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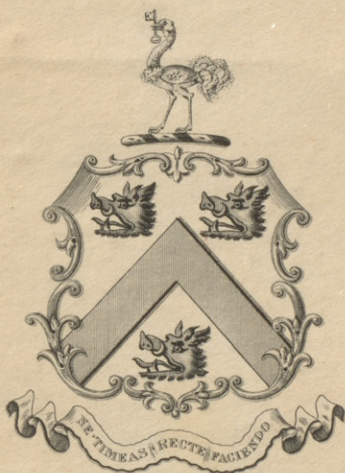
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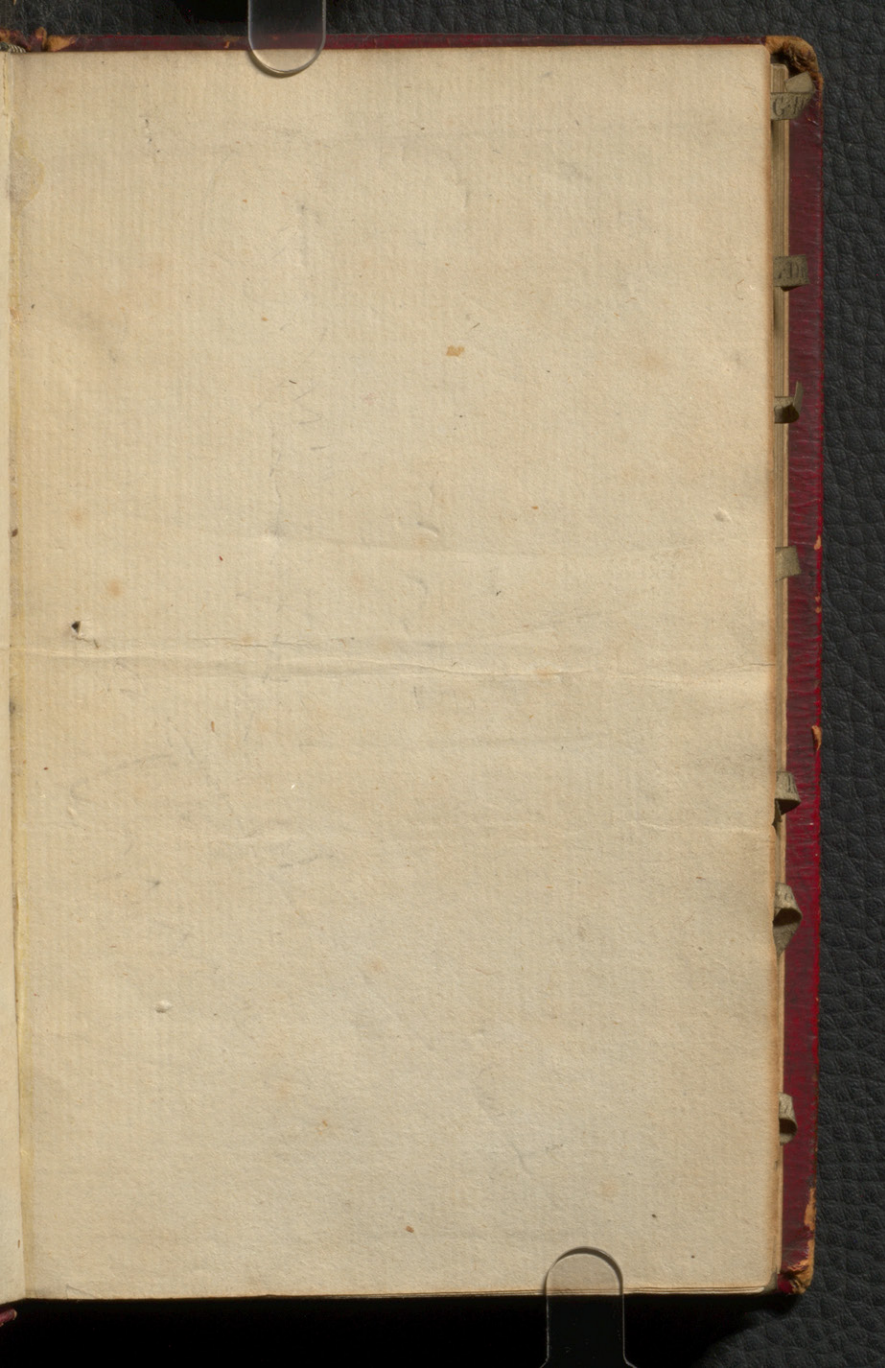


IN MEMORIAM

Peter Whiteford Redpath, B.Sc.
Jocelyn Clifford Redpath, B.C.L.



7 Almanacs



THE
Gentleman's Diary,

OR THE
MATHEMATICAL REPOSITORY;
An ALMANACK
For the YEAR of our LORD 1799:

BEING THE
THIRD AFTER BISSEXTILE.

Containing many useful and entertaining Particulars,
peculiarly adapted to the ingenious Gentlemen engaged
in the delightful Study and Practice of the

MATHEMATICKS.

The Fifty-ninth ALMANACK published of this Kind;
and the Forty-seventh of the NEW STYLE in ENGLAND.

————— With wise Intent
The Hand of Nature on peculiar Minds
Imprints a different Bias, and to each
Decrees its Province in the common Fate
To some she taught the Fabrick of the Sphere,
The changeful Moon, the Circuit of the Stars,
The golden Zones of Heaven, to some she gave
To weigh the Moment of eternal Things,
Of Time, and Space, and Fate's unbroken Chain,
And Will's quick Impulse.

AKENSIDE.

L O N D O N :

Printed for the Company of STATIONERS;
And Sold by GEORGE GREENHILL, Treasurer to the
Company, at their Hall, LUDGATE-STREET. 1799.

[Price Sixteen Pence stitched.]

ECLIPSES, &c. 1799.

There will be but two, both of Sun, and both invisible in Great Britain.

1. Early in the morning of the 5th of May, for it will be only 9 min. and an half after the midnight of the preceding day. The Sun will be centrally eclipsed on the meridian in longitude $177^{\circ} 37' \frac{1}{2} E.$ and latitude $8^{\circ} N.$ The conjunction will be $44 \frac{1}{2}$ before Γ in longitude $1 S. 14^{\circ} 27'.$ Δ 's latitude 7 min. S.

2. October 28, after sun-set here, the Sun will be eclipsed at 5 ho. $35' \frac{1}{2}$ in long. $7 S. 5^{\circ} 19'.$ Moon's lat. $7 \frac{3}{8} N.$ and will be centrally eclipsed on the meridian at 5h. 31m. in long. $82^{\circ} \frac{1}{4} W.$ and lat. $5^{\circ} \frac{1}{2} S.$ Venus will be an evening star till the 16th day of October, and after that a morning star during the remainder of the year.

Jupiter will be an evening star till the 30th day of May, and then a morning star till the 18th of December, after that an evening star to the year's end.

It was inserted in the copy last year, but omitted by the printer for want of room, that Mr. Howard, of Newcastle, had published a treatise on Spherical Geometry, with plates, price 4s. Which also was the case with the mention of the death of our valuable contributor Mr. John Burrows, of Bolton-field.

Letters, for this Diary, must be sent before the beginning of May next, directed to the Author of the Gentleman's Diary, Stationers-Hall, London.

The Author's best thanks are due, and hereby given, to all his kind contributors; and he assures them, that it is his wish and endeavour, as far as ever his room will admit, to oblige them all, and select the best of their performances, both poetical, critical, and mathematical. And indeed their own ingenuity has sufficiently stamped their merit and value.

The Author knows of no uncorrected errors of moment during the time that he has conducted the publication; if any such there be, he will thankfully receive information of them from any gentleman, and correct them another year.

Thanks are due to Mr. Farey for proposing quest. 753, concerning the wax-candle, and thereby affording an opportunity of bringing again under consideration quest. 609, about the exciseman's staff. Since it appears, from the solution at page 33 of the present Diary, that whatever be the inclination of the floating body to the horizon, the quantity of it immersed in the water will always be the same, or constant. Hence, in case of the staff, $SC=36 : Ca=23 ::$ the specific gravity of beer $=1.028$: that of the staff $=.6568$, which, multiplied by the weight .5787 of a cubic inch of water, whose specific gravity is unity, gives oz. av. .38 the weight of a cubic inch of the staff, which, multiplied by the solidity gives Oz. Av. 6.042 the required weight of the staff. Agreeing with Mr. Dalton's solution, mentioned at page 38 of the Diary for 1790.

It moreover now appears, that $\frac{160}{637}$, or about one-fourth part of the weight of the staff, will be supported by the side of the vessel.

JANUARY hath XXXI Days.

M ☉ Decl.
D South.

New Moon	6	}	Day	4 h. 14 m.	Morning.	1	22° 59'	
First Quarter	14			3	58	Morning.	6	22 28
Full Moon	21			5	41	Afternoon.	11	21 45
Last Quarter	28			10	50	Morning.	16	20 52

☉ enters 19th Day, 11 H. 3 M. Night.

21 19 50
26 18 37

1	T	Circumcision.	2 m 40	7 m 44	25	moist.
2	W		4 3	8 35	26	hazy.
3	T		5 28	9 30	27	
4	F		6 48	10 26	28	
5	S	Old Christmas Day.	7 55	11 23	29	dull.
6	F	Epiphany, or Twelfth-Day.	sets.	aft. 20	N	
7	M	Plough-Monday.	5 a	8 1	14 1	
8	T	Lucian.	6 20	2 4	2	frost.
9	W	Days increased 20 minutes.	7 35	2 50	3	fnow.
10	T		8 46	3 33	4	
11	F		9 56	4 14	5	
12	S	Old-Style Year begins.	11 5	4 53	6	
13	F	1st S. after Epiph. [Hilary.	mora.	5 32	7	rain.
14	M	Oxford T. beg. [Cam. T. beg		12 6	13 8	
15	T		1 23	6 55	9	cold.
16	W	Days increased 36 minutes.	2 35	7 41	10	fair.
17	T	Old Twelfth Day.	3 50	8 30	11	frost.
18	F	Q. Char. b. d. k. Prisca.	5 3	9 24	12	rain.
19	S		6 16	10 21	13	moist.
20	F	Septuagesima Sund. Fabian.	7 17	11 21	14	
21	M	Agnes. Hilary 1st return.	rises.	morn. F		
22	T	Vincent.	5 a	5 20	16	
23	W	Hilary T. beg. at Westminster	6 32	1 17	17	
24	T		8 3	2 12	18	
25	F	Conversion of St. Paul.	9 28	3 3	19	fair.
26	S	Days increased 1 ho. 2 min.	10 53	3 53	20	
27	F	Sexagesima S. Pr. Aug. Fred. b.	morn.	4 42	21	windy.
28	M	Hilary 2d return. [1773.		19 5	32 22	
29	T		1 43	6 23	23	stormy.
30	W	Q. Char. I. mart. 1649.	3 8	7 16	24	
31	T	Days increased 1 h. 21 m.	4 26	8 11	25	

D ☉ Rises ☉ Sets. | Cl. bef. ☉ | D. Break. | Sun East | Saturn So | Jupiter S. | Mars S.

1	8	5	3	55	4	7	5	59	4	41	o m	56	8 a	8	5 a	50
6		1		59	6	24		57		43		31	7	47	5	40
11	7	56	4	4	8	29		53		46		7	7	26	5	30
16		50		10	10	19		49		50	11 a	45	7	1	5	20
21		44		16	11	50		44		54	11	20	6	42	5	10
26		36		24	13	2		38		58	10	55	6	21	4	59

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FEBRUARY hath XXVIII Days.

M Decl.
D South.

New Moon	4	} Day at	8 h. 14 m.	Afternoon.	1	17° 0'
First Quarter	13		0 44	Morning.	6	15 30
Full Moon	20		5 3	Morning.	11	13 54
Last Quarter	26		8 22	Afternoon.	16	12 12
					21	10 26
☉ enters ♋ 18th Day, 1 H. 56 M. Afternoon.					26	8 35

M	W	Sundays, Holidays, Birth-Days, Terms, &c.	Moon R. & S.	Moon South	D	Wear
1	F	Days 9 no. 6 min. long.	5 m 37	9 m 7	26	misty.
2	S	Purif. B. V. M. Candlemas d.	6 36	10 3	27	moist.
3	F	Quinquagesima S. Blas. Bp.	7 26	10 58	28	
4	M	On mor. of Purif. 3 ret.) sets. 11 49		N	
5	T	Shrove Tuesday. Agatha.	5 a 12	aft. 37	1	fair.
6	W	Ash Wednesd. Lent begins.	6 24	1 22	2	misty.
7	T		7 36	2 4	3	
8	F		8 46	2 44	4	
9	S	In 8 d. Purif. 4 ret.	9 53	3 23	5	
10	F	1st Sunday in Lent.	11 3	4 3	6	
11	M	Days increased 2 h.	morn. 4 44		7	
12	T	Hil. Term end. Cam. T. div. m.	13	5 28	8	fair.
13	W	Ember Week. Old Cand. day.	1 26	6 15	9	showry.
14	T	Valentine.	2 40	7 6	10	stormy.
15	F		3 51	8 1	11	frost.
16	S	Days 10 hours long.	4 55	8 59	12	
17	F	2nd S. in Lent.	5 53	9 59	13	
18	M		6 36	10 59	14	
19	T		7 6	11 56	15	frosty
20	W	Days increased 2 h. 30 m.) rises. morn. F			and dry.
21	T		7 a 1	50	17	
22	F		8 31	1 43	18	
23	S		9 59	2 34	19	
24	F	3 Sun. in Lent. St. Matthias.	11 29	3 25	20	
25	M	[Pr. Au. Fied. b. 1774]	morn. 4 18		21	
26	T		56	5 12	22	
27	W	Days increased 3 hours.	2 19	6 7	23	
28	T		3 34	7 4	24	

D	☉ Rises	☉ Sets	☾ bef.	☾ D. Break.	☉ East	Sat. S.	Jup. S.	Mars S.
1	7 26	4 34	14 2	5 30	5 4	10 a 20	5 a 59	4 a 49
6	18	42 14	30	22	9	10 8	5 41	4 41
11	9	51 14	38	14	15	9 47	5 23	4 34
16	0 5	0 14	26	6	21	9 26	5 6	4 27
21	6 50	10 13	55	4 50	27	0 5	4 49	4 20
26	40	20 13	9	48	33	8 45	4 32	4 13

MARCH hath XXXI Days.

M ☉ Deci
D South.

New Moon	6	} Day at {	1 h.	34 m.	Afternoon.	1	7° 27'	
First Quarter	14		6	22	Afternoon.	6	5 32	
Full Moon	21		2	53	Afternoon.	11	3 35	
Last Quarter	28		7	34	Morning.	16	1 37	
							21	Nor. 21
							26	2 19

☉ enters 17th Day, at 2 H. 17 M. Afternoon.

