Helioc. Plac. ☾	Helioc. Plac. ♀	Saturn rises.
1	0 8	7 52	14 50	18 11 39	16 24	10 54 6	22 18	3 20 0M 58
7	0 16	8 0	15 2	19 10	20 11	16 53	21 3	19 49 0 33
13	0 28	8 12	15 14	19 41	23 59	23 0	11 48	7 38 0 8
19	0 44	8 28	15 26	20 12	27 47	29 6	21 32	24 31 11A. 40
25	1 c	8 44	15 36	20 44	1 36	5 12	1 16	14 33 11 16

January, 1776.

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

February hath **XXIX** Days. White.

The LUNATIONS.

Full Moon the 4th Day, 10 Minutes past 2 in the Afternoon.
Last Quarter the 12th Day, 46 Minutes past 5 at Night.
New Moon the 19th Day, 20 Minutes past 1 in the Afternoon.
First Quarter the 26th Day, 53 Minutes after 6 in the Morning.

M D.	Sundays & other remark. Days.	Sun rises.	Sun sets.	Dec. ☉ South.	Dec. ☽ North.	Moon sets.	Moon South.	Clock bef. Sun
1		7 26	4 34	17 8	20 0	5M 9	9A.55	14 8
2	Purif. B.V. Mar.	7 24	4 36	16 50	19 41	5 56	10 43	14 16
3	Blafe.	7 23	4 37	16 33	18 28	6 39	11 33	14 23
4	G Septuages. Sund.	7 21	4 39	16 15	16 27	☽ rises.	Morn.	14 29
5	Agatha V. & M.	7 19	4 41	15 57	13 44	5A.45	0 19	14 34
6		7 18	4 43	15 39	10 28	6 48	1 3	14 38
7		7 16	4 45	15 20	6 49	7 51	1 45	14 41
8		7 14	4 46	15 1	2 52	8 56	2 28	14 43
9		7 13	4 48	14 42	1 S.13	10 0	3 10	14 45
10		7 11	4 50	14 23	5 18	11 5	3 52	14 46
11	G Sexages. Sunday.	7 9	4 52	14 3	9 12	Morn.	4 36	14 46
12	Term ends.	7 8	4 53	13 43	12 45	0 13	5 22	14 46
13	Old Candle. D.	7 6	4 55	13 23	15 57	1 21	6 11	14 45
14	Valentine B. M.	7 4	4 57	13 3	18. 19	2 30	7 3	14 43
15		7 2	4 59	12 42	19 44	3 37	7 58	14 41
16		7 0	5 1	12 22	19 57	4 39	8 57	14 38
17		6 58	5 3	12 1	18 51	5 35	9 57	14 34
18	G Quinquages. Sun.	6 56	5 5	11 40	16 25	6 22	10 58	14 29
19		6 54	5 7	11 18	12 48	☽ sets.	11 58	14 23
20	Shrove Tuesday	6 52	5 9	10 57	8 21	6A.30	0A.56	14 16
21	Ash Wednesday.	6 50	5 11	10 35	3 22	7 52	1 53	14 9
22		6 49	5 12	10 14	1N.41	9 12	2 46	14 1
23		6 47	5 14	9 52	6 32	10 32	3 37	13 53
24	St. Matthias.	Pr. Adol. Fred. b.	9 30	10 51	11 48	4 29	13 44	
25	G 1 Sund. in Lent.	6 43	5 18	9 7	14 28	Morn.	5 21	13 35
26		6 41	5 20	8 45	17 16	0 59	6 12	13 25
27		6 39	5 22	8 23	19 6	2 5	7 2	13 15
28	Ember Week.	6 37	5 24	8 0	19 58	3 4	7 53	13 4
29		6 35	5 26	7 37	19 53	3 57	8 43	12 53

Days	Day increas.	Length of Day.	Helioc. Plac. ♀	Helioc. Plac. ♃	Helioc. Plac. ♂	Helioc. Plac. ☾	Helioc. Plac. ♀	Helioc. Plac. ♂	Saturn rises.
1	1 24	9 8	15 51	21 120	6X 2	12 19	12 34	11X 57	10A.49
7	1 45	9 20	16 3	21 51	9 51	18 23	22 14	10Y 25	10 24
13	2 7	9 49	16 15	22 22	13 38	24 27	1M 53	14 8 11	9 59
19	2 29	10 13	16 27	22 53	17 26	0m 30	11 30	21 11 37	9 34
25	2 51	10 35	16 38	23 24	21 12	6 32	21 5	28 15	9 9

February, 1776.

Days	Day lig.		Durat. Twilig.	Node D in Ω	Lat. ♀		Lat. ♀		Lat. ♂		Lat. ♀		Lat. ♂						
	begins.	ends.			North	South	South	North	North	South	North	South	North	South					
1	5	30	6	30	2	0	15	40	2	36	0	26	1	3	2	26	1	46	
7	5	21	6	30	1	59	15	20	2	37	0	25	1	1	2	5	1	8	
13	5	12	6	48	1	57	15	0	2	39	0	24	0	59	1	43	0	4	
19	5	0	7	0	1	57	14	40	2	40	0	23	0	57	1	19	1	N.22	
25	4	50	7	10	1	56	14	20	2	42	0	22	0	55	0	56	2	48	
Days	☉			D	♁	Lat. D	h _R		l _R		♂	♀	♁	♂					
	d	m.	s.				h	h	l	l					♂	♀			
1	12	18	31	8	16	3 S.13	21	20	11	38	26	11	27	28	20	18			
2	13	19	21	20	26	2	16	21	19	11	38	26	59	28	36	22	5		
3	14	20	9	2	Ω27	1	12	21	10	11	38	27	46	29	45	23	52		
5	15	20	56	14	23	0	7	21	18	11	38	28	34	0	54	25	39		
6	16	21	42	26	12	0	N.59	21	18	11	D.38	29	21	2	3	27	26		
7	17	22	27	8	Ω	0	2	1	21	17	11	38	0	♂	9	3	12	29	12
8	18	23	10	19	49	2	59	21	16	11	38	0	56	4	31	0	♂	58	
9	19	23	53	1	♁	39	3	49	21	15	11	39	1	43	5	30	2	42	
10	20	24	33	13	36	4	30	21	14	11	39	2	30	6	39	4	25		
10	21	25	12	25	41	4	59	21	13	11	40	3	18	7	49	6	7		
12	22	25	50	7	♁	59	5	15	21	11	41	4	5	8	58	7	47		
13	23	26	26	20	35	5	16	21	10	11	43	4	52	10	7	9	24		
14	24	27	1	3	♁	32	5	2	21	9	11	44	5	40	11	17	10	57	
15	25	27	35	16	54	4	32	21	7	11	46	6	27	12	27	12	26		
15	26	28	6	3	♁	30	3	45	21	6	11	48	7	14	13	37	13	51	
16	27	28	36	14	53	2	42	21	4	11	50	8	1	14	47	15	11		
17	28	29	5	29	32	1	28	21	3	11	53	8	49	15	57	16	26		
19	29	29	32	14	♁	31	0	6	21	1	11	55	9	36	17	7	17	34	
19	♂	29	57	29	42	1	S.17	20	59	11	57	10	23	18	17	18	35		
20	1	30	21	14	♂	56	2	36	20	56	12	0	11	10	19	27	19	29	
21	2	30	43	0	♁	4	3	42	20	54	12	3	11	57	20	38	20	14	
22	3	31	3	14	56	4	32	20	51	12	6	12	45	21	49	20	49		
23	4	31	22	29	24	5	4	20	49	12	10	13	32	23	0	21	14		
24	5	31	39	13	♂	26	5	16	20	46	12	13	14	19	24	10	21	30	
24	6	31	54	27	1	5	9	20	44	12	17	15	6	25	21	21	37		
26	7	32	8	10	11	9	4	47	20	41	12	21	15	53	26	32	21	Rx 35	
27	8	32	19	12	54	4	11	20	39	12	26	16	40	27	43	21	24		
28	9	32	29	5	♁	19	3	24	20	36	12	30	17	27	28	54	21	3	
29	10	32	36	17	30	2	28	20	33	12	34	18	14	0	♁	5	20	33	
Days	Jupiter fets.		Mars fets.		Venus rife.	Mercu. fets.	Dec. ♀ South.	Dec. ♀ North.	Dec. ♂ South.	Dec. ♀ South.	Dec. ♂ South.								
1	3	M50	5	A.50	4	M30	5	A.13	5	55	21	47	13	47	21	1	16	24	
7	3	26	5	54	4	4	5	56	5	53	21	48	12	7	21	19	12	10	
13	3	41	5	58	4	5	6	32	5	48	21	50	10	20	21	17	7	29	
19	2	43	6	1	4	5	6	57	5	44	21	52	8	34	20	55	3	17	
25	2	21	6	4	5	2	6	54	5	36	21	56	6	43	20	11	0	46	

March hath XXXI Days. White.

The LUNATIONS.