1	F David.	4m	36	8 m	125	frosty
2	S Chad.	5	24	8	56 26	and
3	F 4th S. in Lent. Mid. L. S.	5	56	9	48 27	dry.
4	M Day 11 hours long.	6	21	10	36 28	
5	T	6	40	11	22 29	
6	W) sets. aft.		4 N snow.
7	T Perpetua. Old St. Matthias.	6 a	36		45 1	
8	F	7	46	1	25 2	
9	S	8	54	2	4 3	frosty
10	F 5 Sunday in Lent.	10	5	2	45 4	and
11	M Days increased 3 h. 50 m.	11	18	3	28 5	dry.
12	T Gregory, M.	morn.		4	13 6	
13	W		30	5	2 7	
14	T	1	42	5	55 8	
15	F Camb. Term ends.	2	57	6	50 9	
16	S Oxf. Term ends.	3	48	7	48 10	misty.
17	F 6th Sun. in Lent. Palm Sun.	4	34	8	47 11	dull.
18	M Edw. K. W. S. [St. Patrick.	5	10	9	44 12	
19	T	5	35	10	39 13	fair.
20	W Equinox. Spring begins.	5	56	11	33 14	moist.
21	T Benedict, Ab. Maund. Thursf.) rises.		morn. F		
22	F Good Friday.	7 a	33		26 16	
23	S	9	6	1	19 17	
24	F Easter-Day.	10	39	2	13 18	storms.
25	M An. or La. D. Easter-Monday.	morn.		3	8 19	
26	T Easter-Tuesday.		8	4	5 20	showry.
27	W	1	30	5	4 21	rain.
28	T	2	38	6	2 22	fair.
29	F	3	31	6	59 23	showry.
30	S [Days 12 h. 52 m. long.	4	9	7	53 24	
31	F 1st Sun. aft. Easter. Low-Su.	4	35	8	42 25	

D	☉ Rises	☉ Sets	☉ Cl. bef.	☉ D. Break	☉ East	Saturn S.	Jupiter S.	Mars S.								
1	6	32	5	27	12	35	4	4	5	36	8 a	34	4 a	22	4 a	8
6		24		36	11	29		31		42	8	27	4	7	4	3
11		14		46	10	12		20		48	8	20	3	52	3	58
16		4		56	8	47		10		55	8	13	3	37	3	53
21	5	54	6	6	7	17		0	6	1	8	6	3	22	3	48
26		44	6	16	5	44		3	48	7	7	0	3	8	3	42

A P R I L hath XXX Days.

New Moon	5	} Day at	{	7 h. 21 m.	Morning.	
First Quarter	13			7	47	Morning.
Full Moon	19			11	40	Night.
Last Quarter	26			8	30	Night.

M	Decl.
D	North.
1	4° 39'
6	6 33
11	8 25
16	10 13
21	11 57
26	13 36

☉ enters 8 20th Day, at 2 H. 56 M. Mornings:

1	M	Days increased 5 ho 12 min.	4	m	56	9	m	29	26	showers
2	T	Days 13 hours long.	5	11	10	11	27			
3	W	Oxf. and Camb. Term beg.	5	23	10	52	28			rain.
4	T	Ambrose. {Rich. Bp. of Chi-	5	35	11	32	20			showry.
5	F	Old Lady-Day. {chester.				12	N			rain.
6	S		8	a	0		52	1		
7		F 2d Sun. aft. Easter.	9	12	1	34		2		showry
8	M	In 15 days after Easter 1 ret.	10	28	2	19	3			and
9	T		11	42	3	6	4			cold.
10	W	Easter Term begins.								
11	T									
12	F									
13	S									
14		F 3d Sunday after Easter.								
15	M	In 3 Weeks after E. 2 ret.	3	44	8	33	10			
16	T		4	7	9	26	11			
17	W		4	26	10	18	12			fair.
18	T		4	41	11	10	13			
19	F	Alphege.								
20	S		8	a	10		3	15		
21		F 4th S. aft. East. Days in. 6h.	9	46		59	16			
22	M	In 1 Mon. aft. East. 3 ret. [3om.	11	14	1	57	17			showers
23	T	St. George.								fair.
24	W									
25	T	St. Mark. Prs. Mary born.	1	34	4	57	20			
26	F	[1776.	2	17	5	53	21			showry.
27	S		2	47	6	45	22			
28		F 5th Sun. after East. Rogat. S.	3	9	7	32	23			
29	M	In 5 Weeks after East. 4 ret.	3	25	8	17	24			
30	T	Days 14 hours 46 min. long.	3	38	8	58	25			

D	☉ Rues	☉ Sets	Cl. bef.	☉ D. Break	☉ East	Saturn S.	Jupiter S.	Mars S.										
1	5	31	6	29	3' 53"	3	31	6	15	6	a	40	2	a	51	3	a	37
6		22		38	2	23		19		21	6	23		2	37	3	32	
11		13		47		59		4		27	6	6		2	23	3	27	
16		3		57	aft.	18		2		33	5	49		2	9	3	22	
21	4	54	7	6	1	26		38		39	5	31		1	55	3	17	
26		45		15	2	23		23		44	5	13		1	41	3	13	

M A Y hath XXXI Days.

M Decl.
D North.

New Moon 4
First Quarter 12
Full Moon 19
Last Quarter 26

Day at
 { 0 h. 14 m. Morning.
 { 5 9 Afternoon.
 { 7 51 Morning.
 { 11 5 Morning.

1	15°	9'
6	16	36
11	17	57
16	19	10
21	20	14
26	21	10

☉ enters 11 21st Day, at 3 H. 25 M. Morning.

1	W	St. Philip and St. James.	3 m 51	9 m 38	26	fair.
2	T	Ascension-D. or Holy Thurs.	4 1	10 17	27	thund.
3	F	Invent. Cross. On. mor. Asc.	4 13	10 57	28	& rain.
4	S	[5 return. sets.	11 38	N		
5	F	Sunday after Ascension Day.	8 a 23	aft. 22	1	
6	M	Easter Term ends. St. John	9 35	11 8	2	
7	T	[Ev. A. P. L.	10 46	1 58	3	rain.
8	W		11 50	2 51	4	fair.
9	T	Oxford Term ends.	morn.	3 46	5	windy.
10	F		4 43	4 41	6	rain.
11	S		1 23	5 36	7	flood.
12	F	Whit-Sund. Old May-Day.	1 53	6 29	8	showry.
13	M	Whit-Monday.	2 16	7 20	9	hail.
14	T	Whit-Tuesday.	2 34	8 10	10	fair.
15	W	Ember Week	2 49	9 0	11	
16	T		3 4	9 51	12	showry.
17	F	Prs. Wales b. 1768.	3 19	10 44	13	
18	S		3 36	11 40	14	fair.
19	F	Trin. Sun. O. Char. b. 1744.	rises.	morn.	F	showers
20	M	[Cam. T. div. m. Dunst. on	10 a 9	40	16	and
21	T	[mor. H. T. 1 return.	11 20	1 41	17	thund.
22	W	Prs. Eliz. b. 1770. Ox. T. beg.	morn.	2 42	18	fair.
23	T	Corpus Christi.	12 3	41	19	
24	F	Trinity Term begins.	49	4 37	20	
25	S		1 14	5 27	21	
26	F	1st S. aft. Trin. Aug. 1 Abp. C.	1 32	6 13	22	thunder
27	M	V. Bede. In 8 d. of H. Tr. 2 ret.	1 46	6 56	23	and
28	T		1 58	7 37	24	rain.
29	W	K. Charles II. rest. 1660.	2 10	8 16	25	fair.
30	T		2 20	8 55	26	showers
31	F		2 33	9 36	27	

D	☉ Rises	☉ Sets	Cl. aft.	☉ D. Break	☉ East	Saturn S.	Jupiter S.	Mars S.
1	4 35	7 25	3' 8"	2 5	6 50	4 a 55	1 a 27	3 a 8
6	27	33	3 38	1 51	56	4 37	1 12	3 2
11	19	41	3 55	1 29	7 0	4 19	0 57	2 56
16	12	48	3 58	1 6	5 4	5 0	42	2 50
21	5	55	3 47	0 30	9 3	43	0 27	2 44
26	3 58	8 2	3 22	No night	11 3	25	0 13	2 39

J U N E bath XXX Days.

M ☉ Decl.
D North.

New Moon	3	}	Day	3 h.	5 m.	Afternoon.				
First Quarter	10			11	28	Afternoon.		1	22	6
Full Moon	17			4	5	Afternoon.		11	23	7
Last Quarter	25			3	14	Morning.		16	23	22

☉ enters ☽ 21st Day, at 0 H. 3 M. Afternoon.

1	S	Nicomede.	2m 45	10 m 17	28	showers
2	F	2d Sun. aft. Trinity.	3	11	3	29 every
3	M	In 15 Days. Hil. Trin. 3 ret.	☽ sets.		11 52	N day.
4	T	K. Geo. III b. 1738.	9 a	42	aft. 45	1
5	W	Pr. Br. Aug. b. 1771. Boniface.	10	39	1 39	2
6	T		11	22	2 35	3
7	F		11	56	3 30	4
8	S		morn.		4 23	5
9	F	3d Sun. aft. Trinity.	18	5	14	6 fair.
10	M	In 3 Weeks of Hil. Tr. 4 ret.	38	6	3 7	7 fine.
11	T	St. Barnabas.	53	6	51	8
12	W	Trinity Term ends.	I	7	7 40	9
13	T		I	21	8 30	10 showry.
14	F		I	37	9 23	11
15	S		I	56	10 19	12 fair.
16	F	4th Sun. aft. Trinity.	2	20	11 18	13 hot.
17	M	Alban.	☽ rises.		morn. F	
18	T		9 a	55	20 15	15 fair.
19	W		10	40	1 20	16
20	T	Transla. Edw. K. W. S.	11	10	2 19	17
21	F	Longest day.	11	31	3 12	18
22	S		11	48	4 1	19 showers
23	F	5th Sun. aft. Trinity.	morn.		4 46	20 fair.
24	M	St. John Bap. Midsum-day.	0	5	27	21 fine.
25	T		12	6	7 22	
26	W		23	6	47 23	
27	T		34	7	27 24	
28	F		47	8	8 25	
29	S	St. Peter, Apof. and Mart.	I	3	8 53	26 showers
30	F	6th Sun. aft. Trinity.	I	23	9 40	27 thunder

D ☉ Rises		☉ Sets		Cl. aft. ☉		☉ East		Saturn S.	Jupiter S.	Mars S.					
1	3	52	8	8	2'	36"	No	7	16	3 a	4	11 m	54	2 a	31
6		48		12	1	46	real		18	2	46	11	38	2	24
11		45		15	0	48	Night		19	2	28	11	22	2	17
16		43		17	bef.	13	in		20	2	10	11	6	2	10
21		43		17	1	17	Bri-		21	1	52	10	50	2	3
26		43		17	2	21	tain.		20	1	34	10	35	1	59

JULY hath XXXI Days.

M ☉ Decl.
D Nor h.

New Moon	3	}	Day	{	3 h. 27 m.	Morning.	11 23° 7
First Quarter	10				4 12	Morning.	6 22 41
Full Moon	17				1 17	Morning.	11 22 6
Last Quarter	24				8 36	Afternoon.	16 21 21

☉ enters ♏ 22d Day, 10 H. 53 M. Afternoon.

1	M		1 m 50	10 m 31	28	showers
2	T	Vis. of B. V. M. Cam. Com.	2 29	11 26	29	every
3	W	Dog-days begin.	☽ sets.	aft. 22	N	day.
4	T	Translation of St. Martin.	9 a 52	1 18	1	
5	F	Cam. T. ends. O. M. Day.	10 17	2 13	2	
6	S		10 38	3 5	3	
7	F	7th Sun. af. Trin. T. à B.	10 54	3 55	4	
8	M	Oxford Act.	11 9	4 44	5	fair.
9	T		11 22	5 31	6	fine.
10	W	Old St. Peter.	11 37	6 20	7	
11	T		11 55	7 11	8	
12	F		morn.	8 4	9	showry.
13	S	Oxf. Term ends.	15 9	1 10		
14	F	8th Sun. aft. Tr. D. dec. 26m.	45 10	1 11		fair.
15	M	Swithin.	1 28	11 12		hot.
16	T		2 25	morn. 13		
17	W		☽ rises	0	F	fair.
18	T		9 a 37	56 15		
19	F		9 47	1 47	16	
20	S	Margaret.	10 2	2 34	17	
21	F	9th Sun. aft. Tr. D. dec. 44m.	10 14	3 18	18	
22	M	Magdalen.	10 25	3 59	19	showers
23	T		10 37	4 39	20	fair.
24	W		10 48	5 19	21	fine.
25	T	St. James, Apostle & Mart.	11 2	5 59	22	
26	F	Anne.	11 20	6 42	23	
27	S	Days decreased 1 hour.	11 45	7 28	24	
28	F	10th Sunday after Trinity.	morn.	8 18	25	
29	M		20	9 11	26	showers
30	T		1 7	10 8	27	chunder
31	W		2 10	11 5	28	

	☉ Rises	☉ Sets	☉ Cl. bef.	☉ D. Break	☉ East	Saturn S.	Jupiter S.	Mars S.
1	3 46	8 14	10 23		7 19	1 a 15	10 m 19	1 a 46
6	49	11 11	11 54	No	18 0	57 10	3 1	39
11	53	7 13	15	real	15 0	39 9	47 1	32
16	58	2 14	23	Night.	12 0	21 9	32 1	25
21	4 4	7 56	15 17		9 0	3 9	17 1	17
26	11	49 15	54	0 52	5 11 m	44 9	1 1	9

AUGUST hath XXXI Days,

New Moon	1	} Day at	{	1 h. 46 m.	Afternoon.		11	17°	59	
First Quarter	8			8	55	Morning.		6	16	40
Full Moon	15			0	29	Afternoon.		11	15	13
Last Quarter	23			2	21	Afternoon.		16	13	41
New Moon	30			11	0	Night.		21	12	3

☉ enters ♌ 23d Day, at 4 H. 17 M. Morning.

D.	Day	D sets.	att.	3	N	thunders
1	T Lammas-Day.	8 a 39		56	1	showers
2	F	8	59	1	49	2
3	S	9	14	2	39	3
4	F 11th Sunday after Trinity.	9	29	3	28	4 fair.
5	M	9	43	4	17	5
6	T Transfiguration. [Jesus.	9	59	5	7	6
7	W Prs. Ameliab. 1783. Name of	10	19	5	59	7
8	T Days 14 ho. 56 m. long.	10	46	6	55	8
9	F	11	23	7	53	9 showers
10	S Lawrence. [1737.	morn.	8	53	10	
11	F 12th S. of Trin. Du. Brunf. b.		15	9	52	11 fair.
12	M Pr. Wales b. 1762. Dog D. c.	1	20	10	48	12 fine
13	T [Old Lam. Day.	2	36	11	41	13 harvest
14	W	D rises	morn	4	1	14 weather
15	T Assumption. B. V. M.	8 a 10		30	15	15 with
16	F Duke of York born 1763.	8	22	1	15	16 showers
17	S	8	34	1	57	17 at
18	F 13th Sunday after Trinity.	8	46	2	37	18 interval
19	M	8	59	3	17	19 showers
20	T	9	12	3	58	20 fair.
21	W D. of Clarence b. 1765.	9	27	4	40	21 fine.
22	T	9	49	5	25	22 showers
23	F Days 14 hours long.	10	19	6	12	23 showers
24	S St. Bartholomew.	10	59	7	4	24 and
25	F 14th Sunday after Trinity.	11	54	7	59	25 hot.
26	M	morn.	8	5	26	
27	T	1	6	9	52	27
28	W Augustine of H.	2	25	10	49	28 fine.
29	T St. John Baptist beheaded.	fets	11	43	N	
30	F	7 a 25	att	35	1	30 fair.
31	S					

D.	☉ Rises	☉ Sets	Cl. bef. ☉	D. Break ☉	☉ East	Saturn S.	Jupiter S.	Mars S.		
1	4	20	7 40	5' 55"	1 24	6	59	11 m 21	8 m 43	1 a 0
6		27	33 5	30	1 44		54	11 6	8 28	0 53
11		36	24 4	50	2 2		49	10 51	8 13	0 46
16		45	15 3	56	20		44	10 36	7 58	0 39
21		54	6 2	49	35		38	10 21	7 43	0 33
26		5	3 6	57	1 31		33	10 6	7 27	0 27

SEPTEMBER hath XXX Days.

First Quarter 6 } Day { 2 h. 59 m. Afternoon.
 Full Moon 14 } at { 2 31 Morning.
 Last Quarter 22 } { 7 23 Morning.
 New Moon 29 } { 8 4 Morning.

☉ Decl. 8° 12'
 ☽ North.

☉ enters ♌ 23d Day, 1 H. 49 M. Morning.

1	F	15th S. aft. Tr. Giles Ab. & C.	7	a	38	1	26	2	showry.
2	M	London burnt 1666. O. S.	7	51	2	17	3		
3	T		8	11	3	8	4	fair.	
4	W	Old St. Bartholomew.	8	30	4	1	5	fine.	
5	T		8	55	4	57	6	showers	
6	F		9	28	5	55	7	at inter-	
7	S	Emurchus.	10	14	6	54	8	vals.	
8	F	16th S. aft. Tr. Nat. B.V.M.	11	18	7	54	9		
9	M		morn.	8	51	10	10	fair.	
10	T			31	9	44	11	fine	
11	W		1	50	10	33	12	rain.	
12	T		3	7	11	19	13	storms.	
13	F		4	25	morn.		14		
14	S	Holy Cross.	☽ rises.	0	2	7		rain.	
15	F	17th Sunday after Trinity.	7	a	1	0	43	16	fair.
16	M		7	13	1	23	17	showers	
17	T	Lambert.	7	25	2	3	18	fine	
18	W	Ember Week.	7	40	2	45	19	showers	
19	T		7	59	3	28	20	rain.	
20	F		8	25	4	11	21	showers	
21	S	St. Matthew, Evang.	9	0	5	4	22	fair.	
22	F	18th S. aft. Tr. K. Geo. III.	9	46	5	57	23	fine.	
23	M	Aut. Equinox. [cr. 1761.	10	51	6	51	24	fair.	
24	T		morn.	7	47	25			
25	W	Old Holy Rood.	7	8	42	26		rain.	
26	T	St. Cyprian.	1	31	9	3	27	moist.	
27	F		3	0	10	30	28		
28	S	[Prs. Wirt. b. 1766.	4	20	11	22	29		
29	F	19th Sun. aft. Tr. St. Mich.	☽ sets. aft.		13	N			
30	M	Jerome.	6	a	24	1	5		

☽ Rises ☽ Sets ☽ Cl. aft. ☽ D. Break ☽ East ☽ Saturn S. ☽ Jupiter S. ☽ Mars S.

1	5	15	6	45	0	14	3	7	0	26	9	m	47	7	m	9	0	a	19
6		25		35	1	51		21		20	9		31	6	54	0			13
11		34		26	3	33		34		14	9		15	6	39	0			7
16		44		16	5	18		45		8	9		6	6	23	morn.			
21		54		6	7	4		56		2	8		44	6	7	11			54
26	6	4	5	56	8	46	4	7	5	55	8		28	5	51	11			48

OCTOBER hath XXXI Days.

M ☉ Decl.
D South.

First Quarter	5	}	Day	{	11 h.	34 m.	Night.
Full Moon	13				7	24	Afternoon.
Last Quarter	21				10	44	Night.
New Moon	28				5	36	Afternoon.

1	3°	17'
6	5	13
11	7	7
16	8	59
21	10	48
26	12	13

☉ enters ♀ 23d Day at 9 H. 51 M. Morning.

1	T	Remigius, Bp.	6 a 41	1	59	2	fair
2	W	Old St. Mathew.	7	4	2	56	3 but
3	T		7	35	3	55	4 misty.
4	F		8	18	4	56	5
5	S		9	17	5	57	6
6	F	20th S. aft. Tr. Faith, V. M.	10	28	6	55	7
7	M		11	46	7	50	8
8	T		morn.		8	40	9
9	W	Denys, B. M. D. 11 h. 1.	1	5	9	26	10
10	T	Ox. & Cam. T. beg. O. Mich. D.	2	21	10	9	11 fair
11	F		3	35	10	50	12 and fine.
12	S	[Conf.	4	47	11	30	13
13	F	21st S. aft. Tr. Tr. K. Ed.	D rises.		morn.		F
14	M		5 a	40		10	15
15	T		5	56		51	16
16	W	Days decreased 6 hours.	6	12	1	34	17
17	T	Etheldreda, V.	6	34	2	19	18
18	F	St. Luke, Evang.	7	4	3	6	19
19	S	[4 m. l.	7	47	3	57	20
20	F	22d S. aft. Trin. D. 10 h	8	43	4	50	21
21	M		9	52	5	44	22
22	T		11	11	6	38	23 rain.
23	W		morn.		7	31	24
24	T			34	8	23	25
25	F	K. Geo. III. Ac. 1760. Crisp.	2	0	9	13	26 showers
26	S	K. Geo. III. Procla. 1760.	3	29	10	4	27
27	F	23d Sunday after Trinity.	4	57	10	55	28
28	M	St. Simon and St. Jude.	D sets.		11	48	N
29	T		5 a	11	aft.	44	1
30	W		5	35	1	43	2
31	T	Days 9 h. and half long.	6	15	2	46	3

	☉ Rises	☉ Sets	Cl. aft.	☉ D. Break	☉ East	Saturn S.	Jupiter S.	Mars S.
1	6 m 14	5 46	10' 23"	4 18	5 49	8 m 12	5 m 34	11 m 41
6	24	36	11 54	29	43	7 55	5 16	11 34
11	33	27	13 15	39	37	7 38	4 58	11 28
16	43	17	14 23	49	31	7 21	4 40	11 21
21	53	7	15 17	59	25	7 4	4 22	11 15
26	7 21	4 58	15 54	5 8	19	6 46	4 4	11 9

NOVEMBER hath XXX Days.

M^o Decl.
D South.

First Quarter	4	} Day at	11 h. 34 m.	Morning.	1	14°	32'	
Full Moon	12		2	8	Afternoon.	6	16	5
Last Quarter	20		11	50	Morning.	11	17	31
New Moon	27		3	50	Morning.	16	18	50
						21	20	0
						26	21	1

☉ enters ♄ 22d Day, at 6 H. 9 M. Morning.

1	F	All Saints.	1 ret.	7	a	9	3	50	4		
2	S	P. Edw. b. 1767. All Souls.		8		16	4	50	5	misty.	
3	F	24 th Sun. aft. Trin. Prs. Sop.		9		34	5	47	6		
4	M	K. Wm. landed. [b. 1777.]		10		54	6	40	7	misty.	
5	T	Powder Plot, 1605. O. S.		morn.			7	27	8	fair	
6	W	Leonard. Mich. T. beg.				12	8	11	9	and	
7	T					1	27	8	52	10	frosty
8	F	Prs. Aug. Soph. born. 1768.		2		38	9	52	11	weath.	
9	S	Lord Mayor's Day at London.		3		49	10	12	12		
10	F	25 th Sunday after Trinity.		4		59	10	52	13		
11	M	Martin. [div. at midnight.]		6		11	11	34	14	fine	
12	T	On. mor. Mart. 2 ret. Ca. T.		D rises			morn.				
13	W	Britius.		4	a	40		18	16	and	
14	T	Machutus, B.		5		8	1	4	17	fair	
15	F			5		46	1	54	18	with	
16	S	Days 8 h. 42 m. long.		6		36	2	46	19	frost.	
17	F	26 th S. aft. Trin H. bp. L.		7		41	3	39	20		
18	M	In 8 d. Mart. 3 ret. Days d. 8 h.		8		54	4	32	21		
19	T			10		13	5	23	22		
20	W	Edmund K. & M.		11		36	6	13	23		
21	T			morn.			7	2	24		
22	F	Cecilia. Old St. Martin.				59	7	50	25		
23	S	St. Clement.		2		23	8	38	26	rain	
24	F	27 th Sunday after Trinity.		3		51	9	28	27	and	
25	M	D. of Glo. b. 1743. Cath. in		5		21	10	21	28	fnow.	
26	T	[15 d. of St. Mart. 4 ret.		6		55	11	18	20	fair.	
27	W			D sets			aft.				
28	T	Michaelmas Term ends.		4	a	45	1	24	1	fnow.	
29	F			5		49	2	28	2		
30	S	St. Andrew, Apostle.		7		6	3	29	3	thaw.	

D	☉ Rises	☉ Sets	☉ Cl. aft.	☉ D. Break	☉ East	Saturn S.	Jupiter S.	Mars S.											
1	7	13	4	47	16	14	5	17	5	12	6	m	24	3	m	40	11	m	0
6		22		38	16	9		24		7	6		4	3	18	10	53		
11	m	30	m	30	15	43		33		1	5	49	2	56	10	46			
16		38		22	14	56		37	4	57	5	20	2	34	10	39			
21		45		15	13	48		43		52	5	0	2	12	10	31			
26		52		8	12	20		49		49	4	43	1	50	10	22			

DECEMBER hath XXXI Days.

M Decl.
D South.

First Quarter 4	} Day	at	3 h. 26 m.	Morning.	1	21°	52	
Full Moon 12			8	55	Morning.	6	22	53
Last Quarter 19			10	41	Night.	11	23	3
New Moon 26			2	54	Afternoon.	16	23	21
					21	23	27	
					26	23	22	

☉ enters 1st Day, at 6 H. 33 M. Afternoon.

1	F Advent Sunday.	8 a 27	4 a 25	5	rain.	
2	M	9 49	5 16	5		
3	T	11 7	6 1	6		
4	W	Days 8 hours long.		morn.	6 44 7	
5	T	0 22	7 24	8		
6	F	1 32	8 3	9	Nicholas, Bp.	
7	S	2 41	8 42	10		
8	F 2 ^d Sund. in Adv. C. of V. M.	3 49	9 23	11		
9	M	5 6	10 6	12		
10	T	6 12	10 51	13	fine.	
11	W	7 23	11 40	14		
12	T	D rises.		morn.	F	
13	F	4 a 22	0 32	16	Lucy, V. M.	
14	S	5 22	1 21	17		
15	F 3 ^d Sunday in Advent.	6 35	2 18	18		
16	M	O. Sap. Cam. Term ends.	7 53	3 10	19	
17	T	Oxford Term ends.	9 12	4 0	20	windy.
18	W	Ember Week.	10 33	4 48	21	
19	T		11 54	5 34	22	stormy.
20	F	morn.		6 21	23	
21	S	St. T. Apost. Shortest Day.	1 16	7 8	24	
22	F 4 th Sund. in Adv. Days 7 h.	2 40	7 57	25		
23	M	[44 min. long.	4 10	8 50	26	
24	T		5 43	9 47	27	fair.
25	W	Christmas Day.	7 11	10 49	28	
26	T	St. Stephen, Protomartyr.	D sets.		11 53	N mild.
27	F	St. John Ev.	4 a 26	aft.	57	1
28	S	Innocents Day.	5 41	1 56	2	
29	F 1 st Sunday after Christmas.	7 1	2 51	3	fair.	
30	M	Days increased 6 minutes.	8 32	3 40	4	
31	T	Silvester, Bp.	9 49	4 25	5	

	D	☉ Rises	☉ Sets	Cl. aft.	☉ D. Break	☉ East	Saturn S.	Jupiter S.	Mars S.	
1	7	57	4	3	10 33	5 54	4 45	4 m 22	1 m 26	10 m 10
6	8	2	3	58	8 31	56	43	3 59	1 10	3
11		5		55	6 17	58	41	3 36	0 36	9 56
16		7		53	3 53	0	40	3 13	0 11	9 49
21		8		52	1 24	1	39	2 50	11 a 41	9 41
26		7		51	bef. 6	0	40	2 27	11 16	9 33

ANSWERS to the QUESTIONS critical and philosophical.

CLXXXI. By *Eumenos*.

It appears from the 22d and 23d ver. of this *chap.* that the design of our Lord in what he did to the fig-tree, was to shew the efficacy of faith; and his power over the vegetable kingdom. For it is not to be supposed that he, to whom the winds and the sea were obedient, and who knew men's secret thoughts, did not also know the state of this fig-tree to be such, that no fruit was to be expected from it: but this miracle of his gave him an occasion of exhorting his disciples, and shewing them that he was Lord over the vegetable as well as animal part of the creation; and he accordingly takes the opportunity of bidding them have faith in God.

Ingenious answers were also given by *Aromatis Junior*, Mr. *J. Cairns*, Mr. *Jon. Horn*, Mr. *R. Humber*, Mr. *J. Needham*, Mr. *R. Robinson*, Mr. *Alex. Rowe*, *Rusticus*, and Mr. *John Wyrill*.