Full Moon the 5th Day, 21 Minutes past 9 in the Morning.
Last Quarter the 13th Day, 3 Minutes past 7 in the Morning.
New Moon the 19th Day, 8 Minutes after 11 at Night.
First Quarter the 26th Day, 59 Minutes past 9 at Night.

M D.	Sundays & other remark. Days.	Sun rises.	Sun sets.	Dec. ☉ South.	Dec. ☽ North.	Moon sets.	Moon South.	Clock bef. Sun
1	David.	6 33	5 28	7 14	18 53	4M42	9A.31	12 41
2	Chad. B. Litchf.	6 31	5 30	6 51	17 3	5 18	10 18	12 28
3	Sund. in Lent.	6 29	5 32	6 28	14 30	5 50	11 3	12 14
4		6 27	5 34	6 5	11 20	6 16	11 47	12 1
5		6 25	5 36	5 42	7 45) rises. Morn.		11 47
6		6 23	5 38	5 19	3 50	6A.51	0 31	11 32
7	Perpetua.	6 21	5 40	4 56	0 S.14	7 56	1 14	11 17
8		6 19	5 42	4 32	4 21	9 1	1 56	11 1
9		6 17	5 44	4 9	8 20	10 8	2 39	10 45
10	Sund. in Lent.	6 15	5 46	3 45	12 2	11 15	3 23	10 29
11		6 13	5 48	3 22	15 15	Morn.		4 10
12	Gregory.	6 11	5 50	2 58	17 48	0 22	4 59	9 55
13		6 9	5 52	2 34	19 30	1 28	5 52	9 38
14		6 7	5 54	2 11	20 8	2 31	6 48	9 21
15		6 5	5 56	1 47	19 33	3 30	7 46	9 4
16	Midlent Sund.	6 3	5 58	1 23	17 41	4 17	8 46	8 46
17	Patrick.	6 0	6 0	1 0	14 37	4 59	9 45	8 29
18	Edw. K. W. Sax.	5 59	6 2	0 36	10 32	5 35	10 43	8 10
19		5 57	6 4	0 12	5 45) sets.		11 40
20		5 55	6 6	0 N.11	0 36	6A.51	0 A.35	7 33
21	Benedict.	5 53	6 8	0 35	4 N.31	8 11	1 29	7 15
22		5 51	6 10	0 59	9 14	9 31	2 24	6 56
23		5 49	6 12	1 22	13 20	10 48	3 18	6 37
24	Sund. in Lent.	5 47	6 14	1 46	16 33	Morn.		4 11
25	Lady Day.	5 45	6 16	2 9	18 46	0 1	5 4	5 59
26		5 43	6 18	2 33	19 59	1 5	5 56	5 40
27		5 41	6 20	2 56	20 9	2 0	6 47	5 21
28		5 39	6 22	3 20	19 22	2 48	7 36	5 3
29	Camb. T. ends.	5 37	6 24	3 43	17 44	3 27	8 23	4 44
30	Oxf. Term ends.	5 35	6 26	4 6	15 20	4 0	9 9	4 26
31	Palm Sunday.	5 33	6 28	4 30	12 20	4 30	9 53	4 7
Days	Day increaf.	Length of Day.	Helioc. Plac. ♃	Helioc. Plac. ♄	Helioc. Plac. ♀	Helioc. Plac. ☾	Helioc. Plac. ☽	Saturn rises.
1	3 11	10 55	16 48	23 149	24 21	11 33	29 3	8 A.50
7	3 35	11 19	17 0	24 20	28 5	17 33	8 34	8 27
13	3 59	11 43	17 12	24 51	1 49	23 31	18 6	8 3
19	4 23	12 7	17 23	25 22	5 32	29 29	27 36	7 39
25	4 47	12 31	17 35	25 53	9 13	5 25	7 5	7 16

March, 1776.

Days	Day lig.		Durat.	Node	Lat. h	Lat. ♃	Lat. ♂	Lat. ♀	Lat. ♄
	begins.	ends.	Twilig.	in Ω	North.	South.	South.	North.	North.
1	4 43	7 17	1 55	14 4	2 43	0 21	0 52	0 36	3 35
7	4 30	7 30	1 56	13 44	2 44	0 20	0 50	0 14	3 29
13	4 17	7 43	1 57	13 25	2 45	0 19	0 47	0S. 8	2 22
19	4 4	7 56	1 58	13 5	2 46	0 18	0 44	0 27	0 53
25	3 50	8 10	2 0	12 46	2 46	0 17	0 41	0 45	0S. 28
Days	☉	☿	☽	♁	♂	♆	♁	♁	♁
	d.	m.	s.	Lat.	h	♁	♁	♁	♁
1	11	32	43	29 27	1 S.27	20 30	12 39	19 1	1 16
2	12	32	48	11Ω20	0 23	20 27	12 44	19 48	2 27
F	13	32	50	23 9	0N.42	20 24	12 49	20 35	3 38
4	14	32	51	4 ^m 256	1 45	20 21	12 55	21 21	4 49
5	15	32	49	16 45	2 43	20 17	13 0	22 8	6 0
6	16	32	45	28 37	3 34	20 14	13 5	22 55	7 12
7	17	32	40	10 ^m 35	4 17	20 11	13 11	23 42	8 23
8	18	32	32	22 40	4 48	20 8	13 16	24 25	9 34
9	19	32	22	4M52	5 7	20 4	13 22	25 15	10 46
F	20	32	12	17 17	5 11	20 0	13 28	26 2	11 57
11	21	32	0	29 55	5 1	19 56	13 34	26 45	13 9
12	22	31	44	12 48	4 36	19 52	13 41	27 36	14 21
13	23	31	27	26 3	3 55	19 48	13 48	28 22	15 33
14	24	31	8	9 ^m 39	3 0	19 44	13 55	29 9	16 45
15	25	30	46	23 38	1 53	19 40	14 2	20 55	17 57
16	26	30	23	8 ^m 0	0 38	19 36	14 10	0V.42	19 8
F	27	29	57	22 44	0S.42	19 32	14 17	1 28	20 20
18	28	29	30	7X44	2 1	19 28	14 24	2 15	21 32
19	29	29	1	22 54	3 11	19 24	14 32	3 12	22 44
20	V	28	30	8V3	4 8	19 19	14 39	3 47	23 56
21	1	27	56	23 2	4 47	19 15	14 47	4 33	25 8
22	2	27	21	7 41	5 6	19 11	14 55	5 20	26 20
23	3	26	45	21 53	5 5	19 7	15 3	6 6	27 32
F	4	26	5	5H36	4 47	19 2	15 12	6 52	28 44
25	5	25	24	18 51	4 13	18 58	15 20	7 38	29 56
26	6	24	40	10 ^m 39	3 28	18 54	15 29	8 24	1X8
27	7	23	53	14 5	2 34	18 49	15 37	9 10	2 20
28	8	23	6	26 14	1 35	18 45	15 46	9 56	3 33
29	9	22	16	8Ω9	0 32	18 40	15 55	10 42	4 45
30	10	21	25	19 58	0N.32	18 36	16 4	11 28	5 57
F	11	20	32	1M44	1 33	18 31	16 13	12 14	7 9
Days	Jupiter	Mars	Venus	Mercu.	Dec. ♃	Dec. ♃	Dec. ♂	Dec. ♀	Dec. ♄
	fets.	fets.	rises.	fets.	South.	North.	South.	South.	South.
1	2M 1	6A. 7	5M 2	6A 23	5 30	22 0	5 0	19 18	0 43
7	1 43	6 11	5 0	rises.	5 22	22 5	3 16	17 58	2 54
13	1 24	6 16	4 54	5M33	5 12	22 11	1 22	16 10	5 49
19	1 5	6 20	4 53	5 14	5 2	22 17	0N.33	14 22	7 52
25	0 47	6 25	4 48	5 5	4 53	22 23	2 2	12 13	8 28

April hath XXX Days.

White.

The LUNATIONS.

Full Moon the 4th Day, 50 Minutes past 2 in the Morning.
Last Quarter the 11th Day, 47 Minutes past 4 in the Afternoon.
New Moon the 18th Day, 15 Minutes after 8 in the Morning.
First Quarter the 25th Day, 55 Minutes past 2 in the Afternoon.

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

April, 1776.