CLXXXII. By Mr. *A. Glendenning*, of the Royal Navy.

Various conjectures have been made concerning the origin of this foolish custom. *Bourne* (in his *Antiquitates Vulgares*) supposes it originated (by a removal, which was often convenient in the Roman Calendar) either from the *feast of fools*, held the first of January, or *Auld-Fools-Day*, which was the first of November. Mr. *Goodaker* (in the *British Oracle*, published 1769) derives it from the rape of the *sabine virgins* by order of *Romulus*. Mr. *Swift*, of *Stow*, (in *Carnan's Diary*, for 1785) is of opinion that it took its rise from the *Cuckoo's* coming about the beginning of April, making fools of other birds, and cuckooing them by laying in their nests. And Mr. *Shepherd* (*ibid.* the proposer) thinks it originated from the Saxons sending messages to one another on this day, to announce the probability of obtaining a signal victory over the Welch; but next day the battle was fought, and the Saxons routed.

And according to one or other of these ways is the answer given by Mess. *Cairns*, *Horn*, *Humber*, *Needham*, *Robinson*, and *Rowe*. But another correspondent is of opinion, from what is said in *Maurice's Indian Antiquities*, that it seems reasonable to suppose, that this custom, of making tools on the first of April, originated from the heathen sports and pastimes instituted on that day, in the age of the world when the vernal equinox happened upon it.

CLXXXIII. By *Rusticus*, of Stafford.

To fine ashes one pound that's fresh burn'd from ash-wood,
Add three pints of water that's soft, clear, and good:
And stir them well up once or twice in an hour,
For at least half a day, and it may require more;
For mind, till the earthy part is quite subdued,
The aqueous must not from it be divided;
And when it looks clear, and has stood long enough,
Great care must be taken in racking it off.
Then to one pint boil it; and when this is done,
While warm with a sponge rub it carefully on.
If this should not answer, don't let it alarm,
Of soap a strong lather will do it no harm.
But there need of some care, so be mindful I pray,
That the *li.* nor the lather too long on don't stay.

CLXXXIV

CLXXXIV. By Mr. *J. Wyrill* of Wistow, near Selby.

The eye being particularly the index of the mind, every thing which affects the one must necessarily be shewn by the other. Now, as sudden joy, as well as sudden sorrow, may be too violent for the animal spirits to bear calmly, no wonder if the nerves that affect the glands of the eyes cause them to discharge tears, from whatever cause they are irritated.

Like answers are given by *Aromatis Junior*, *Mr. Cairns*, *Mr. Horn*, *Mr. Needham*, and *Mr. Rowe*.

CLXXXV. By Mr. *Alex. Rowe*, of Reginnis, Cornwall.

It appears to me that they ought always to be understood in their full absolute sense: except where the ruling passion coincides with reason.

Mr. Wyrill, the proposer, says, I believe that the ruling passion will always govern a man while he is in a natural or unconverted state: and consequently conquer reason. But when, by Divine Grace, he is converted to a proper knowledge of himself, and believes truly in the Gospel, the influence of reason, assisted by the holy spirit of God, will be able to keep even the ruling passion within proper bounds; or, which is the same thing in effect, the ruling passion itself will be converted into a branch of reason or swallowed up in it. *St. Paul* is a memorable instance. His ruling passion was zeal for religion, which, in his natural state, drove him to the unreasonable and inhuman acts of persecution. But after his conversion his ruling passion coincided with his reason, and caused him to labor more abundantly than all the apostles.

Like answers are also given by Messrs. *Cairns*, *Horn*, *Needham*, *Robinson*, and others.

CLXXXVI. By Mr. *Jonathan Horn*, of Briscoe.

It is caused by the refraction of the rays of light passing through a very thin misty vapor, in the upper region of the air. And thus it is also answered by Messrs. *Cairns*, *Glendinning*, *Needham*, *Robinson*, *Rowe*, *Rusticus*, and *Wyrill*.

CLXXXVII. By Mr. *R. Robinson*, of Bowes.

Sea-sickness proceeds more from the motion of the ship than any other cause. And the intestines of children are not put out of order thereby like those of grown people, because infants are almost hourly accustomed to similar motions.

And thus nearly is the answer given by Messrs. *Cairns*, *Needham*, *Rowe*, and *Rusticus*.

CLXXXVIII. By Mr. *John Needham*, of Hinckley.

Kind first, by union every creature,	love;
Subsists through universal nature.	Touch'd by the all-enliv'ning flame,
And this, to beings void of mind,	Then motion first exulting came,
Is wedlock, of a meaner kind.	Each atom sought its separate class,
While womb'd in space, primeval	Thro' many a fair enamour'd mass:
A yet unfashion'd embryo lay; [clay	Love cast the central charm around,
The source of endless good above	And with eternal nuptials bound.
Shot down his spark of kindling	<i>Moore.</i>

The ingenious proposer, *Medicus Bostniensis*, says, from the great quantity of calcareous earth that abounds in every part of the world, it appears to be necessary to its very existence, and the great varieties

of its combinations tend to prove, that its origin is of equal date with the earth, or matter with which it combines. There does not seem to be any similarity between shells and flints; yet, in large beds of chalk, masses of the latter are found in considerable quantities; and likewise some large flints have cavities in them containing chalk. From these circumstances it would appear, that calcareous earth is *sui generis*, and had its existence at the formation of the world, equally with the other earths.—And Messrs. *Aomatis Junior, Cairns, Rowe,* and *Wyrill*, also gave ingenious answers.

CLXXXIX. By *Rusticus*.

Every person labouring under that dreadful disorder is in a hot burning fever, and the motion of the blood too rapid to be abated by the power of medicine.

Mr. *Rowe* says, this malady has so strong a tendency to coagulate the blood and humours, that the strongest sudorifics cannot overcome it. And Messrs. *Cairns* and *Robinson* also gave answers.

CXC. By *Medicus Bostoniensis*.

Each process requires the aid of oxygen gas, which becomes decomposed by its base joining with the substance it acts upon, and the caloric assuming the active form, heat is generated. And where this decomposition takes place with rapidity, it displays itself under the form of fire, light as well as heat; while the oxygen forms a new compound, according to the nature of the substance upon which it acts, or rather to which it unites. That combustion is nothing more than a change produced in any body that is combustible, by its union with oxygen, is proved from the natural decomposition of pyrites when exposed to the air, the product of which is the same as that which is obtained by the burning of sulphur. Phosphorus exposed to the air yields the same acid as if it were burnt; and many mixtures have the property of taking fire spontaneously.—In *putrefaction*, oxygen unites with the different elements that compose either animal or vegetable matter, the produce of which is various, gasses, &c. and heat in some cases; as in sea-fish, light as well as heat is produced.

In *respiration* the oxygen is received into the lungs, where it unites with the carbon of the blood, and forms the carbonic acid; the caloric which is set at liberty, is, by the means of circulation, diffused over the whole system: if animal heat is generated in the manner here supposed, it follows, that the heat in the lungs should be greater than in the more remote parts of the body; that it is so, is proved by the experiments of *John Hunter*, who has shown that the heat of animals is less in the remote parts of the body, than it is near the centre of motion (the heart.) Here he proved the fact, but missed the application, attributing that to the action of the heart, which is owing to a chemical process carried on in the lungs.

Answers are also given by Messrs. *Cairns, Horn, Robinson, and Rowe*.

ÆNIGMATOLOGY.

ANSWERS to the last year's ÆNIGMAS.

- | | |
|---------------------|-------------------|
| 1. Ink. | 9. Memory. |
| 2. A Lyar. | 10. A Blacksmith. |
| 3. Time. | 11. A Gig. |
| 4. Jonah. | 12. Fancy. |
| 5. A Walking Stick. | 13. Sleep. |
| 6. A Rope. | 14. Zeal. |
| 7. A Sigh. | 15. Conscience. |
| 8. A Semi-breve. | Pr. The Bible. |

Rebus. 1. Madam. 2. A Nightcap. 3. A Larkspur. 4. A Sexton. 5. A Target. 6. Pastime. 7. A Reed. 8. Friendship. 9. Mabel. 10. A Ramrod.

GENERAL ANSWERS.

1. Advice. By Mr. JOHN FILDES, Schoolmaster, in Liverpool.

When you sit down with pen and ink to write, Æ. 1.
 Keep free from lies each line that you indite; 2.
 Your name will then thro' time perhaps be seen, 3.
 As long as Jonab's has already been. 4.
 Stick fast to honesty, to truth attend, 5.
 Or by a rope you else your life may end. 6.
 Sigh not for riches, titles never mind, 7.
 Which like sweet music's notes are only wind. 8.
 Fresh in your memory good precepts keep, 9.
 And heed not Gretna's smith, who oft can't sleep, 10. 13.
 His thoughts so much on pairs in gigs are bent, 11.
 So shall your fancy something still present 12.
 That with its fond attraction will delight, 14.
 And make you zealous to do what is right; 15.
 To act with prudence, keep your conscience clear Pr.
 From sin, and ever hold your bible dear. Pr.
 Think not the courtly madam is more blest, Reb. 1.
 Than is the village maid in night-cap drest; 2.
 For both, ere long, will like a larkspur fade, 3.
 And by some sexton in the ground be laid. 4.
 No target strong can you from death defend, 5.
 So your short life in pastime do not spend. 6.
 But, since it is by GOD above decreed, 7.
 The grave must all your friendship soon succeed. 8.
 Prepare for death, as Mabel did of yore, 9.
 And you'll be blest when ramrods are no more. 10.

2. The slanderous treason-writer. A probability. By Mr. J. WYRILL.

Whoe'er with ink will slander propagate, 1. 2.
 In time may meet with worse than Jonab's fate; 3. 4.
 He staffless and suspended by a rope, 5. 6.
 May sigh bereft of every earthly hope. 7.
 What doleful notes must haunt his memory 8. 9.
 When blacksmith's fetters forc'd to wear is he! 10.
 Whirl'd like a gig, his fancy in despair, 11. 12.
 The sleep of blest content he ne'er must share, 13.
 Mistaken zeal his conscience loud will blame, 14. 15.
 Who from his bible can no comfort claim; Pr.
 His flauating madam now will him despise, Reb. 1.
 A night-cap or a larkspur more will prize; 2. 3.
 The sexton, with a heart hard as a stone, 4.
 Or iron target, gets him for his own, 5. 6.
 And thinks it noble pastime; then with speed 7.
 Digs him his hole, and joyous tunes his reed. 8. 9.
 O! how unlike that friendship Mabel shares! 10. 11.
 Whose peaceful mind nor war nor ramrod tears; 12. 13.
 Who in religions flow'ry paths is blest, 14. 15.
 While stand'rous traitors never can find rest. 16.

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3. Serious thoughts. By his friend A. F. of Hull. Communicated by Mr. Wyrill.

Tho' the poor negro's skin resembles ink,	1 ^o
Yet cease your slander, gents, nor vainly think	2 ^o
That the great GOD, who life and reason gave,	
Will not in time redeem the captive slave.	3 ^o
He call'd to Pharaoh . . . Set my people free . . .	
And plung'd rebellious <i>Jonab</i> in the sea.	4 ^o
To whose relief no staff or rope was given,	5. 6.
And yet his sighs melodious enter'd heaven.	7. 8.
Keen memory, as an avoirl, shook his soul,	9. 10.
Whirl'd o'er his head tremendous billows roll:	11.
In dear abyss submers'd and far from day,	
His heart was melted and he learn'd to pray;	12.
His sleepless zeal th' Almighty pitying saw,	13. 14.
And wide leviathan expands his jaw	
The prophet to disgorge:—On earth he lies	
Whose conscience found religion was the prize.	15. Pr.
But let us change this serious scene to where,	
When <i>Madam</i> quits her night-cap, to appear	1. 2.
Blithe as a lark, behold the sexton near!	3. 4.
No target now can shield her from death's pow'r,	5.
Nor pastime vain avert this dreadful hour;	6.
For pleasure's broken reed is sure to fail,	7.
And flatterers' friendship prove of no avail.	8.
Then, my dear <i>Mabel</i> , may it be our care,	9.
To find a friend where ramrods never are.	10.

4. The Traitor. By Mr. JOSEPH BARNES, of Haltcliff.

O! what a scandalous wretch am I!	At school I had no zeal to learn,
Thus in a dungeon sobbing!	But by the rod was chided,
No daylight cheers my drowsy eye,	Tho' <i>Jonab Smith</i> bade me discern,
My heart with sighs is throbbing.	And be by virtue guided.
No notes of musick strike the ear,	But, when I came to chuse a trade,
While at my fate repining,	Was full of gigs unfitting,
Nor banquets of luxurious cheer,	I was by vice a captive made,
On bread and water dining.	All horrid crimes committing.
My memory does on hideous things,	For which the judge I thought to
Imagination cloying,	Into my conduct prying, [blink,
And conscience black as ink me stings,	Will doom me to a rope I think.
All rest and peace destroying.	Be warn'd to see me dying.

5. On Invasion. By Mr. W. TATE, of Stranton, near Hartlepool, Durham.

With croaking throat and inkey chin,	Their camp-sticks, ropes and guns
The <i>Jacobins</i> of Gallia grin,	were ready. [greedy,
And threaten to invade,	And they, voracious wolves, were
But Time will teach them otherwise,	To taste our beef and beer.
For, <i>Jonab</i> -like, we will chastise	But, oh! the change! they sigh, they
Them, if th' attempt be made.	grieve,
It was just at the time, it seems,	With face pale as a semibreve,
When <i>Duncan</i> dous'd the Dutch-	To hear the Dutch are beat.
men's gleams,	Perhaps their memory may revive,
They purpos'd to come here.	That <i>Sidney Smith</i> is still alive,

And still may them defeat.
So in my *gig* I'll drive away,
Nor fancy I shall see the day
The Genius of our land
Will fond of slumber be or sleep,
While zealously he ought to keep
Watch with uplifted hand.

6. The Address to Madam. By Mr. G. BRENTNALL, of Normanton upon Soar.

Thus *Jenab Smith* to Madam gay
For *passime* wrote. Excuse I pray
The awful tale, I have to tell
Before the *Sexton* tolls the bell
For you. I'd have you *timely* wife,
And use not pen and ink in lies.
To *Mabel* be your *friendship* true,
Should she in *nightcap* visit you.
Let *conscience* guide you day and night,
Be your *zeal* for *religion* right;
That no sad *sighs* may heave your
breast,
No fearful *fancies* break your rest:
With *stuff* in hand your garden view

7. To him that must understand it.

Lo! when acquaintance first with
us began, [friend,
I fondly deem'd thee as a faithful
Adownright sensible and honest man,
But full of contradiction proves
the end. [thy tongue
To think the scandal that employs
Against me now, and that without
a cause, [wrong?
Say, have I ever done thee any
Say, have I violated *friendship's* law's?
How long shall prejudice o'er
conscience rule? [sense call'd?
How long shall sense by thee be non-
Or a true serious man be deem'd a
fool, [gall'd:
And *time's* pure blessings be by envy
When *Jenab* walk'd the streets of
Nineveh, [seer believ'd,
And preach'd repentance, they the
They who long *grop'd* in ignorance
we see, [ceiv'd.
The awful warning humbly soon re-
E'en so would I in continue *sighs*
confess
Each fault if actually I'd done smiss,

St. Vincent, Duncan, and Bridport,
Will frustrate every French effort,
And cripple them at sea;
While *Bible* truths shall grace our
isle, [smile,
And *Conscience* make all good men
A happy people we!

Of *larkspurs* delicate in hue.
But think no place safe here below,
The wicked sorrow deep must know:
Ordireful war, where thousands slain,
Are by sore implements, a train
Of *ramrods*, *targets*, worse you see -
Than *ropes* or drowning in the *Dee*,
Yet trifling *gigs* these to that woe,
The wicked all must undergo.
So cautious be what paths you tread,
Else tho' alive you're worse than
dead. [hear,
But if you're wise such *notes* you'll
With which no *music* can compare.

By Mr. JOHN SAVAGE, Greens Norton.

Before the lark's sweet *notes* again
address [peace.
Another morn I'd sue for rest and
But, as my *memory* recollects no
faults, [blacksmith hue?
Why should I cringe to looks of
The *gig* of woeful spite me now
assaults [and true.
From him I fancy'd faithful, kind,
Is it because *Myrilla* I revere,
Whose prudent *zeal* and wisdom fire
my soul, [seer,
To lasting love and union all sin-
In whom the *bible's* sacred laws con-
trol [safety,
Each passion that to *mid* ning rage
Deforming beauty more than *night-*
cap far? [Belies,
To walk in virtue's path the more
Than to ascend proud honour's gilt-
ed car. [rested,
When on thy former kindness I
As by a *target* stopp'd amaz'd I stand,
Nor could I think such *Sexton* dis-
respect [hand.
I ever should experience from thine
Had

Had fortune smil'd on me with
glittering tra^{ce},
Fair as a *larkspur* and as fading too,
Then wouldst thou look on me with-
out disdain, [to do.
As in *time past* thou hast been us'd
Thus Job, when sore oppress'd with
pain and grief,
Was treated with reviling by his
[friends,
How often seen when most we need
relief, [ends.
Pretended *friendship* thus ungrateful
Yet since Myrtilla don't my suit deny,
I'll true as Abel was to Thirze prove
(As Gessner sweetly tells) and ever fly,
As guns and rods from interested love.

8. The Good Man. By Mr. W. SPENCER, of Sapcote.

Who can with pencil, pen and
ink, describe [gion flow,
The pleasures that from true reli-
Pleasures unknown to all the *lying*
tribe, [woe?
Who daily wander on the verge of
Eye that just man, who, *Jonab-*
like, is fir'd [cause;
With holy *zeal* for this most noble
Who worships God, and, with his
inspir'd, [applause.
Demands attention while he gains
His *bible* of companions is the best,
He reads of *Adam* and of *Abel* too,
No *fig* at night disturbs his peace-
ful rest, [his due.
For calm content and *friendship* are

Lover of peace, he stifles false a-
larms, [son's call;
Nor dreads to hear the tolling *sex-*
Rope, *ramrod*, *gig*, or *target*, may
have charms, [pleas'd at all.
But with such baubles he's not
With *stick* in hand, a pleasant walk
he takes [larkspurs grow,
Near purling rills where *reeds* and
Or with the *smith* echoing *notes* he
makes [blessings flow.
In praising God, from whom all
Such is the man, whose precious
time is spent [his guard,
In doing good, whose *conscience* is
Desirous to improve the talents lent;
Such virtue never fails of its reward.

9. The Ant and Fly. A fable. By Mr. WM. WATKINS, of Wylam, Northumberland.

The ant and fly the other day,
Sporting in the solar ray,
Each with equal warmth of blood,
Argue which the highest stood.
It is well known, says the fly,
My pretensions are most high,
As there is no sacrifice
Offer'd, but I claim a slice.
The blackest *ink*, the fleetest *gig*,
Things of *note*, nay *Jonab's* wig,
Stuffs the smoothest *time* can make,
All I fancy at the wake
Subservient to my *zeal* and will
Are all; I ride and sip my fill.
To sacred *bibles* I resort,
And when I please I *sleep* at court.
Not a maid of honour there
But my *memory* holds dear,
And *consciously* about her I
Feast upon the heartfelt *fig*.

Thus I live and never work,
Whilst you labour like a Turk.
The Ant hard-by compos'd fat,
List'ning to her foolish chat.
Madam, cry'd, as I'm a *finner*,
I would scorn to taste a dinner;
And when did you in any nation,
E'er receive an invitation?
Conscience says, I must forbear
To take another's fav'rite cheer.
You sometimes on *ropes* will dance,
And made fast are by mischance;
While, by reason warn'd, I gather
Still my food in summer weather,
Fill my barns with ample store,
To drive hunger from the door.
Hard as a *smith* I all day long
Work —, to make my castle strong,
Lest, on bad weather coming, I
Perish like a silly fly.

10. Reflections. By Mr. DAVID ROBERTS, of St. Columb.

Receptacle of all the grave, [slave,
The monarch and the *rope-bound*
Ought to remember thee;
The *inky* black, and *noted* tongue
That deals in *falsity* and wrong,
Here waits the last decree.

O youth, consider well your ways,
Sigh not altho' you looke the bays
That poets' temples grace;
Let *Conscience* be in time your eye,
Walk in her paths and vice defy,
In peace so end your race.

Let *Virtue's zeal* be your employ,
While here her charms the good en-
joy,

The wicked only hate.

The *bible* shews the ruling guide,
That made old *Jonab* safely ride,
With billows o'er his pate.

11. The poor Poet. A true tale.
Midshipman on board

Those that the *muses* aid implore,
'Tis said, are oft distressed and poor;
And, be the assertion false or true,
I'll not dispute the point with you.

Near *reeds* and *larkspurs* on a hill
There dwelt a man, tenant at will,
Who *gigs* and *flutes* could none at-
tain,

For a poor wife and children twain.
To labour was his daily care,
His meals were coarse, his coat
threadbare.

For, with his *ink-stand* by him ever,
Deep drank he the *Permessus river*.
For, tho' his work required speed,
He fancy'd line would write or read,
Tho' *blacksmith* like he'd only scraps,
Nor purchase cou'd dear books and
maps,

But still the *Diaries* every year
He bought, ere things became so
dear.

His pittance small wou'd not supply
With food and fire his family:
The legislature laws had made.
That spoil'd his most accusom'd
trade: [lout,

His wife now rail'd, and said, you
Go beat the neighbouring towns a-
bout,

And, tho' your proper trade be scant,
You work must, or we die for want.
With that, this frowning *madam*
pert

A waistcoat, *night-cap*, and a shirt
Or two, ty'd up, bid him begone:
His child cries, what's my father
done,

When summon'd from this earthly
sphere,

You'll glorious with the just appear;
Vice with gigantic face,
Is the fell *smith*, whose deadly darts
So pierce each mortal's vital parts,
Ere he can end his race.

God grant repentance on us wait,
Ere ends this transitory state!

Prepar'd for his right hand,
We'll see the grave without a tear,
The grisly king meet without fear,
And hail the promis'd land.

By Mr. JOHN CARWITHEN, late
the Royal William.

That you should drive him to de-
spair?

With him I'll go, his fortune share.
Alas! my boy, you cannot go,
The weather's cold, the bleak winds
blow,

No bed have I whereon to sleep,
You stay must and your sister keep,
While mother work will at her
wheel:

Farewell, alas! what do I feel!
Reluctant, from my humble home,
About in quest of work I roam.
Yet peace of mind and conscience clear
He yet retained, and banish'd fear:
And going on near Gosport town,
Hard by the *Feathers* sat him down.
A press-gang passing him accost,
What ship my boy? you look like
lost,

Another said, 'tis *sexton Tom*,
Who lately ran the *Friendship* from.
He rais'd his eyes, but nothing said.
Come, prophet *Jonab*, to Spithead:
But ere we're got to Gosport beach,
Bomb shells and balls will find your
speech.

This said, they drag him to the boat,
And bid mind the after-thought.
He knew not what but bow'd assent,
And so towards Spithead they went.
South south west wind, and a lee
tide,

Not soon the boat got a long-side
The Royal William guardship, then
Appointed to receive press'd men.
The sidemen call'd; a rope was slung,
Which

Which hapless o'er his body hung
The surf soon pluck'd him o'er the
side :

Send off the boat, the fidesmen cry'd,
We'll haul on board this lubber oaf,
While those upon the deck all laugh,
To see him haul'd up from the flood,
He dripping on the gunway stood,

Not knowing to go fore or aft ;
But they suspected this was craft,
And to the sentry call'd in haste,
Whose ramrod push'd him to the
waist, [year,
Where I shall leave him till next
That he may learn to reef and
steer.

12. On Conscience. By Mr. ROBT. HENDY, jun. of Andover.

A guilty conscience to accuse
None need be hasty to begin,
Yet, to *Jonah*-like, we still refuse
To hear the counsellor within.

It speaks loud to the *liar's* mind ;
And those that *fancy* pleasure too,
If deaf to conscience, surely find
What *boly writ* declares is true.

With *zealous Smith* attention pay,
Let wise instruction warm the heart,
That *time of sleep* enjoy you may,
Nor gigs nor brewes cause *figh* or start.
May I be fill'd with heav'nly love,
Ne'er feed where noxious herbs still

grow,
But eat the manna from above,
And living water *drink* below.
Honour, delusive charm, invites
Ambitious minds to *figh* for gold ;
My *memory* it far more delights
Creation's beauties to behold.

With tinsel cord the gilded cane
Adds little worth to hand or head,
But shews how empty 'tis and vain,
Unless in *Virtue's* paths we tread.
The fowler trips the verdant plain,
And *rams* his piece in hopes of game,
But unsuccessful come again,
When, *flashing*, he has mis'd his
aim. [reed,

Tho' sweet the youth may tune his
The hero's shield himself defend,
And him that helps in *time* of need,
I count must for a faithful friend.
For *Madam Mabel's* rich array,
With caplike larkspurs in full bloom,
She's but, like others, living clay,
And soon must hid be in the tomb.
Sad *pastime* is the *sexton's* knell,
And terrifies the standers-by :
Not so, if conscience says all's well,
Seraphs will bear us to the sky.

ANSWERS to the PRIZE-ÆNIGMA, REBUSES, &c.

1. By Mr. ROBINSON, of Bowes.

Hail, Robarts, *boly bible's* bard !
Teach me thy warmth to share,

That in my breast I may have rest,
And feel *Religion* there.

2. A Sonnet to Religion. By Mr. JOHN BROWNE, of Huntingdon.

Hail, pure *religion* ! sweetest love-
reign balm ! [possest,

The choicest good by fallen man
To purge from guilt, to tranquillize
and calm [troubled breast.

The guilty heart, and cheer the
See the benign Disposer of events !
By his all-faithful servants (as to
prove), [intent's,

Transmits his *boly word*, his kind
To teach by precept, and exhort by

love. [fears,
Devotion can divest our soul of
Dispel despair, and vanquish death
and guilt,

Make our hearts pure, and only
turn our cares,

To fit for God the temple he has
built. [sures gleam,

O ! may thy free exhaustless trea-
Thro' all the world with an efful-
gent beam !

3. Sacred to Religion. By Mr. RD. HUMBER, of Brighton.

My harp upon the willow I suspend,
Come, *sacred writ*, thy holy comforts
lend,

And dart upon my mind celestial light,
That I with reverential awe may
write ;

For, when religion tunes the charm
 ing lyre, [fire,] Replete with ev'ry grace, and so be-
 nign, [vine,]
 The solemn subject needs a Gabriel's A mortal can but list, 'tis all di-

4. By Mr. W. CLARK, of Cam's Hall.

'Tis from the *holy scripture* found, | The deepest stab to mortals given
Religion's balm cures every wound; | Is heal'd thro' perfect faith in hea-
 ven.

5. By Mr. A. GLENDENNING.

Can repentance avail, | Reason leaves us dismay'd,
 Wounded consciences heal, | But *Religion* brings a id,
 Sin's consequent issues prevent? | On this errand our Saviour was sent.

6. By Mr. ROBERT HENDY, jun. of Andover.

Hail, sacred page, the fund of truth, | Without distinction all may prove
 Instructing age, and guiding youth, | How sweet the peace that flows from
 Precepts divine in bright display, | love,
 Wisdom invites; let all obey: | Enjoying realms of bliss above.

7. The Rebus. By Mr. W. CLARK.

Madam Mabel and I t'other day | I told her I thought I had some of
 took a jaunt | them solv'd;
 Together for *passime* to visit an aunt; | But to name the remainder she
 In *friendship* conversing on matter | seem'd quite resolv'd.
 not common, [a woman, | "There is *larkspur*, a *sexton*, and
 I admir'd much to find her so clever | *target*, you'll find;
 In converse she ask'd if I'd guess'd | *Reed*, *ramrod*, and *night-cap*, are still
 the charades [by the blades, | left behind."
 In the Gentleman's Diary compos'd

8. On Friendship. By AROMATIS, junior.

Tune the *reed* and string the lyre, | Down his cheek perhaps ne'er stole
Friendship's charms my soul inspire, | Thy sacred tear . . ah! callous soul!
 Tell me, sweetest joy below, | And far thou'rt fled from war's
 In what soil thou deign'it to grow: | dread reign.
 In *Madam Larkspur* art thou found. | *Targets* and *ramrods* are not seen
 Whose bounty reaches all around? | With thy meek form, celestial fair,
 The poor by her are daily fed, | No such emblems thou wilt wear.
 Her *passime* is to give them bread. | He is blest that gains a friend,
 Yon *sexton*, tho' his head be grey, | Who his aid will always lend,
 Whistling in his *night-cap* gay, | He may then all cares defy,
 Peaceful live and *blamolesi* die.

New ÆNIGMAS to be answered next YEAR.

I. ÆNIGMA 626. By INDIGENA.

Dear Gents, I upon you attend, | And tho' I ascend to the skies,
 Am with you wherever you go; | On the hills and the valleys I've
 A constant yet changeable friend, | birth.
 Without me ye nothing can do. | Unseen thro' the city I go,
 More light than a feather I rise, | At concerts my powers display,
 Yet closely adhere to the earth, | I sometimes am solemn and slow,
 | At others am chearful and gay.

I'm seen in the belle debonaire,
And often discover the beau;
At present, in form militaire,
Am thought to be quite apropos.

On bleak Calædonian plains
You'll find the dimensions of me.
And yet a small compass contains
My boundaries, fix'd by the sea.

2. ÆNIGMA 627. By Mr. G. BRETNALL.

Pray, what is that most people dread?
Yet women old wear on their head,
Not quite so white as snow;
Is dead, and so has ever been,
Yet lives and stirs, as oft is seen,
Can either come or go.