Days	Day lig. begins.	Day lig. ends.	Durat. Twilig.	Node Δ in Ω	Lat. \uparrow North	Lat. \downarrow South.	Lat. \uparrow South.	Lat. \downarrow South.	Lat. \downarrow South.
1	3 33	8 27	2 3	12 24	2 47	0 15	0 3	1 3	1 39
7	3 17	8 43	2 8	12 5	2 46	0 14	0 34	1 16	2 16
13	3 2	8 58	2 11	11 46	2 46	0 14	0 30	1 26	2 37
19	2 47	9 13	2 15	11 27	2 46	0 13	0 27	1 33	2 36
25	2 26	9 34	2 25	11 9	2 46	0 12	0 25	1 38	2 16

Days	\odot			\uparrow	Lat. \downarrow	\uparrow		\downarrow	\uparrow	\downarrow	\uparrow	\downarrow	\uparrow	\downarrow	
	d.	m.	s.			Δ	Δ								Δ
1	12	19	36	13 32	2N.31	18	27	16	22	13	0	8	21	14	37
2	13	18	38	25 25	3 23	18	22	16	32	13	45	9	33	15	34
3	14	17	38	7 Δ 25	4 5	18	17	16	41	14	31	10	46	16	34
4	15	16	36	19 32	4 38	18	12	16	51	15	17	11	58	17	37
5	16	15	31	1M49	4 57	18	8	17	0	16	3	13	10	18	43
6	17	14	25	14 16	5 3	18	3	17	10	16	48	14	22	19	52
F	18	13	17	26 54	4 55	17	59	17	20	17	34	15	35	21	3
8	19	12	6	9 Δ 44	4 31	17	54	17	30	18	20	16	47	22	16
9	20	10	55	22 46	3 53	17	49	17	40	19	5	17	59	23	31
10	21	9	41	6 Δ 3	3 2	17	45	17	51	19	51	19	12	24	48
11	22	8	25	19 35	2 0	17	40	18	12	20	36	20	24	26	7
12	23	7	7	3 Δ 25	0 50	17	35	18	11	21	22	21	37	27	28
13	24	5	46	17 33	0 S.25	17	31	18	22	22	7	22	50	28	51
F	25	4	23	1 Δ 58	1 40	17	26	18	32	22	52	24	2	0 Δ 16	
15	26	2	59	16 38	2 49	17	22	18	43	23	37	25	15	1	43
16	27	1	33	1 Δ 28	3 48	17	17	18	54	24	22	26	28	3	12
17	28	0	5	16 21	4 31	17	13	19	5	25	8	27	40	4	43
18	28	58	37	1 8 9	4 56	17	9	19	16	25	53	28	53	6	15
19	29	57	5	15 42	5 0	17	4	19	27	26	38	0 Δ 6	7	7	49
20	8	55	32	29 52	4 47	17	0	19	38	27	23	1	19	9	25
F	1	53	57	13 Δ 38	4 16	16	55	19	49	28	8	2	32	11	3
22	2	52	20	26 56	3 32	16	51	20	1	28	52	3	44	12	42
23	3	50	41	9 Δ 48	2 39	16	47	20	12	29	37	4	57	14	23
24	4	49	0	22 16	1 39	16	42	20	23	0 Δ 22	6	10	16	6	6
25	5	47	17	4 Δ 27	0 37	16	38	20	35	1	7	7	22	17	51
26	6	45	32	16 24	0N.27	16	34	20	46	1	51	8	35	19	38
27	7	43	46	28 14	1 28	16	30	20	58	2	36	9	47	21	26
F	8	41	58	10 Δ 2	2 25	16	26	21	10	3	20	11	0	23	16
29	9	40	9	21 52	3 17	16	22	21	22	4	5	12	13	25	8
30	10	38	18	3 Δ 48	4 0	16	18	21	34	4	49	13	26	27	1

Days	Jupiter		Mars		Venus		Mercu.		Dec. \uparrow		Dec. \downarrow		Dec. \uparrow		Dec. \downarrow	
	fets.	rises.	fets.	rises.	rises.	rises.	rises.	rises.	South.	North.	North.	South.	South.	South.	South.	
1	0M27		6A.30		4M40		4M50		4 40	22 31	4 33	9 26	7 36			
7	0 10		rises.		4 32		4 50		4 30	22 37	6 23	9 52	5 40			
13	11A.49		5M 9		4 23		4 42		4 19	22 43	8 9	4 10	2 50			
19	11 33		4 55		4 15		4 35		4 9	22 50	9 52	1 23	0N.43			
25	11 16		4 41		4 5		4 27		3 59	22 56	11 31	1N.26	4 55			

May hath XXXI Days. White.

The LUNATIONS.

Full Moon the 3d Day, 37 Minutes past 5 in the Afternoon.
 Last Quarter the 10th Day, 31 Minutes after 11 at Night.
 New Moon the 17th Day, 22 Minutes past 5 in the Afternoon.
 First Quarter the 25th Day, 43 Minutes past 8 in the Morning.

M D.	Sundays & other remark. Days.	Sun rises.	Sun sets.	Dec. ☉ North.	Dec. ☽ South.	Moon sets.	Moon South.	Clock aft. Sun.	
1	St. Phil. & James	4 35	7 26	15 20	2 6	4M 9	10A.49	3 12	
2		4 34	7 27	15 38	6 18	4 29	11 33	3 20	
3	Inv. of the Crofs	4 32	7 29	15 55	10 18	☽ rises.	Morn.	3 27	
4		4 30	7 31	16 12	13 57	8A.21	0 10	3 33	
F 4	S. aft. Easter.	4 29	7 32	16 29	16 59	9 29	1 8	3 39	
6	St. John A.P.L.	4 27	7 34	16 46	19 12	10 35	1 59	3 44	
7		4 25	7 36	17 3	20 24	11 35	2 53	3 48	
8		4 24	7 37	17 19	20 28	Morn.	3 49	3 52	
9		4 22	7 39	17 35	19 18	0 28	4 45	3 55	
10		4 21	7 40	17 50	16 59	1 12	5 42	3 58	
11		4 19	7 42	18 6	13 40	1 48	6 37	4 0	
F 11	Rogat. Sunday.	Old May Day.		18 21	9 28	2 20	7 31	4 1	
13		4 16	7 45	18 35	4 43	2 48	8 23	4 1	
14		4 14	7 47	18 50	0N.18	3 14	9 15	4 2	
15		4 13	7 48	19 4	5 20	3 38	10 8	4 2	
16	Holy Thursday.	4 11	7 50	19 18	10 2	4 4	11 0	4 2	
17		4 10	7 51	19 31	14 7	☽ sets.	11 53	4 1	
18		4 8	7 53	19 44	17 19	8A.40	0A.47	3 59	
F 18	S. aft. Easter.	Q. Charlotte be.		19 57	19 30	9 46	1 42	3 57	
20	Term begins.	4 5	7 56	20 9	20 33	10 45	2 36	3 54	
21		4 4	7 57	20 21	20 29	11 34	3 29	3 50	
22	Pre. Eliz. born.	4 3	7 58	20 33	19 24	Morn.	4 19	3 46	
23	Oxf. T. ends.	4 2	7 59	20 45	17 26	0 11	5 6	3 41	
24		4 0	8 1	20 56	14 45	0 42	5 52	3 36	
25		3 59	8 2	21 6	11 27	1 11	6 36	3 30	
F 25	Whit-Sunday.	Augustin A. B.		21 17	7 42	1 33	7 19	3 24	
27	Whit-Monday.	Ven. Bede.		4 21	27 3	1 54	8 0	3 18	
28	Whit-Tuesday.	3 56	8 5	21 36	0S.32	2 13	8 43	3 11	
29	Ember Week.	M. Ch. II. Ref.		21 45	4 48	2 34	9 26	3 4	
30		3 54	8 7	21 54	8 57	2 55	10 11	2 56	
31		3 53	8 8	22 2	12 46	3 19	10 59	2 48	
Days	Day increaf.	Length of Day.	Helioc. Plac. ♀	Helioc. Plac. ♀	Helioc. Plac. ♂	Helioc. Plac. ☉	Helioc. Plac. ♀	Helioc. Plac. ♂	Saturn sets.
1	7 7	14 15	18 47	29 11	2 18	36	5X36	21X 0	4M 13
7	7 27	15 11	18 59	29 33	4 45	17 25	15 7	21V 16	3 50
13	7 45	15 29	19 11	0 3	8 16	23 12	24 39	26 8 38	3 25
19	8 4	15 47	19 22	0 34	11 40	28 58	4V 11	4 21	3 1
25	8 19	16 3	19 34	1 4	15 3	4 45	13 45	9 41	2 36

May, 1776.

Days	Day lig.		Durat.	Node	Lat. ♀		Lat. ♀		Lat. ♂	Lat. ♀	Lat. ♀
	begins.	ends.			Twilig.	♂ in ♀	North.	South.			
1	2 6	9 57	2 37	10 50	2 46	0 12	0 19	1 40	1 38		
7	1 44	10 19	2 48	10 32	2 45	0 11	0 15	1 39	0 44		
13	1 19	10 45	3 5	10 14	2 44	0 10	0 11	1 30	0 N.18		
19	0 48	11 20	3 32	9 55	2 43	0 9	0 8	1 30	1 16		
25	NoNig.	NoNig.	NoNig.	9 37	2 41	0 9	0 4	1 22	1 56		
Days	☉			♂	♂	♂	♂	♂	♂	♂	♂
	d.	m.	s.								
1	11	36	24	15 56	4N.35	16 14	21 46	5 34	14 38	28 56	
2	12	34	29	28 15	4 53	16 10	21 57	6 18	15 51	08 53	
3	13	32	33	10M47	5 0	16 6	22 9	7 2	17 4	2 52	
4	14	30	34	23 32	4 52	16 2	22 22	7 47	18 17	4 53	
F	15	28	34	6 25	4 30	15 55	22 34	8 31	19 30	6 55	
6	16	26	33	19 38	3 52	15 55	22 47	9 15	20 42	8 59	
7	17	24	30	27 58	3 2	15 51	22 59	9 59	21 55	11 4	
8	18	22	25	16 20	2 0	15 47	23 12	10 43	23 8	13 10	
9	19	20	20	0 10	0 51	15 44	23 24	11 27	24 21	15 18	
10	20	18	12	14 2	0 S.22	15 40	23 37	12 11	25 33	17 27	
11	21	16	2	28 4	1 35	15 37	23 49	12 54	26 46	19 38	
F	22	13	52	12 17	2 43	15 33	24 2	13 38	27 59	21 50	
13	23	11	41	26 38	3 41	15 30	24 14	14 22	29 11	24 0	
14	24	9	27	11 5	4 25	15 27	24 27	15 6	08 24	26 11	
15	25	7	13	25 33	4 53	15 24	24 39	15 49	1 37	28 22	
16	26	4	57	9 56	5 2	15 21	24 52	16 33	2 50	01133	
17	27	2	39	24 5	4 52	15 18	25 5	17 17	4 3	2 43	
18	28	0	21	8 5	4 24	15 15	25 18	18 1	5 16	4 53	
F	28	58	1	21 40	3 42	15 13	25 31	18 44	6 29	7 2	
20	29	55	39	4 53	2 49	15 10	25 44	19 27	7 42	9 10	
21	II	53	16	17 43	1 48	15 8	25 57	20 10	8 55	11 15	
22	1	50	52	0 11	0 44	15 6	26 10	20 53	10 8	13 19	
23	2	48	26	12 22	0 N.21	15 4	26 23	21 37	11 20	15 21	
24	3	46	0	24 22	1 24	15 2	26 36	22 20	12 33	17 20	
25	4	43	32	6 13	2 22	15 0	26 49	23 4	13 46	19 16	
F	5	41	3	18 4	3 15	14 58	27 2	23 47	14 59	21 8	
27	6	38	34	29 56	3 59	14 56	27 15	24 30	16 12	22 59	
28	7	36	3	11 57	4 33	14 54	27 20	25 13	17 25	24 48	
29	8	33	31	24 9	4 56	14 52	27 42	25 5	18 38	26 35	
30	9	31	0	6 37	5 5	14 50	27 55	26 38	19 51	28 20	
31	10	28	27	19 21	4 55	14 48	28 9	27 21	21 4	0 2	
Days	Jupiter	Mars	Venus	Mercu.	Dec. ♀	Dec. ♀	Dec. ♂	Dec. ♀	Dec. ♀		
	rises.	rises.	rises.	rises.	South.	North.	North.	North.	North.		
1	10 A 59	4 M 26	3 M 55	4 M 21	3 50	23 1	13 6	4 14	9 34		
7	10 42	4 11	3 45	4 18	3 42	23 0	14 36	7 0	14 28		
13	10 24	3 57	3 35	fets.	3 35	23 10	16 0	9 43	19 7		
19	10 7	3 43	3 24	8 A 48	3 30	23 14	17 18	12 17	22 46		
25	9 49	3 20	3 14	9 32	3 26	23 17	18 30	14 41	24 57		

June hath XXX Days.

White.

The LUNATIONS.

Full Moon the 2d Day, 37 Minutes past 5 in the Morning.
 Last Quarter the 9th Day, 26 Minutes after 4 in the Morning.
 New Moon the 16th Day, 27 Minutes past 3 in the Morning.
 First Quarter the 24th Day, 6 Minutes past 2 in the Morning.

M D.	Sundays & other remark. Days.	Sun rises.	Sun sets.	Dec. ☉ North.	Dec. ☽ South.	Moon sets.	Moon South.	Clock aft. Sun	
1	Nicomede.	3 51	8 9	22 11	16 6	3M46	IIA.49	2 39	
F	Trinity Sunday.	3 51	8 9	22 18	18 41	risef.	Morn.	2 30	
3		3 50	8 10	22 26	20 17	9A.24	0 43	2 21	
4	K. Geo. III. born	3 49	8 11	22 32	20 42	10 28	1 39	2 11	
5	Pr. Ern. Aug. bor.	Oxf. Term beg.	22 39	19 52	11 11	2 37	2 1		
6	Corpus Christi.	3 47	8 13	22 45	17 49	II 51	3 35	1 50	
7	Term begins.	3 47	8 13	22 51	14 42	Morn.	4 31	1 39	
8		3 46	8 14	22 56	10 40	0 23	5 24	1 28	
F	1 Sun. aft. Trin.	3 46	8 14	23 1	6 4	0 51	6 17	1 16	
10	Prs. Amelia bor.	3 46	8 14	23 6	1 8	1 17	7 7	1 4	
11	St. Barnabas.	3 45	8 15	23 10	3N.50	1 39	7 58	0 52	
12		3 45	8 15	23 13	8 34	2 3	8 48	0 40	
13		3 45	8 15	23 17	12 47	2 34	9 40	0 27	
14		3 44	8 16	23 19	16 19	3 1	10 33	0 15	
15		3 44	8 16	23 22	18 51	3 34	II 26	0 2	
F	2 Sun. aft. Trin.	3 44	8 16	23 24	20 22	risef.	0A.19	0S. 10	
17	St. Alban.	3 44	8 16	23 26	20 45	9A.15	1 13	0 23	
18		3 43	8 17	23 27	20 1	10 4	2 4	0 36	
19		3 43	8 17	23 28	18 21	10 40	2 54	0 49	
20	Tr. Edw. K. WS.	3 43	8 17	23 28	15 53	II 8	3 41	1 1	
21	Longest Day.	3 43	8 17	23 28	12 46	II 32	4 26	1 14	
22		3 43	8 17	23 27	9 10	II 54	5 10	1 27	
F	3 Sun. aft. Trin.	3 43	8 17	23 27	5 12	Morn.	5 52	1 40	
24	St. John Bapt.	3 43	8 17	23 25	1 3	0 14	6 33	1 52	
25		3 44	8 16	23 24	3S.11	0 33	7 14	2 5	
26	Term ends.	3 44	8 16	23 22	7 21	0 54	7 58	2 17	
27		3 44	8 16	23 19	11 20	1 16	8 44	2 30	
28		3 44	8 16	23 16	14 53	1 40	9 33	2 42	
29	St. Peter.	3 45	8 16	23 13	17 47	2 11	10 26	2 54	
F	4 Sun. aft. Trin.	3 45	8 16	23 9	19 48	2 48	II 22	3 6	
Days	Day increaf.	Length of Day.	Helioc. Plac. ♀	Helioc. Plac. ♀	Helioc. Plac. ♂	Helioc. Plac. ☉	Helioc. Plac. ♀	Helioc. Plac. ♂	Saturn sets.
1	8 33	16 17	19 48	10 40	18 57	11 26	24 55	14 12	6 2M 7
7	8 42	16 26	19 50	2 10	22 15	17 10	4 31	8 6	1 43
13	8 46	16 30	20 11	2 41	25 31	22 54	14 8	28 30	1 18
19	8 50	16 34	20 23	3 11	28 45	28 37	23 46	16m38	0 52
25	8dec.2	16 32	20 34	3 41	11 57	4 21	3 11	25 31	0 27

June, 1776.

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

July hath XXXI Days.

White.

The LUNATIONS.

Full Moon the 1st Day, 26 Minutes past 3 in the Afternoon.
Last Quarter the 8th Day, 54 Minutes past 8 in the Morning.
New Moon the 15th Day, 20 Minutes past 3 in the Afternoon.
First Quarter the 23d Day, 26 Minutes past 6 in the Afternoon.
Full Moon the 30th Day, 56 Minutes past 11 at Night.

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

July 1776.

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

August hath XXXI Days,

White.

The LUNATIONS.

Last Quarter the 6th Day, 33 Minutes past 2 in the Afternoon.
 New Moon the 14th Day, 38 Minutes past 5 in the Morning.
 First Quarter the 22d Day, 26 Minutes after 9 in the Morning.
 Full Moon the 29th Day, 57 Minutes past 7 in the Morning.

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

August, 1776.

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

September hath XXX Days. White.

The LUNATIONS.

Last Quarter the 4th Day, 2 Minutes after 11 at Night.

New Moon the 12th Day, 51 Minutes past 9 at Night.

First Quarter the 20th Day, 43 Minutes past 10 at Night.

Full Moon the 27th Day, 16 Minutes past 4 in the Afternoon.