Poor mortal men are made to fear,
Whene'er they apprehend it near,
And yet it has its charms.
But when they find it very nigh,
With utmost speed some from it fly,
While others trust their arms.

3. ÆNIGMA 628. By Mr. W. CLARK, Cams-hall, near Fareham.

A humble slave in Diary's page,
Right useful in his station,
Pleas'd to admit among the sage,
Well known throughout the nation.
Assisting commerce in what gains
Just balances require,
And, tho' he's oft hung up in chains,
Ten Thousand—before fire.
In him are trespassers confin'd,
Till retribution's made.

His various uses to mankind
Essential are to trade,
In town and country, every where,
He's held in much repute;
Tho' he, alas! with some appear
Their *dernier*, and turn'd out.
But useful still, and worth your care,
On this you may depend,
The more you have, the better fare;
Then make much of a friend.

4. ÆNIGMA 629. By the Rev. SAM. OLIVER.

I'm a regular blade
To look after trade,
An impudent front too I carry.
Like a watchman, I'm found
To keep my own round;
But, from truth if I happen to vary
It brings sad disaster
To me:—tho' my master
Is noble, great, gracious, and glorious.
And, now my hand's in,
I hope 'tis no sin [victorious.
To wish *GEORGE* o'er his foes still

My philosopher's staff
Would make you all laugh,
Were you but to hear it abus'd;
When you see it, you'll know,
Wherever I go, [us'd.
Who I am, tho' my staff's not mis-
I do, this my trust is,
No more than fair justice,
Yet prejudice runs so uncivil,
If a prize I should seize,
Some people will please
To wish me and my staff at the devil.

5. ÆNIGMA 630. By INDIGENA.

No stranger am I, but am very well
known
In every village, and every town;
At church you my pious intention
behold, [clothing of gold
Where I often appear in bright
Am mostly domestic, nor much in
the field, [lingly yield.
Tho' my back to the burthen I wil-
And belie, beau, or peasant, will sel-
dom complain, [again
Their assistance to lend, to unload me
Yet I in the kitchen am useful, tri-
said, [up her bread
To Dolly the cook, when she makes

I may be employ'd at the death of the
poet, [Haps
Give name to a bay at the *Cape of Good*
Yet I in an ale-house, to hard-smylet,
am compell'd to attend on a stupidity'd
for.
The prep of his joy, and his pleasure's
support, [my final report.
Tho' he sometimes looks grave at
Metamorphos'd—to hind, me you need
but to look
At the end or beginning of every look.
The times of eclipses are found out
from me, [tide of the sea,
With the ebb and the flow of the

6. ÆNIGMA 631. By Mr. J. SAVAGE.

Come, fair *Erato*, touch the lyre:
A beauty sets my soul on fire,
Whose grace, and captivating charms.
The cold with love's sweet passion

warms.
She comes, in lucid vestments seen,
Fair as the South's illustrious queen.
When she her splendid robes put on,
To grace the court of Solomon.

Eclips'd would Solomon be too,
For she's more glorious far to view.
No more let story boast the parts
Of Music, with her magic arts;
Altho' thro' her harmonious lay,
E'en things inanimate obey.
For more astonishing, by far,
The things by her performed are.

She like some fair enchantress
stands, [mands.

Endow'd with power, she all com-
Tea thousand votaries come forth,
To sing and celebrate her worth.

The forests too, at her decree,
To dance upon the mountains, see;
While ev'ry wood and leafy grove,
Obedient in her presence, move.

To bless the nations, she appears;
Gloom banishes, faint hearts she
chears;

With power, that can to life renew
Thousands her predecessors flew.

Youth in select bands combine,
To spend their vigils at her shrine.

One memorable tribute see
Of splendid pomp and luxury!

Soon as Aurora, newly born,
Awakes the harbinger of morn,

Ere Sol the mountains tips with gold,
Or Damon's care forsake the fold,

See throngs adorn the fertile plains,
All joining in melodious strains,

In concert sing her praises round,
Till distant echoes catch the sound.

She gives their airy fancy wing,
Inspires them whilst they sweetly

sing, [dances,
On leads them to the sprightly
And all their rapturous joys enhances.

Should contemplation bid you stray,
To taste the sweets of parting day,

Her namefake in some vale you find,
Esteem'd a blessing to mankind.

7. ÆNIGMA 632. By Mr. W. M. WATKINS, Wylam-engine.

Let every heart abound with joy,
My presence can each care destroy,

And sometimes banish sorrow;
And tho' in mystic robes array'd,

My ensigns oft the village maid
Will deign of me to borrow.

Stand back; or fear the horrid strife:
See criminals gasping for life

Beneath my very nod.
With prong or dart I cut the thread,

And tho' to die all are decreed,
I send no soul to God!

In palace, hall, or humble cot,
By Providence assign'd my lot,

And carnage marks my way.
But, hark! the pious and learned sage

At times give sanction to my rage;
And thousands for me pray.

To Adam and to mother Eve,
Mind, this I speak not to deceive,

I very well was known;
In truth, without a tribe or see,

Each of them personated me,
And that you all will own.

Hark! hark! alas, what dismal yells
Of innocents!—sad pain compels,

And tortures never cease. [dead,
Strew'd round with dying and the

No giant's den can cause more dread,
Nor war's fierce rage increase.

Not that on land I always 'bide,
But often on the swelling tide

I brave the jarring waves.
Each honest ear (tho' dy'd with fool)

Will strive to know what I'm about,
From me his portion craves.

But hold, for fear I almost tremble,
'Tis said old Nick I much resemble,

My works are all so base.
I maim, I kill, I hang, I drown,

I stay alive, all this I own,
Yet never tear disgrace. [sing,

Such actions would my conscience
And condemnation on me bring,

And all my trophies blast;
But, thro' repentance, know that I

Look for permission to the sky,
And heaven to gain at last.

8. ÆNIGMA 633. By Mr. ROBINSON, of Bowes.

My parent dwelt upon the lowly green,	[scene;	One leg I have, a belly, and a back.
And fertile nature beauty'd the		A monstrous head I've got, but
Where all thy sweets, imperial Flora,		ne'er a tongue;
reign,	[grain,	Four hands at least besides to me be-
And pleasant breezes fan the waving		I am, in brief, a creature deaf and
Near the mead'ring rivulet's smooth		blind,
side,	[numbers glide.	{behind
Whose gentle murmurs in sweet		And one of my four hands is plac'd
Till on her vengeance keen its vigour		When sable darkness veils the deadly
pour'd,	[deflow'rd,	night,
Her body mangled, and her charms		[spright,
I, phoenix-like, as travellers relate,		To your surprize, like demon or a
Owe my existence to my parent's fate.		I toils. I rarely talk, yet sometimes
When form'd and fashion'd I'm of		sing.
feature low,	[shew.	[and seen.
My num'rous ribs without a skin I		Tho' far I walk not, frequent heard
Two feet I've got, but then of arms		Diarian bards, now, lest this tale sur-
I've lack;		prize,
		[guise.
		This nightly monster's only in dis-
		The mask remov'd, perhaps your
		charming lover
		[cover.
		Or genuine picture, you'll in me dis-

9. ÆNIGMA 634. By Mr. JUNIUS BARREN, of London.

Low in the bosom of yon vale,	Not always in the woody vale,
Where trees protect from winter's	For oft I tell my artful tale
The alehouse shews its sign. [gale,	Within the statesman's coach,
There, while the merry tale goes	Bid him to catch or shun the shade
round,	Of pleasure, fascinating maid!
Amid the rustic ring I'm found,	Or haughty power's approach.
'Tis to amuse them mine.	At merchant's loaded desk I vex,
If with the clown I'm forc'd to fit,	For dull corroding cares perplex
To shew my knowledge or my wit,	His avaricious mind.
Then I'll not condescend;	At his right hand I oft appear,
Should the exciseman take his place,	And whispering fortune in his ear,
While the smile's glowing on each	Thus I attention find.
By all I'm own'd a friend. [face,	But tho' to day with fortune bless'd,
For oft, with tales of mirth or woe,	By lords or rustics thus carest,
I bid the crowding passions glow,	So fet by is my name,
Such is my magic power;	To-morrow I neglected lay;
The rosy dimpled smile appears,	So, like the favourite of a day,
And sweet compassion melts in tears,	Soon flies my fleeting fame.
Within the fleeting hour.	

10. ÆNIGMA 635. By Mr. W. W. of Crowle.

I am, good sir, but never, madam,	I am a sweep with sooty face.
Not quite so old as father Adam.	I am a rector, curate, vicar,
But I was born before old Parr,	Am a merchant, sell strong liquor.
Am still alive, so older far.	I am a bishop, wear a gown,
I have by you been often seen,	I am my lord, I am a clown,
And am well known to Britain's	I am a cobbler, am a king,
In camp and city I am found, [queen.	I am a cobbler, am a king,
And in the country I abound.	In short I'm almost any thing.
I am a tinker, am a tailor,	I by the law am made and ty'd,
I am a foldier, am a sailor.	And often taken for a guide.
I am a captain in gold lace,	I may be master, may be not,
	To be a slave is oft my lot;

And,

And, mushroom like, I quickly grow
Up to maturity, you know.

Good names I from the ladies
steal,

So I, you'll say, in scandal deal.

By that surmise on me is railing,

For I oft hide the woman's failing.

If e'er I wed, it is for life,

For I cannot survive my wife.

That's odd, you'll say,—nay, not
at all;

For, when pale death shall on her
I'm then no more when she is gone,

Tho' still I'm seen the self same one;

Still go abroad, still take the air,

And often take another fair.

Now, what I am be pleas'd to tell,

I'm sure ye know me very well.

II. ÆNIGMA 636. By Mr. R. HUMBER, of Brighton.

Ye hallow'd Nine, attune the lyre,

Come aid, with your poetic fire,

My various natures, while I sing

From what, and where, and whence

The era of my birth is dated [I spring,

Ere beast or reptile was created,

Ere Adam breath'd the fragrant air,

Or Eve put up her ev'ning prayer.

Dragg'd from the entrails of the

To cruelty I owe my birth. [earth,

With fire and blows they me abuse,

At length pronounce me fit for use.

In parliament, tho' far less stout

My nature, yet I'm oft turn'd out.

Nay, I relentless hie to jail

The man that cannot find a bail,

That tradesmen may not suffer loss.

I, like a papist, wear a cross.—

If I'm not found, the culprit's free,

And need not cross the ruffled sea.

In days of yore, as records tell,

Amazing numbers by me fell.

In other sense, with airy flight,

I soar beyond the shepherd's sight.

The music of the grove I share,

Each dulcet note proclaims me there,

With warblers on the blooming spray,

Who could not sing were I away.

My last sense is, from me you may

Be certain what you have to pay.

12. ÆNIGMA 637. By Mr. J. BROWNE, of Huntingdon.

Avaunt, ye great, your boast, your

grandeur, pomp, and pride;

These trifles all are lost, great odds

are on my side.

Tho' you in loftier state think me

beneath your care,

On me depend the great. I shine in

humbler sphere.

As larks salute the day, and crims for

eyes the East, [calls to rest.

I o'er the uplands stray, till evening

But for me, one wide waste would

spread yon fertile ground,

Commerce and trade disgrac'd, and

want appear around.

Perhaps you'll call me knave, but

that I shall disown, [my own.

For I enjoyment have on what is not

I dwell on rural plains, where chear-

ful peasants toil,

Where peace and plenty reign, and

blest the fruitful soil.

While pleasures so complete, and

unremitting flow,

I envy not the great their grandeur,

pomp, and show.

13. ÆNIGMA 638. By Mr. A. GLENDENNING.

O, vincam ante tuos sedeam captiva penates! Propert. lib. iv.

Friendly to the sylvan Muse,

See yon boughs a shade diffuse;

Rolls rough gurgle thro' the glade;

Hasten to the cooling shade.

There, sequester'd from the throng,

Listen to the black bird's song;

There, in me, muse out the day.

Next the glowing orbs survey.

Wraught in some angelic thought,

Praise your Maker as you ought.

Read, with keen creative eye,

All the wonders of the sky.

Freed from yon loquacious crowd,

Pensive walk beneath the shroud;

Aw'd, approach my habitat on,

Dear to holy contemplation.

Lovely *Alliamont* retires,

Joins with my querimonious choirs,

Oft invokes the powers above,

To restore her absent love;

And

And bemoans the rueful day
Which took *Paridel* away.
Charming fair, that theme forego,
Then I'll mitigate thy woe;
Bid thy graces be unfurl'd,
Send thee back to grace the world.
Pleasing spells to me belong,
Finspire the tuneful song;
Wisdom woos you all to me,
Taste of true felicity!
Why your faculties destroy,
In deluding streams of joy?
Where Destruction's imps await,
With the ministers of fate!
Rather pierce the silent grove,
Nature's with gay foilage wove,
There (remote from empty noise,

Giddy riot, bustling joys,
Gentle passions sooth the breast.
You are there obscurely blest.
"Who'd but cast his pomp away,
For my staff and amice grey?
Who'd but wish his holy lot
In Oblivion's humble grove?"
In these shady groves and bow'rs,
Peace and harmony are yours;
Yet the blessings you enjoy,
When abus'd will surely cloy.
Whence, observe the golden mean,
Since the mind endears the scene.
Thomson's smooth instructive lay,
Deign'd my beauties to display.
Candidates for Thomson's fame,
Hence reveal my pleasing name.

14. ÆNIGMA 639. By AROMATIS, Junior.

'Ere the Eternal Wisdom fram'd
this world, [hurld,
And chaos into form and motion
When night's dark veil extended
o'er the plain,
Great was my pow'r, I held my spaci-
ous reign,
'Till the Almighty gave the great
command, [hand,
Let there be lights—obedient to his
Atoms and systems into order flew,
And I confounded bid a long adieu.
Far I retir'd to some sequestered cell,
And with the pious hermit there I
dwell.
He by my aid can trace great Nature's
plan, [man.
And vindicate the ways of God to
See yonder crew of bacchanalian
foes, [pipes and pots;
Wasting their health and time in
My presence seldom is where they
resort, [court.
I flee the city and the crowded
Folly and riot equally I shun,
Yet fools without me oft would be
undone.
I greatly lessen matrimonial strife,
And useful sound am in a single life.
Go ask the sage, who studies Nature's
laws,
And in each object views the sove-
reign cause,

Whose mind's aloft in contempla-
tion flown, [are known.
To him my usefulness and worth
When youthful Strephon tells his
artless tale, [vale,
With tears and sighs, to Delia of the
Alternate hope and fear pervade
her frame, [same.
Her bosom throbs as she surveys the
And, when each thought with me
she well has weigh'd, [vey'd.
In methelblisful news to him's con-
Cupid, the god of love, my worth
knew well,
For, on a time, as ancient records tell,
A rose he gave, the first that e'er
was born, [morn;
Fragrant and beauteous as a summer's
That I engag'd to him should firmly
stand, [hand.
Nor e'er betray him to his mother's
And from that time this faithful
lovely flower [bower,
Has oft been plac'd in many a shady
Where for diversion meet the youth-
ful train, [reign,
And 'tis an emblem of my peaceful
"Under the rose" no envious whif-
per vents [dear gents.
Its rage. Adieu—and say my name
By me, howe'er, you'll ne'er to fame
be rais'd, [be rais'd.
Tho' you by all mankind ought to

15. ÆNIGMA 640. By Mr. J. WYRILL.

Diarian bards, far fam'd for mystic
lore,
Who hidden meanings can with ease
explore,
In flowing verse shew forth my won-
d'rous fame,
And raise from darkness my obli-
vious name.
Long ere th' Almighty form'd this
earthly ball.
And fair creation did from chaos call,
I boast my sway; as empress rul'd
alone, [throne.
But now a brother shares an equal
In him resplendent glories you may
see; [me.
The same, tho' less, you often find in
And tho' we on each other must
depend, [friend.
A lternately we prove both foe and
H ow can it be? Why, fate will have
it so; [other's foe.
Tho' friends to you, we prove each
Extinct my way, and of me no remain.

PRIZE ÆNIGMA. By Mr. WM. SPENCER, of Sapcote.

When Phœbus, drooping, sinks into the West,
And drops a signal for the world to rest;
With steady pace the rustic leaves his care,
And homeward trudges to his wholesome fare,
His wife, impatient of unusual stay,
Steps to the door, and meets him in the way.
Her cheerful looks denote her envy'd bliss,
And children run to share a father's kiss;
Whose safe return can each fond hope requite,
And artless questions give the fire delight.

O favour'd man, with such endearments blest
Contented too, and that's worth all the rest,
But now, adieu; and sweet be thy repose,
While thy successor shall his seats disclose.
For, tho' inanimate, the senseless elf
Will condescend to tell his tale himself.

When night appears, and gloomy prospects rise,
And sable clouds o'ercastr the nether skies,
At Nature's call, from my retreat I start,
And, like my predecessor, act my part.
An agent free, I rove from place to place,
A strong temptation to the human race,
And, when mistaken judgement points the way,
The knowing ones are often led astray.
By me deluded, retrograde they go,
And thus fall victims to an open foe.
Unguarded wretches, careless thus to be
Impos'd upon by such a thing as me.

And,

And, if reports say true, 'tis even said,
 I haunt the dreary regions of the dead.
 So queer my motion, that the wisest man,
 With all his skill, may catch me if he can.
 His greatest efforts not retard my flight;
 And, strange to tell, my feats are all at night.
 For, ere Aurora dawns in the morn.
 And Sol's enlivening rays the hills adorn,
 My course is finish'd. Thus, my friend and I
 Alternately our precious time employ.

NEW REBUSES, CHARADES, &c.

I. Rebus. By INDIGENA.

My first, renown'd in classic page,	The lowly meads of Frisia hides.
Thro' Latium's plains meand'ring	Would you the beauties of my whole
glides; [rage,	survey, [Gray.
My next sometimes, with swelling	Read Milton, Thompson, Pope, and

2. By Mr. W. CLARK.

Five letters constitute my name.	What oft a heart sincere retains;
If made too free with, you 're to	But, if you take one more, you'll see
blame;	An emblem of stupidity.
Take one away, there then remains	

3. By Serjeant SIMPKIN.

My first spectators often see	On buildings high, you 'll find it
With culprits, at the fatal tree.	there.
My second 's seen aloft in air;	These two conjoin, and hence explore
	What frequently makes cannons roar.

4. By Mr. J. CAIRNS.

My whole, dear gents, aims only to	Omit another, and what's left will
deceive; [you 'll have.	shew, [to do.
Omit one letter, and much warmth	When hunger-bit, what all men wish

5. By Mr. R. HENDY, jun.

When Strephon woo'd a lovely fair,	And, tail to tail, will make appear
Her answer made the youth despair;	What's seen each day throughout
And, if my rebus you 'd define,	the year.
Her answer twice you must combine;	Direct, reverse, it reads the same.
	Next year, diarians, tell its name.

6. By Mr. J. FIELDS.

When one, who has a wish to wed,	And, when she has her w ^h obtain'd,
Thinks dress will stand her friend,	And is become a wif,
Without a doubt, she oft my first	My whole will shew, if rightly us'd,
Will o'er my second spend.	How fleeting's human life.

7. By Mr. W. CLAVEY, of Bath.

Hail! great discovery, mighty truth!	Hear, how the vain intruder tells
Thou child of genius, fire of youth!	His tale of flimsy knowlege;
Why hast thou long in embryo laid?	Methinks I hear, from envious cells,
Why sleest in darkness' gloomy shade?	Or youth half-taught at college,
Come, now, and deck fair science	Who'd not, as well as he, have found
page;	An English re position,
Come, be the wonder of the age!	Which, to itself in Latin join'd;
	Will shew the composition.

8. By

must be conceived as uniformly spread through an horizontal cylinder whose length $=bC$, and its centre of gravity in the same vertical line Gg with that of the body: and as this is to be supported by the water acting uniformly through the length dC , and by the string in direction Tb , bisect dC in l , then the water dC will act in the same manner at its center of gravity l , as if it were all collected there or supported there by another string parallel to Tb . Conseq. as $bl = w \times \frac{bC^2}{SC^2} : : Bg$: the weight supported by the water in a vertical direction, $: : bl - Bg$: that supported by the string TS . And thus also must quest. 609 be solved.

Thanks are due to Messrs. *Rowe, Walker, Watkins, White, and Wright*, for their ingenious answers.

2. QUEST. 736, answered by Mr. T. WHITE, of Dumfries.

Let the given equation be assumed $=x + \frac{a}{x} + \frac{\beta}{x+1} + \gamma = 0$, then $x^3 + \gamma + 1 \cdot x^2 + a + \beta + \gamma \cdot x + a = 0$, and by equating the coefficients of the homologous terms, we obtain $a = r$, $\gamma = p - 1$, and $\beta = 1 - p + q - r$: and hence the required expression in the Diary. If $x - 1$ be used instead of $x + 1$ the given equation is transformed to $x - \frac{r}{x} + \frac{1 + p + q + r}{x - 1} + p + 1 = 0$. The use of these transformations may be the facility which they afford, for approximating to the roots of adjected equations.

And thus nearly is the answer also given by Messrs. *Cunliffe, Rowe, Walker, Watkins, and Wright*. By way of example it has been tried to find the affirmative root of the equation $x^3 - 15x = 3$, or $x - 1 = \frac{3}{x} - \frac{11}{x+1} = 0$, and the result of a few trials is $x = 3.969333$, which is true to 5 or 6 places.

3. QUEST. 755, answered by Mr. J. WRIGHT, of Norley.

Part 1. Constr. From the given point O in the base AB as a centre, and radius $OC =$ the given line describe a circle; also from O towards A and B respectively, set off OX and OY such, that $2OX \cdot OA = AO^2 + OC^2$, and $2OY \cdot OB = OB^2 + OC^2$; on the diame-



ters AB , XY describe two semicircles AQB , XPY draw OQR perpendicular to AB , cutting the former in Q and making the rectangle $OQ \cdot OR =$ half the given one: draw RP parallel to AB cutting the semicircle XPY in P , demit PD perp. to AB cutting the circle whose centre is O in C ; draw AC , CB ; and ACB is the required triangle.

Demonstr. $AC^2 = OA^2 + OC^2 + 2OD \cdot OA = 2OX \cdot OA + 2OD \cdot OA = 2XD \cdot OA$; $BC^2 = BO^2 + OC^2 + 2OD \cdot OB = 2OY \cdot OB + 2OD \cdot OB = 2DY \cdot OB$; therefore $AC^2 \cdot CB^2 = 2XD \cdot OA \cdot 2DY \cdot OB = 4DP^2 \cdot OQ^2$; or $AC \cdot CB = 2DP \cdot OQ = 2RO \cdot OQ$. q. e. d.

When R P only touches the semicircle XPY at P , the rectangle under AC and CB is a maximum.

Part 2. Constr. Take OG a third proportional to AO and OC , BI a mean proportional between BA and BG , and $AH =$ the given sum of the

the sides, through A and Q draw a right line, to which from H apply $HF=BI$, demit FE perp. to HG, and from A to the circle whose centre is O and radius OC, apply $AC=AE$, join CB, and ACB is the required triangle, the sum of whose sides is that given.

Demonstration. $AO : OB :: AO^2 : AO \cdot OB = OQ^2 :: AE^2 = AC^2 : EF^2 = FH^2 - EH^2 = BA \cdot BG - EH^2$; or, $AC^2 \cdot BO + HE^2 \cdot AO = BA \cdot BG \cdot AO = BA \cdot OC^2 + BA \cdot BO \cdot AO = AC^2 \cdot BO + CB^2 \cdot AO$ (per lemma, page 128, *Simpson's Exercices*) therefore $CB=HE$ and consequently $AC+CB=AH$. q. e. d.

When the sum of the sides AC and CB is a maximum, HF will be perp. to AQ, in which case OC bisects the angle ACB. For, the angles AQB AFH being both right, the triangles AQB, AFH are similar, therefore $AO : OB :: AC : CB$

The *Analysis*, by Mr. JAS. CUNLIFFE, of Bolton, Lancashire.

Suppose it done, ACB the required triangle, AB the given base, RC the given line, DE perp. to AB. the diameter of the circumscribing circle DBE bisecting AB in F, draw EC cutting the base in G, produce CR till it cuts the circle in n, and the tang. m E in m, and let fall m v perp. to AB. Then the triangles AGC, EGB are similar, and $AC \text{ sq.} : AG \text{ sq.} :: EB \text{ sq.} = EG \cdot EC : EG \text{ sq.} :: EC : EG$, but $AC \text{ sq.} :$



$: AG \text{ sq.} :$ the given sq. on the sum of the sides AC and CB : that on the base; therefore, when the sum of the sides is given, the ratio of EC : EG and conseq. that of EG : GC is given. Hence, by sim. trian. that of m R : RC is given, but RC is given in length, and therefore so is R m and R n also. Again, the sq. on m E = v F is = m n . m C therefore m E = v F is given. Hence this construction : bisect AB in F, take F v a mean proportional m C, m n, erect the indef. perp. vm, to which from the given point R apply Rm of the abovedetermined length, produce m R till RC is of the given length, draw AC, BC and ACB is the triangle required, when the sum of the sides is given. Hence, when that sum is a maximum, the ratio of EG : EC and conseq. that of m R : m C is a maximum, m R is a minimum, and because R n is given, m n is a minimum, and conseq. m and n coincide at E and RC bisects the vertical angle ACB.

When, instead of the sum, the rectangle of the sides is given, let fall the perp. CP then it is well known that the sq. on $AC=AR \text{ sq.} + RC \text{ sq.} + 2 AR \cdot RP$, and that on $CB=CR \text{ sq.} + RB \text{ sq.} - 2 RB \cdot RP$, make $AR \text{ sq.} + RC \text{ sq.} = 2 AR \cdot RX$ and $RB \text{ sq.} + CR \text{ sq.} = 2 RB \cdot RY$, then will the given factum $AC \text{ sq.} \text{ and } CB \text{ sq.} =$ that under $2 AR \cdot RX + 2 AR \cdot RP$ and $2 RB \cdot RY - 2 RB \cdot RP$, or = that under $2 AR \cdot PX$ and $2 RB$ into PY, or the factum under $AC \text{ sq.} \text{ and } CB \text{ sq.} = 2 BR \cdot AR \cdot 2 PX \cdot PY$, but AC . CB and BR . AR are given, conseq. PX . PY is given, but their sum XY is given, conseq. P is given, and when the rectangle is a maximum, P bisects XY, otherwise there will be two such points P and the whole is evident.

Equally ingenious answers are given by Mr. Hilton and Mr. White : also, algebraic ones by Mr. Rowe, and Mr. Watkins.

18. 30 but OA is given

C 2

4. QUART.

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4. QUEST. 756, answered by Mr. WM. HILTON, the proposer.

Let o PG represent the earth, PT the body's direction, T the point where it will stop, put the force of gravity at the earth's surface $= 1$, $g = 16 \frac{1}{2}$ feet. o P, or the earth's radius $= r$, PR the body's distance from P $= x$, and its velocity there $= v$; the forces of gravity without the earth's surface, being reciprocally as the distances from the centre squared, we get



the force at R in the direction RO $= \frac{r^2}{r^2+x^2}$, and in the direction RP $=$

$\frac{r^2x}{(r^2+x^2)^{\frac{3}{2}}}$ & $\frac{2gr^2x}{(r^2+x^2)^{\frac{3}{2}}} = -v\dot{v}$, the fluents corrected give $a^2 - v^2 = 4gr -$

$\frac{4gr^2}{(r^2+x^2)^{\frac{3}{2}}}$, this when $v=0$, or when the body arrives at T becomes

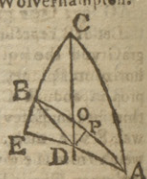
$a^2 = 4gr - \frac{4gr^2}{(r^2+x^2)^{\frac{3}{2}}}$, hence $x = \frac{\sqrt{(8a^2gr^3 - 4r^2)}}{4gr - a^2}$.

Cor. Hence, when a^2 is equal to or greater than $4gr$, or a greater than $2\sqrt{gr}$ the body will fly off to an infinite distance; this velocity is that which would be acquired by a body falling from the earth's surface to the centre, with the force at its surface uniformly continued.

And thus it is answered by Messrs. *Cunliffe*, *Rowe*, *Walker*, *Watkins*, *White*, and *Wright*.

5. QUEST. 757, answered by Mr. J. LOWRY, of Wolverhampton.

Projection. On the great circle AB, take AO and OB the given segments, bisect AB in P and erect the perp. arch PD, make the angle DBA half the supplement of the given sum, draw the great circles AD and DC, and make the angle ODE = ODA, take DE = DA, through E and B describe a great circle cutting DOC in C, through which describe CA and ACB is the triangle required.



Demonstration. AO, OB, are the given segments, and since DE = DA, angle EDC = ADC and CD common, the triangles EDC, ADC, are every way equal, and ECA is bisected by DOC: and because the triangles APD, BPD, are in like manner equal, the angle DAB = DBA, DE = DA, and the angle DBE = DEB = DAC, angle BAC = DBE - DBA, and ABC = the supplement of EBA or of DBA + DBE, hence BAC + ABC = the supplement of 2 DBA = the given sum. q. e. d.

And nearly in this manner is the answer given by Mr. *Wright*, of *Norley*. It is also ingeniously constructed by Messrs. *Cunliffe*, *Hilton*, and *White*. Messrs. *Rowe* and *Watkins* also gave algebraic answers.