M D.	Sundays & other remark. Days.	Sun rises.	Sun sets.	Dec. ☉ North.	Dec. ☽ North.	Moon rises.	Moon South.	Clock aft. Sun.	
F 1	13 S. aft. Trin.	S. Giles.	6 46	8 1	4 41	8A.41	2M33	0 29	
2	London burnt 1666, O.S.	5 15	6 44	7 39	9 33	9 8	3 26	0 48	
3		5 17	6 42	7 17	13 44	9 38	4 19	1 7	
4		5 19	6 40	6 54	17 4	10 14	5 12	1 26	
5		5 21	6 38	6 32	19 22	10 55	6 5	1 45	
6		5 23	6 36	6 10	20 36	11 43	6 59	2 5	
7	Dog Days end.	5 25	6 34	5 47	20 46	Morn.	7 52	2 25	
F 8	14 Sun. aft. Trin.	Nativ. B. V. Ma.	5 29	5 24	19 54	0 38	8 42	2 46	
9		5 31	6 30	5 2	18 6	1 36	9 32	3 6	
10		5 31	6 28	4 39	15 33	2 39	10 19	3 27	
11		5 33	6 26	4 16	12 21	3 43	11 4	3 47	
12		5 35	6 24	3 53	8 41	☽ sets.	11 48	4 8	
13		5 37	6 22	3 30	4 39	6A.57	0A.31	4 29	
14	Holy Cross Day.	5 39	6 20	3 7	0 30	7 16	1 12	4 50	
F 15	15 Sun. aft. Trin.	5 41	6 18	2 43	3 S.44	7 35	1 55	5 11	
16		5 43	6 16	2 20	7 50	7 56	2 38	5 32	
17	Lambert B. & M	5 45	6 14	1 57	11 37	8 20	3 22	5 53	
18	Ember Week.	5 47	6 12	1 34	15 1	8 48	4 7	6 14	
19		5 48	6 11	1 10	17 49	9 21	4 56	6 35	
20		5 50	6 9	0 47	19 50	10 2	5 48	6 56	
21	St. Matthew.	5 52	6 7	0 24	20 51	10 55	6 44	7 16	
F 22	16 S. aft. Trin.	K. Geo. III. cro.	0 0	0 20	20 44	11 56	7 40	7 37	
23		5 56	6 3	0 S.23	19 21	Morn.	8 38	7 57	
24		5 58	6 1	0 47	16 44	1 6	9 35	8 17	
25		6 0	5 59	1 10	12 57	2 27	10 33	8 37	
26	St. Cyprian M.	6 2	5 57	1 34	8 16	3 53	11 30	8 57	
27		6 4	5 55	1 57	3 0	☽ rises.	Morn.	9 17	
28		6 6	5 53	2 20	2N.27	6A.49	0 26	9 36	
F 29	17 S. aft. Trin.	S. Michael. Prs. Cha. Aug. Mat. b.	6 10	5 49	3 7	12 23	1 21	9 56	
30	St. Jerome.	6 10	5 49	3 7	12 23	7 45	2 16	10 15	
31		6 10	5 49	3 7	12 23	7 45	2 16	10 15	
Days	Day decreas.	Length of Day.	Helioc. Plac. ♄	Helioc. Plac. ♃	Helioc. Plac. ♀	Helioc. Plac. ☉	Helioc. Plac. ♀	Saturn sets.	
1	3 3	13 33	22 46	9 24	6 27	7 9	31 23	39 0 42	8A. 8
7	3 25	13 9	22 57	9 55	8 58	15 21	3 21	22 7	7 47
13	3 49	12 45	23 9	10 28	11 48	21 12	13 3	10M51	7 25
19	4 11	12 23	23 21	10 55	14 36	27 4	22 42	28 3	7 4
25	4 35	11 59	23 32	11 25	17 23	2V57	2M21	14 2 35	6 44

September, 1776.

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

October hath XXXI Days. White.

The LUNATIONS.

Last Quarter the 4th Day, 15 Minutes past 11 in the Morning.
 New Moon the 12th Day, 10 Minutes past 3 in the Afternoon.
 First Quarter the 20th Day, 22 Minutes after 10 in the Morning.
 Full Moon the 27th Day, 29 Minutes past 1 in the Morning.

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

October, 1776.

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

November hath XXX Days. White.

The LUNATIONS.

Last Quarter the 3d Day, 49 Minutes past 3 in the Morning.
 New Moon the 11th Day, 22 Minutes past 8 in the Morning.
 First Quarter the 18th Day, 5 Minutes past 8 at Night.
 Full Moon the 25th Day, 12 Minutes past Noon.

M D.	Sundays & other remark; Days;	Sun	Sun	Dec. ☉	Dec. ☽	Moon	Moon	Clock	
		rises.	sets.	South.	North.	rises.	South.	aft. Sun	
1	All Saints.	7 11	4 4	14 44	20 56	9A.30	4M.45	16	14
2	Pr. Edw. born.	AllSou.	4 4	15 2	19 40	10 33	5 37	16	14
3	22 S. aft. Trin	7 15	4 44	15 21	17 26	11 37	6 26	16	14
4		7 16	4 43	15 40	14 28	Morn.	7 13	16	13
5	Papists Conspir	7 18	4 41	15 58	10 57	0 41	7 58	16	10
6	Term begins.	7 20	4 39	16 10	7 3	1 48	8 40	16	6
7	Duk. Cum. born.	7 22	4 37	16 33	2 52	2 51	9 22	16	2
8	Prs. Sop. Aug. bo	7 24	4 35	16 51	1 S 27	3 55	10 3	15	57
9	Ld. Mayor's D. a	London	4 34	17 8	5 45	5 0	10 45	15	51
10	23 S. aft. Trin	7 27	4 32	17 25	9 50	6 7	11 28	15	45
11	S. Martin B. & C.	7 29	4 30	17 41	13 38	☽ sets.	0 13	15	38
12		7 31	4 28	17 57	16 51	5A.32	1 0	15	30
13	Britius B.	7 32	4 27	18 13	19 21	6 8	1 50	15	21
14		7 34	4 25	18 29	20 56	6 51	2 42	15	11
15	Machus.	7 36	4 24	18 44	21 25	7 43	3 35	15	0
16		7 38	4 22	18 59	20 45	8 47	4 29	14	48
17	24 S. aft. Trin	Hugh Bp. Linc.	19 13	18 54	18 54	9 55	5 24	14	36
18		7 41	4 19	19 28	15 57	11 11	6 18	14	23
19		7 42	4 18	19 42	12 3	Morn.	7 19	14	9
20	Edm. K. & Mart.	7 44	4 16	19 55	7 25	0 30	8 2	13	54
21		7 45	4 15	20 8	2 16	1 49	8 54	13	38
22	Old Mart. Day.	7 46	4 14	20 21	3N. 4	3 11	9 47	13	21
23	St. Clemeat.	7 48	4 12	20 33	8 15	4 33	10 40	13	4
24	25 S. aft. Trin	7 49	4 11	20 45	12 57	5 54	11 36	12	46
25	D. Glouc. born	7 50	4 10	20 57	16 50	☽ rises.	Morn.	12	27
26		7 51	4 9	21 8	19 37	5A.23	0 32	12	7
27		7 52	4 8	21 19	21 11	6 11	1 29	11	47
28	Term ends.	7 54	4 6	21 29	21 26	7 6	2 26	11	26
29		7 55	4 5	21 39	20 30	8 10	3 20	11	4
30	St. Andrew.	7 56	4 4	21 49	18 33	9 15	4 12	10	42
Days	Day decreaf.	Length of Day	Helioc. Plac. ♀	Helioc. Plac. ♀	Helioc. Plac. ♂	Helioc. Plac. ☉	Helioc. Plac. ♀	Helioc. Plac. ♂	Saturn rises.
1	6 57	9 3	44=44	14 ⁰ 529	43 13	9 8 41	10 13	2 8 51	5M47
7	7 10	9 1	24 55	14 59	6 53	15 43	10 42	9 11 29	5 27
13	7 39	8 55	25 7	15 29	9 33	21 45	20 11	16 50	5 7
19	7 58	8 30	25 18	15 59	12 13	27 49	29 40	20 5 35	4 46
25	8 14	8 20	25 30	16 29	14 52	3 11 53	9 ⁰⁰ 9	18 12 39	4 25

November, 1776.

Day.	Day lig. begins.			Day lig. ends.			Durat. Twilig.	Node in Ω	Lat. ζ North.	Lat. η North.	Lat. δ North.	Lat. ϕ South.	Lat. ψ South.			
	d.	m.	s.	D	∞	Lat. D	ζ	η	ζ	δ	η	ϕ	ψ			
1	5	17	6 43	1	59	1 25	2 16	0 9	1 36	1 27	0 45					
7	5	25	6 35	2	2	1 5	2 17	0 10	1 40	0 43	1N.12					
13	5	34	6 26	2	3	0 46	2 17	0 11	1 44	0 57	2 16					
19	5	41	6 19	2	5	0 26	2 18	0 11	1 48	1 11	2 22					
25	5	48	6 12	2	7	0 0	2 19	0 12	1 52	1 23	1 56					
Days	\odot			m			D	∞	Lat. D	ζ	η	ζ	δ	η	ϕ	ψ
1	9	41	8	20	38	0 S.53	26 6	25 7	6 41	1 12	12 55					
2	10	41	20	3 Ω 13	0 N.13	26 14	25 9	7 15	2 27	11 37						
F	11	41	34	15	30	1 18	26 21	25 11	7 49	3 42	10 20					
4	12	41	49	27	34	2 17	26 28	25 12	8 22	4 56	9 4					
5	13	42	6	9 m 28	3 8	26 35	25 1	8 56	6 11	7 52						
6	14	42	25	21	16	3 54	26 42	25 14	9 30	7 25	6 46					
7	15	42	45	3 ∞ 6	4 29	26 49	25 15	10 3	8 39	5 47						
8	16	43	8	15	0	4 51	26 56	25 15	10 36	9 54	5 2					
9	17	43	31	27	0	5 1	27 3	25 16	11 9	11 8	4 28					
F	18	43	56	9 m 8	4 58	27 10	25 16	11 42	12 23	4 6						
11	19	44	24	21	26	4 41	27 16	25 16	12 16	13 37	3 55					
12	20	44	52	3 f 53	4 11	27 23	25 16	12 49	14 52	3 54						
13	21	45	22	16	30	3 28	27 30	25 16	13 22	16 6	4D.53					
14	22	45	55	29	15	2 33	27 37	25 16	13 54	17 21	4 23					
15	23	46	28	12 b 13	1 29	27 44	25 15	14 2	18 35	4 53						
16	24	47	3	25	23	0 20	27 50	25 14	14 59	19 50	5 31					
F	25	47	40	8 m 48	0 S.51	27 57	25 13	15 32	21 4	6 16						
18	26	48	17	22	26	2 1	28 4	25 12	16 4	22 19	7 9					
19	27	48	57	6 \times 23	3 5	28 11	25 10	16 37	23 33	8 8						
20	28	49	38	20	35	3 59	28 17	25 9	17 9	24 48	9 11					
21	29	50	19	5 v 4	4 39	28 24	25 7	17 40	26 2	10 18						
22	7	51	2	19	44	5 1	28 31	25 4	18 1	27 17	11 29					
23	1	51	47	4 δ 29	5 4	28 37	25 2	18 44	28 31	12 43						
F	2	52	33	19	13	4 46	28 44	24 59	19 16	29 45	14 1					
25	3	53	20	3 II 47	4 10	28 50	24 56	19 47	1 b 0	15 21						
26	4	54	10	18	4	3 18	28 57	24 53	20 18	2 14	16 43					
27	5	54	59	1 ∞ 59	2 16	29 3	24 50	20 49	3 28	18 6						
28	6	55	49	15	29	1 8	29 9	24 47	21 20	4 43	19 31					
29	7	56	41	28	33	0 c	29 15	24 44	21 51	5 57	20 57					
30	8	57	35	11 Ω 14	1N.10	29 21	24 40	22 22	7 11	22 24						
Days	Jupiter rises.			Mars rises.			Venus sets.	Mercur. sets.	Dec. ζ South.	Dec. η North.	Dec. δ North.	Dec. ϕ South.	Dec. ψ South.			
1	9A.15	1M 9	5A.37	4A.47	7 58	21 17	0 34	20 52	16 28							
7	8 51	1 5	5 33	rises.	8 13	21 16	9 21	22 29	12 20							
13	8 27	0 59	5 32	5M43	8 28	21 17	8 9	23 42	10 45							
19	8 2	0 52	5 34	5 41	8 42	21 19	6 56	24 30	11 59							
25	7 35	0 44	5 40	5 56	8 55	21 22	5 46	24 5	14 37							

December hath XXXI Days. White.

The LUNATIONS.

Last Quarter the 2d Day, 37 Minutes past 11 at Night.
New Moon the 11th Day, 13 Minutes before 1 in the Morning.
First Quarter the 18th Day, 22 Minutes past 4 in the Morning.
Full Moon the 25th Day, 9 Minutes past 1 in the Morning.

M D.	Sundays & other remark. Days.	Sun rises.	Sun sets.	Dec. ☉ South.	Dec. ☽ North.	Moon rises.	Moon South.	Clock aft. Sun	
F	Advent Sunday.	7 57	4 3	21 58	15 46	10 A 21	5 M 0	10 19	
2		7 58	4 2	22 7	12 21	11 23	5 46	9 55	
3		7 59	4 1	22 15	8 31	Morn.	6 30	9 31	
4		8 0	4 0	22 23	4 21	0 31	7 12	9 6	
5		8 1	3 59	22 31	0 4	1 36	7 52	8 41	
6	Nicholas Bp.	8 2	3 58	22 38	4 S. 17	2 40	8 33	8 15	
7		8 3	3 57	22 44	8 30	3 45	9 15	7 49	
F	2 S. in Advent.	Concep. B.V.M.		22 50	12 26	4 52	9 59	7 21	
9		8 4	3 56	22 56	15 54	5 58	10 45	6 55	
10		8 5	3 55	23 1	18 44	7 4	11 34	6 26	
11		8 5	3 55	23 6	20 39	☽ sets.	0 A. 26	5 59	
12		8 6	3 54	23 10	21 30	5 A. 28	1 20	5 31	
13	Lucy V. & M.	8 6	3 54	23 14	21 9	6 26	2 16	5 3	
14		8 6	3 54	23 17	19 36	7 34	3 11	4 34	
F	3 S. in Advent.	8 7	3 53	23 20	16 51	8 48	4 4	4 4	
16	Camb. T. ends.	8 7	3 53	23 23	13 10	10 5	4 58	3 34	
17	Oxf. Term ends.	8 7	3 53	23 25	8 42	11 24	5 48	3 4	
18	Ember Week.	8 8	3 52	23 26	3 44	Morn.	6 38	2 34	
19		8 8	3 52	23 27	1 N. 27	0 43	7 29	2 4	
20		8 8	3 52	23 28	6 34	2 1	8 20	1 34	
21	St. Thomas.	Shortest Day.		23 28	11 20	3 20	9 12	1 4	
F	4 S. in Advent.	8 8	3 52	23 28	15 28	4 39	10 6	0 34	
23		8 8	3 52	23 27	18 40	5 56	11 1	0 4	
24		8 8	3 52	23 25	20 44	7 7	11 57	0 S. 26	
25	Christmas Day.	8 7	3 53	23 24	21 31	☽ rises.	Morn.	0 56	
26	St. Stephen.	8 7	3 53	23 21	21 5	5 A. 37	0 52	1 26	
27	St. John Evang.	8 7	3 53	23 19	19 31	6 43	1 46	1 55	
28	Holy Innocents.	8 6	3 54	23 15	17 1	7 49	2 36	2 24	
F	1 S. aft. Christ.	8 6	3 54	23 12	13 45	8 56	3 25	2 54	
30		8 5	3 54	23 8	10 1	10 1	4 10	3 23	
31	Silvester Bp.	8 5	3 55	23 3	5 55	11 6	4 52	3 53	
D ays	Day decreas.	Length of Day.	Helioc. Plac. ♀	Helioc. Plac. ♀	Helioc. Plac. ♂	Helioc. Plac. ☉	Helioc. Plac. ♀	Helioc. Plac. ♂	Saturn rises.
1	8 28	8 6	25 41	16 58	17 31	9 159	18 39	11 54	4 M 3
7	8 40	7 54	25 53	17 28	20 9	16 4	28 9	11 49	3 40
13	8 46	7 48	26 4	17 58	22 47	22 11	7 40	19 40	3 17
19	8 50	7 44	26 16	18 27	25 25	28 17	11 6	26	2 53
25	oia. 2	7 46	26 27	18 57	28 2	4 24	26 43	22 56	2 29

December, 1776.

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



Of the ECLIPSES this YEAR, 1776.

THIS Year will produce six Eclipses, four of the Sun, and two of the Moon, which will happen in the following Order.

The First Eclipse is of the Sun, and will happen on the 21st Day of January, near 3 o'Clock in the Morning; consequently invisible to us.

The Second will be a total Eclipse of the Moon, and will happen on Sunday the 4th Day of February, near 2 o'Clock in the Afternoon: invisible to us; but will be visible in the Eastern Parts of Europe, and throughout Asia.

The Third Eclipse is of the Sun, and will happen on the 19th Day of February, about half past One in the Afternoon; but invisible to us, by Reason of the Moon's South Latitude.

The Fourth Eclipse is likewise an invisible one of the Sun, and will happen on the 15th Day of July, near half past Three in the Afternoon.

The Fifth will be a total Eclipse of the Moon, and will be visible to us, and most Parts of Europe. It will happen on the 30th Day of July, near Midnight, as may be seen by the following Computation.

	London.			York.			Edinb.			
	h.	m.	s.	h.	m.	s.	h.	m.	s.	
Beg. of the Eclipse	10	8	27	10	4	0	9	55	14	
Beg. of total Darknes	11	8	11	11	3	44	10	54	58	July the 30 th , After- noon.
Middle — —	11	55	59	11	51	32	11	42	46	
End of total Darknes	12	43	47	12	39	20	12	30	34	
End of the Eclipse —	13	43	31	13	39	4	13	30	18	
Digits eclipsed —	18 ^o	59'		18 ^o	59'		18 ^o	59'		

The Sixth and last Eclipse is a very small invisible one of the Sun, and will happen on the 14th Day of August, near half past Five in the Morning.

November 24, Mercury will pass over the Disk of the Sun.

The Conjunction will be near half past 9 o'Clock at Night, and therefore will be invisible here.

Speculum Phænomenorum ad Annum 1776.

Days	JANUARY.	Days	MARCH.	Days	MAY.
2	♂ ♀ ♀ 19h.	1	♂ ♂ ♀ 14h.	1	♂ ♀ ♀ oh.
4	♀ Elong. max. à ☉	4	♂ in Apogeo.	6	♂ ♂ ♀ 5h.
—	Mat. 56° 51', rises	5	♂ ☉ ♀ 11h.	11	♂ ♀ in ☉
—	4h. om. before him.	7	♂ ♀ ♀ 19h.	12	♂ ☉ ♀ 8h.
5	♀ in Aphelio.	11	♀ in ☉	12	♂ in Perigeo.
9	♂ in Apogeo.	16	♂ ♀ ♀ 2oh.	15	♂ ♀ ♀ 11h.
13	♂ ♀ ♀ 8h.	18	♂ in Perigeo.	16	♂ ♂ ♀ 12h.
17	♂ ♀ ♀ 4h.	18	♂ ♀ ♀ oh.	16	♀ in Perihelio.
19	☉ in ♀ 21h. 7m.	19	♂ ☉ ♀ 11h.	17	♂ ☉ ♀ 5h.
—	Apparent time.	19	☉ in ♀ 12h. 22m.	17	♂ ♀ ♀ 17h.
20	♂ ♀ ♀ 14h.	19	♂ ♂ ♀ 17h.	19	♂ ♀ ♀ 7h.
20	♂ ☉ ♀ 15h.	23	♀ in ☉.	20	☉ in ♀ 1h. 52m.
21	♂ ☉ ♀ 2h.	24	♂ ♀ ♀ 18h.	26	♂ in Apogeo.
21	♂ ♂ ♀ 19h.	—	—	28	♂ ♀ ♀ 6h.
23	♂ in Perigeo.	Days	APRIL.	Days	JUNE.
29	♂ ♀ ♀ 21h.	1	♂ in Apogeo.	9	♂ in Perigeo.
Days	FEBRUARY.	2	♀ Elong. max. à ☉	12	♂ ♂ ♀ 6h.
6	♂ in Apogeo.	—	Mat. 27° 45', rises	14	♂ ♂ ♀ 7h.
7	♂ ♂ ♀ oh.	2	oh. 36m. before him.	14	♂ ♀ ♀ 9h.
9	♂ ♀ ♀ 15h.	3	♀ in Aphelio.	14	♀ Elong. max. à ☉
13	♀ in ☉	4	♂ ♀ ♀ 21h.	—	Veip. 24° 48', sets
16	♂ ♀ ♀ oh.	13	♂ ☉ ♂ oh.	—	1h. 45m. after him.
18	♀ in Perihelio.	14	♀ in Aphelio.	15	♂ ☉ ♀ 15h.
18	☉ in ♀ 11h. 52m.	15	♂ in Perigeo.	16	♂ ♀ ♀ 3h.
19	♂ ☉ ♀ 1h.	16	♂ ♀ ♀ 15h.	17	♂ ♀ ♀ 18h.
19	♂ ♂ ♀ 18h.	17	♂ ♂ ♀ 15h.	19	♀ in ☉
19	♂ in Perigeo.	17	♂ ☉ ♀ 2oh.	20	☉ in ♀ 1oh. 38m.
19	♀ Elong. max. à ☉	19	☉ in ♀ 1h. 14 m.	23	♂ in Apogeo.
—	Veip. 18° 5' sets 1h.	21	♂ ♀ ♀ 11h.	24	♂ ☉ ♀ 6h.
—	45m. after him.	28	♂ in Apogeo.	24	♂ ♀ ♀ 13h.
20	♂ ♀ ♀ 7h.	—	—	29	♀ in Aphelio.
26	♂ ♀ ♀ 4h.	—	—	—	—

Speculum Phænomenorum ad Annum 1776.

Days	JULY.	Days	SEPTEMBER.	Days	NOVEMBER.
2	♀ in ☿	1	♂ ♀ ☿ oh.	1	♂ ♀ ☿ 8h.
6	☽ in Perigeo.	7	♂ ♀ ☿ 7h.	2	♂ ☉ ☿ 10h.
11	♂ ☉ ☿ 12h.	8	♂ ☿ ☽ 13h.	3	♀ in ☿
13	♂ ☿ ☽ 22h.	12	♂ ☉ ☽ 10h.	4	♂ ☿ ☽ 23h.
13	♂ ♀ ☽ 22h.	13	♂ ♀ ☽ 6h.	7	☽ in Apogeo.
14	♂ ♀ ☽ 12h.	13	♂ ☿ ☽ 20h.	8	♀ in Perihelio.
14	♂ ☿ ☽ 18h.	13	☽ in Apogeo.	9	♂ ♀ ☽ oh.
15	♂ ☉ ☽ 3h.	14	♂ ♀ ☽ 22h.	9	♂ ☿ ☽ 14h.
16	♂ ♀ ☿ oh.	15	♀ in ☿	10	♂ ☉ ☽ 20h.
20	☽ in Apogeo.	22	☉ in ♄ oh. 6m.	12	♂ ♀ ☽ 23h.
21	☉ in ♀ 21h. 27m.	25	♀ in Aphelio.	19	♀ Elong. max. à ☉
21	♂ ♀ ☽ 23h.	27	☽ in Perigeo.	—	Mat. 19° 41' rises
		30	♂ ♀ ♀ 17h.	—	2h. 1m. before him.
Days	AUGUST.	Days	OCTOBER.	Days	DECEMBER.
1	♀ Elong. max. à ☉	4	♂ ♀ ☽ 21h.	21	☉ in ♄ 4h. 3m.
—	Mat. 19° 12' rises	7	♂ ☿ ☽ 6h.	21	☽ in Perigeo.
—	1h. 38m. before him.	10	♀ Elong. max. à ☉	24	♀ in Aphelio.
4	♀ in Perihelio.	—	Vesp. 24° 51' sets	28	♂ ♀ ☽ 16h.
5	♂ ♀ ☽ 20h.	—	oh. 34m. after him.		
7	♀ in ☿	10	☽ in Apogeo.	3	♂ ☿ ☽ 13h.
10	♂ ☉ ♀ 14h.	12	♂ ☉ ☽ 3h.	5	☽ in Apogeo.
10	♂ ♀ ☽ 15h.	12	♂ ♀ ☽ 11h.	6	♂ ♀ ☽ 13h.
10	♂ ☿ ☽ 20h.	13	♂ ♀ ☽ 16h.	9	♂ ☿ ☽ 12h.
12	♂ ♀ ☽ 13h.	14	♂ ☿ ☽ 8h.	10	♂ ☉ ☽ 13h.
12	♀ in Perihelio.	16	♂ ☉ ♀ 13h.	12	♀ in ☿
13	♂ ☉ ☽ 18h.	21	♀ in ☿	13	♂ ♀ ☽ 2h.
13	♂ ♀ ☽ 20h.	22	☉ in ♀ 7h. 55m.	18	☽ in Perigeo.
18	♂ ♀ ☽ 10h.	22	♂ ♀ ☿ 20h.	20	☉ in ♄ 16h. 24m.
22	☉ in ♀ 3h. 44m.	22	☽ in Perigeo.	22	♀ in Aphelio.
25	♂ ☉ ☿ 15h.	24		25	♂ ♀ ☽ 22h.
				31	♂ ☉ ☿ 7h.

A Table of the Eclipses of JUPITER'S first Satellites, reduced to correct or apparent Time, 1776. White.

JANUARY.				FEBRUARY.				APRIL.				AUGUST.			
Emergions.				Emergions.				Emergions.				Immergions.			
d.	h.	m.	s.	d.	h.	m.	s.	d.	h.	m.	s.	d.	h.	m.	s.
1	14	27	8	25	11	9	52	16	19	20	14	2	16	14	10
3	8	55	4	27	5	39	0	18	13	49	28	4	10	42	54
5	3	22	53	29	0	8	10	20	8	18	40	6	5	11	41
6	21	50	45	MARCH.				22	2	47	49	7	23	40	29
8	16	18	44	Emergions.				23	21	16	58	9	18	9	18
10	10	46	43	1	18	37	21	25	15	46	7	11	12	38	7
12	5	14	45	3	13	6	33	27	10	15	18	13	7	6	58
13	23	42	48	5	7	35	49	29	4	44	26	15	1	35	50
15	18	10	54	7	2	5	7	30	23	13	30	10	20	4	45
17	12	39	4	8	20	34	25	MAY.				18	14	33	42
19	7	7	16	10	15	3	43	Emergions.				20	9	2	38
21	1	35	31	12	9	33	3	2	17	42	30	22	3	31	36
22	20	3	49	14	4	2	25	4	12	11	26	23	22	0	35
24	14	32	9	15	22	31	40	6	6	40	21	25	16	29	35
26	9	0	33	17	17	1	8	8	1	9	14	27	10	58	37
28	3	28	59	19	11	30	30	9	19	38	0	29	5	27	40
29	21	57	27	21	5	59	54	11	14	6	59	30	23	50	42
31	16	25	56	23	0	29	17	13	8	35	49	SEPTEMBER.			
FEBRUARY.				24	18	58	41	15	3	4	36	Immergions.			
Emergions.				26	13	28	5	16	21	33	22	1	18	25	45
2	10	54	30	28	7	57	29	18	16	2	6	3	12	54	49
4	5	23	7	30	2	26	52	20	10	30	49	5	7	23	53
5	23	51	47	31	20	56	14	☽ near ☉				7	1	52	58
7	18	20	29	APRIL.				JULY.				8	20	22	4
9	12	49	14	Emergions.				Immergions.				10	14	51	8
11	7	18	2	2	15	25	37	27	8	48	4	12	9	20	13
13	1	46	53	4	9	55	0	29	3	16	45	14	3	49	17
14	20	15	46	6	4	24	24	31	21	45	27	15	22	18	21
16	14	44	40	7	22	53	44					17	16	47	26
18	9	13	37	9	17	23	3					19	11	16	31
20	3	42	38	11	11	52	22					21	5	45	35
21	22	11	41	13	6	21	40					23	0	14	38
23	16	40	46	15	0	50	58					24	18	43	38

A Table of the Eclipses of JUPITER's first Satelles, reduced to correct or apparent Time, 1776. White.

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

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 6th Day of December this Year, the Time of the Immersion of Jupiter's first Satelles be observed (by a Telescope) in an unknown Meridian, to happen at 10 h. 41 min. 58 sec. at night; I find by the Table, that the Time of this Immersion will happen (at the British Observatory) at 8 h. 7 min. 20 sec. the same Night: The Difference of the Times is 2 hours 34 min 38 sec. which being converted into Degrees and Minutes of the Equator, will make 38 deg. 39 min. 30 sec. the Longitude of the Place of Observation to the East; because the Time is more than that at the British Observatory.

A Table

A TABLE of the Times of High-Water at LONDON-BRIDGE
in the Morning and Afternoon of every Day in the Year
1776. White.

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

This Table may serve the following Places, by adding,

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

A Table of the Times of High-Water at LONDON-BRIDGE, in the Morning and Afternoon of every Day in the Year 1776. White.

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

	Adding,	h.	m.
For Fowey, Loo and Plymouth	— — — —	3	10
Dartmouth, Harborough and Hull	— — — —	3	30
Torbay and Timmouth	— — — —	3	40
Exmouth, Topsham and Lime	— — — —	3	50
Weymouth	— — — —	4	25
Bridgewater and Texel	— — — —	4	40
Portland and Hartlew	— — — —	5	50

A Table of the Times of High-Water at LONDON-BRIDGE, in the Morning and Afternoon of every Day in the Year 1776. 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.
F	4 9	4 29	1	4 40	5 1	1	5 56	6 23	F	6 11	6 35
2	4 50	5 11	2	5 22	5 48	2	6 50	7 17	2	7 0	7 25
3	5 32	5 58	3	6 13	6 42	F	7 45	8 15	3	7 56	8 17
4	6 24	6 52	4	7 12	7 43	4	8 45	9 15	4	8 44	9 11
5	7 20	7 54	5	8 14	8 46	5	9 46	10 13	5	9 38	10 4
6	8 28	9 3	F	9 18	9 50	6	10 40	11 7	6	10 31	10 58
7	9 38	10 11	7	10 22	10 53	7	11 34	11 59	7	11 26	11 52
F	10 43	11 15	8	11 23	11 49	8	0 15	0 23	F	0 19	0 19
9	11 47		9		0 15	9	0 46	1 8	9	0 44	1 8
10	0 14	0 41	10	0 39	1 2	F	1 31	1 53	10	1 34	1 59
11	1 5	1 28	11	1 24	1 45	11	2 15	2 37	11	2 23	2 47
12	1 51	2 13	12	2 7	2 28	12	2 54	3 10	12	3 6	3 24
13	2 32	2 50	F	2 44	3 0	13	3 27	3 43	13	3 41	3 59
14	3 4	3 18	14	3 15	3 29	14	4 0	4 16	14	4 10	4 39
F	3 32	3 46	15	3 44	3 58	15	4 36	4 57	F	4 59	5 19
16	3 59	4 12	16	4 15	4 32	16	5 19	5 42	16	5 44	6 8
17	4 29	4 47	17	4 51	5 10	F	6 9	6 36	17	6 36	7 2
18	5 4	5 22	18	5 33	5 56	18	7 6	7 36	18	7 31	8 0
19	5 44	6 7	19	6 24	6 53	19	8 8	8 41	19	8 33	9 7
20	6 34	7 2	F	7 25	7 57	20	9 16	9 52	20	9 41	10 15
21	7 35	8 8	21	8 32	9 8	21	10 25	10 58	21	10 49	11 22
F	8 44	9 21	22	9 45	10 22	22	11 32		F	11 44	
23	9 50	10 37	23	10 58	11 34	23	0 5	0 34	23	0 26	0 56
24	11 14	11 51	24	0 6	1 1	24	1 3	1 32	24	1 25	1 54
25		0 24	25	0 37	1 6	25	2 1	2 26	25	2 22	2 44
26	0 56	1 25	26	1 34	2 2	26	2 51	3 10	26	3 5	3 23
27	1 54	2 21	F	2 29	2 50	27	3 29	3 47	27	3 41	3 56
28	2 4	3 6	28	3 10	3 29	28	4 4	4 25	28	4 11	4 30
F	3 25	3 42	29	3 47	4 6	29	4 46	5 6	F	4 49	5 6
30	3 59	4 19	30	4 24	4 46	30	5 26	5 48	30	5 24	5 43
			31	5 8	5 32				31	6 3	6 24

Subtract.

h. m.

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

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

The SUN'S Declination North.

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

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

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

The Sun's Declination South.

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

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

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

The Sun's Declination North.

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

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

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

The Sun's Declination South.

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

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

A TABLE of the right Ascensions in Time, 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.	Bayer Ch.	R. Ascen. h. m. s.	Semidiurnal Arches. h. m. s.	Declination. d. m. s.	Magn.
The Southern Star, in Andromeda's Girdle, Mirach.	β	0 56 39	10 6 20	34 12 35 N	2
The bright one in her left Foot, Alamack;	γ	1 49 54	fets 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	fets not.	40 2 37 N	2 3
In Perseus's right Side, Algenib.	α	3 7 56	fets 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	fets 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 Harp Lyra.	α	18 29 7	fets 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, Egmahant.	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.	♈	♉	♊	♋	♌	♍
	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 25
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 43	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 39	11 30 37
23	1 25 5	3 22 22	5 29 30	7 39 20	9 41 24	11 34 18
24	1 28 51	3 26 28	5 33 51	7 43 35	9 45 17	11 37 58
25	1 32 37	3 30 34	5 38 12	7 47 48	9 49 10	11 41 39
26	1 36 24	3 34 40	5 42 34	7 52 1	9 53 2	11 45 19
27	1 40 11	3 38 48	5 46 55	7 56 13	9 56 53	11 49 0
28	1 43 59	3 42 56	5 51 17	8 0 25	10 0 44	11 52 40
29	1 47 48	3 47 5	5 55 38	8 4 35	10 4 34	11 56 20
30	1 51 37	3 51 14	6 0 0	8 8 46	10 8 23	12 0 0

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

Degr.	α	β	γ	δ	ϵ	ζ
	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 SIRIUS, Jan. 8, 1776.

Place of the Sun at Noon	—	—	—	—	17	17	54
Right Ascension of SIRIUS	—	—	—	—	6	35	3
Right Ascension of the Sun subtract	—	—	—	—	19	17	37
Estimate Time of the Star's Southing	—	—	—	—	11	17	26
Right Ascension of the Sun at that Time subtract	—	—	—	—	19	19	40
True Time of the Star's Southing	—	—	—	—	11	15	23
Semidiurnal Arch subtract and add	—	—	—	—	4	37	18
True Time of the Star's visible Rising Aftern.	—	—	—	—	6	38	5
True Time of the Star's visible Setting	—	—	—	—	15	52	41

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