6. QUEST. 758, answered by Mr. WM. HILTON, of Saddleworth.

Analysis. Imagine ACB to be the required triangle, Cr the line bisecting the vertical angle, intersecting the base in m, Ar and Bo perp. to Cr in o and r, produce Bo till it cuts AC in n: then the triangles nCo, BCo, are equal and similar, they are also similar to CrA; the triangles Arm, Bom are also similar. By the quest, the ratio of Am : Bm is given and = to that of mr : mo, but the sum of mr and mo is given, and consequently both mr and mo are given;



given; it is also well known that $Am : Bm :: AC : CB :: Ar : Bo :: Cr : Co :: Cr - or$; therefore the ratio of Cr or is given, but or is given and conseq. Cr, Co, Cm are all given. Moreover, it is known that An the diff. of the sides, the diff. of the segments made at point of tangency of the inscribed circle, and that diff. $\times AB$ is given; by sim. triangles, $Ar : An : AB :: Cr : AC, AB$ is therefore given, and conseq. AC, Am . But the diff. of the squares of AC and $Am = Cr$ sq. $- mr$ sq. which is therefore given. Hence the rectangle also of Am and AC being given, they are both given, and consequently the triangle has all the sides given.

The same answered by Mr. JOHN WRIGHT, of Norley.

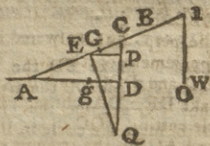
Constitute by quest. 739, Gent. Diary, a triangle ABF , which may have the rectangle $AB \cdot BF$ of its sides the given one, the ratio of its base AF : the diff. of the segments $AD - DF$ the given ratio, and the perp. BD the given distance mentioned in the quest. bisect AF with the perp. C meeting FB produced in C , join AC , and ACB is the triangle required.

For, OB being parallel to AF , $Or = DB$ the given distance, angle $ACm = BCm$, $Am : mB :: zAr = AF : zrD = AD - DF$ the given ratio, and $AB(AC - CB) = AB \cdot (CF - CB) = AB \cdot BF$ that given. $q. e. d.$

Ingenious answers are also given by Messrs. *Cunliffe, Rowe, Walker, Watkins, and White.*

7. QUEST. 759, answered by EUMENES, the proposer.

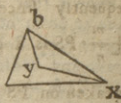
Let AB represent the rod, G its centre of gravity, r the pulley, w the weight, AD the horizontal plane, and CD the vertical one or prop.; produce CD till $CQ = CA$, and let this be supposed to represent the whole weight, or, at least, to be as W the whole weight of the rod AB . Let fall QE perp. to CA , then $CE = CD$ and $EQ = AD$, and since it is well known, that the weight that presses parallel or along the inclined plane AC is as CD , and that pressing perp. to that plane as AD , CQ, EQ and EC , will be as the whole weight W , the weight acting perp. to the inclined plane, and that acting along it respectively. Let this last pressure EC be resolved into two others, CP perp. to the horizon, and EP parallel to AD , and is the force or tendency of the rod to slide along the horizontal plane if the weight w and string were away. Consequently, EC is equal to, or as the weight w , which by the quest. supports the body in the direction of the rod AB , and consequently destroys this tendency, and also that part of the gravity CQ or weight of the rod W which is as CP , therefore that part of the weight W which is not supported or destroyed by the opposite action of the weight w , is as PQ . And since ACD may be considered as a vertical plane without weight, PQ must be as the weight acting perpendicularly along or upon the whole length of AD , that the rod with it and w may be held at rest, in equilibrium. From G the centre of gravity let fall Gg perp. to AD , then since this last weight which is as PQ is supported at A and D perp. to AD , $AD : PQ :: Ag$: a line which is as the weight pressing at D , gD : one as the weight pressing at A . Hence it follows, that W being the weight of the whole rod, $AC : CD :: W$ w , AC sq. : $AD \cdot Ag :: W$ the weight supported by the prop CD , and AC squared : $AD \cdot gD :: W$: that supported at A .



Messrs. Hilton, Rowe, Walker, Watkins, and White, also gave ingenious answers.

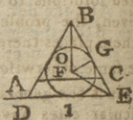
8. QUEST. 760, answered by Mr. T. WHITE, of Dumfries.

Geom. Anal. Let abx be the required triangle, y the centre of the inscribed circle, ab the given side, and abx the given angle. Then, since by bisects it, the angle ybx is given, as also *per quest.* The ratio of $yb : bx$, consequently the triangle byx is given in a species, the angle $bxa = 2bxy$ is given, hence the triangle abx is given in species, and since ab is given, the triangle is also given in magnitude. The *constr.* is obvious.



The same answered by Mr. W. TRUEMAN, of Exeter!

Let AB be the given side and ABC the given angle to bisect which draw BF , and from any point F therein let fall FG perp. to EB , with F the centre, and FG radius describe a circle Gl , take FE to FB in the given ratio, from E draw ED to touch the circle in l , and through A parallel to ED draw AC , and it is done.



For draw CO parallel to FE , and O is the centre of the circle inscribed in the triangle ABC . $BO : OC :: BF : FE$ the given ratio, AB the given side, and ABC the given angle. *q. e. d.*

Like answers are also given by Messrs. Clavey, Cunliffe, Glendenning, Hilton, Rowe, Walker, Watkins, and Wright.

9. QUEST. 761, answered by Mr. WM. WATKINS, of Wylam Engine.

Constr. Make ED the given distance of the centres, EC and DC the given distances, with the radius EC describe the circle $ACBF$, continue CD to meet the circle in F , with radius FD and centre F describe an arch ADB cutting the circle in A and B , draw AB , AC and CB , and the thing is done.



For it is well known that CD bisects the vertical angle C and makes $AF = FB = FD$, therefore AB is the base, EC the radius of the circumscribing circle, the arch ADB the locus of the centre of the inscribed circle, ED the given distance, and ACB the triangle required. *q. e. d.*

The *Analysis.* By Mr. A. GLENDENNING, Royal Navy.

Imagine ACB to be the required triangle, and the given lines EC , CD , ED drawn as *per diagram*; produce CD to F , meeting the circumference of the circumscribing circle described with the given radius EC . Whence D the centre of the inscribed circle, and F the centre of its locus ADB , are both given. *Ergo solutum.* With the given lines constitute the triangle ECD , on the centre E with the radius EC describe the circumscribing circle, to meet which in F , produce CD with F centre and radius FD describe the arch ADB , draw AB , BC , AC , and ACB will be the required triangle.

Geometrical answers are also given by Messrs. Cunliffe, Hilton, Rowe, Trueman, Walker, White, and Wright.

10. QUEST. 762, answered by Mr. W^M. HILTON, of Saddleworth.

If PRT, PST, be the given circles, and PS the required line; then *per quest. n.* $PR \pm m$. PS consequently since m and n are both given

$PR \pm \frac{m}{n} \cdot PS$ is a given line. Now if Ps be always taken on PS equal to $\frac{m}{n} \cdot PS$, the locus of s



will be a circle passing through P, by theor. 1. pa. 242, Hutton's Mathematical Miscellany. When this circle is described, if $PR + Ps$ be given, though quest. 706 of the Gentleman's Diary be only a particular case of the general problem whose solution is here required, the printed solutions to that quest. solve this general problem. If $PR - Ps$ be given, the problem is the same as the 27th of Simpson's Geometry, To these places therefore I refer for the remaining part of the solution,

The same otherwise by Mr. J. RODHAM, of Richmond, the proposer.

This is the general proposition, whereof several particular cases have been done; as when n and m are equal, several ingenious constructions are given for the upper sign, in the Diary, quest. 706, and for the under sign in Simpson's Works. But in the former, had Q and R been on different sides of P, the constr. would have been for the diff. and in the latter for the sum. The sketch I have subjoined, I apprehend, is a general construction for all cases, and is founded on this property of the circle, *vis.*



If two circles cut each other in P and Q, and C be any point in the line joining their centres A and B; if upon C as a centre, with a radius $CP = CQ$, a circle be described, then if any line be drawn through P to cut the three circles in R, S and T, $RT : TS :: AC : CB$.

Which may be thus shewn;—join the points as *per fig.* then the angles $\angle BAQ$, $\angle DCQ$, and $\angle DBQ$, be half the angles at the centres, are respectively equal to $\angle PRQ$, $\angle PTQ$, and $\angle PSQ$, those at the circumferences, of course the figure $ACBQ$ is in every respect similar to $RTSQ$, conse. $RT : TS :: AC : CB$.

Construction for the affirmative sign when R and S are on the same side of P, or for the negative sign, when the contrary.

Divide AB at C, so that $AC : BC :: m : n$, with centre C and radius CP describe a circle, to which apply PT: the given line $l : 1 : m + n$, and from P through T draw the required line.

For the negative sign—take the point C the contrary way from A, i. e. towards D, and apply PT in the contrary direction. The limits will appear by PT not touching the circle. The maximum being when the line is drawn through C, as is evident.

The same by Mr. JAS. CUNLIFFE, of Bolton, Lancashire.

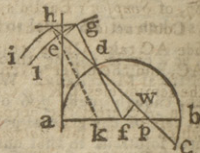
From P through the centres of the given circles draw the diameters Pd, Pa, take any where the line L such that $n \cdot L =$ the given magnitude, take Pa : Pb :: n : m, on the diam. Pb describe another circle, then draw the line PTR to cut it in T such that $PR \pm PT = L$, and the thing is done. For join bT and aS, then the angles at S and T being

right, Sa is parallel to Tb , and $Pa : Pb :: PS : PT :: n : m$. or $m \cdot PS = n \cdot PT$; but $PR \perp AT = L$, therefore $n \cdot PR \perp n \cdot PT = n \cdot L$ the given magnitude $= n \cdot P \perp m \cdot PS$. q. e. d.

Other ingenious answers are also given by Messrs. Walker, Watkins, White, and Wright.

II. QUEST. 763, answered by Mr. T. WHITE, of Dumfries.

Geom. Analysis. Drop from the centre the perp. fw , which bisects cd , and parallel to it draw eg , intersecting fd produced in g , draw gb parallel to ab , intersecting ce in b . Because the ratio of $ce : ed$ is given, therefore that of $cd = 2dw : de$ is given, and conseq. that of $dw : ed$ is given as $fgd : a$ suppose, or $a = dg$ is given, and the locus of the point g a circle gl concentric with that given.



Again, by similar triangles $ffd, dgb, df : fp :: dg : gb$ which is therefore given and parallel to ab ; and since $pd : db :: fd : dg$ is a given ratio, and p a given point, therefore by the 5 prop. lib. 1. Apoll. locorum plan. by *Simpson*, the locus of b is a given circular arch bi , take $fk = bg$, then kg is a parallelogram having its sides given, but since ab and the circle are given, this parallelogram is also given in species. ergo solutum. Constr. Produce the given rad. till $dg = a$ and to the centre f and rad. fg describe the circle gl : describe also bi such, that any line drawn from p , and cutting these circles in d and b , pd may be to db , in the given ratio of $qud : ed$, that is of $fd : dg$; find gb a fourth proportional to df, fp and dg , make $fk = gb$, with fg from k cut bi in b , draw bpc cutting the tangent in e , and the thing is done.

Demonstr. We have $pf : fk = bg :: pd : db :: df : dg = a :: dw : de$. q. e. d.

The same otherwise by Mr. J. WRIGHT, of Norley.

Analysis. Suppose the thing done, at D erect DR perp. to EC meeting the tang. EA in R . Then $EC : ED :: EC \cdot ED = EA$ sq. : ED sq. :: AP sq. : DR sq. because of the similar triangles EAP, EDR ; but AP sq. and the ratio of EC to ED are given by the quest. therefore DR sq. and conseq. DR is given; through O the centre of the given circle draw OQ perp.



to EC in I and meeting EA produced in Q : then because IQ is parallel to DR , $ED : EI :: DR : IQ$. But since the ratio of $ED : EC$ is given, that of $ED : EI =$ half the sum of ED & EC is given, and DR is given therefore IQ is given. Again the angles at A and I being right, P, I, Q, A , are in a circle, consequently $OQ = OA$. OP a given rect. angle: and OQ is found by *Simpson's* Geom. 18. 5.

Construction. Find DR such, that DR sq. : EP sq. :: $ED : EC$, take $IQ : DR :: DF : half the sum of DE and EC : to IQ add OI so that $QO = IO$ may be equal to the given rectangle of OP and OA , then with the centre O and radius OI describe a circle, to touch which, through P draw the required line CDE .$

And in a manner equally ingenious is the answer given by Mr. Cannon, the proposer, and Mr. Hilton.

(12) QUEST. 767, by Mr. J. WALKER, of Bilborough.

From the first datum in the quest. the rectangle of the sides is given, by 26. 6. Emerson's Geometry, and the second datum is the same as the diff. of the squares of the sides, hence the sides are given by pr. 87, of Simpson's Euclid's Data. Hence this

Construction. On the greater given side AC take CF, a third proportional to AC, and the other given side, and describe the semicircles CKF, CDA: at any point G in AC erect the perp. GH such that AG : GH may be in the ratio

which is the last datum of the quest. from A through H draw AK to the semicircle, through K perp. to AC draw ED to the semicircle ADC, through A and D draw a line, to which, from C set CB = the other given side, and ACB is the required triangle.

For AC, CB are of the given length, and by sim. triangles AG : GH :: AE : EK :: AC . AE = AD sq. : AC . EK, but EK sq. = FE . EC = EC . (CF - CE) and AC . FC = CB² sq. CD sq. + DB sq, therefore AC sq. EK sq. = AC sq. EC . (CF - CE) = AC . CE . (CB sq. - CA . CE) = CD sq. (CB sq. - CD sq.) = CD sq. DE sq. or AC . EK = CD . DB, which therefore is in the given ratio to AD sq. q. e. d.

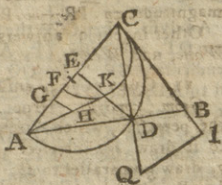
Limitation. Whilst AK cuts the given semicircles, two triangles will be found to answer the conditions: but when it only touches it, there will be only one, and then EK will be a maximum, and therefore the ratio of AE : EK a minimum.

The Analysis, by Mr. J. WRIGHT, of Norley.

Suppose the thing done, ACB the triangle, AC and CB, whose rectangle and diff. of their squares is given by the two first data of the quest. and consq. these sides are both given. Produce the perp. CD till it meet a perp. from A to AC in C at Q. Then because the ratio of AD sq. = DQ . CD : CD . DB :: DQ : DB is given, and the angle BDQ right, the angle DQB is given, and therefore the locus of Q is a given circle passing through the points B, C: on CB produced let fall the perp. QI, then, by similar triangles CI . CB = CQ . CD = AC sq. a given square, but CB is given, consq. CI and the point I are given. Hence this

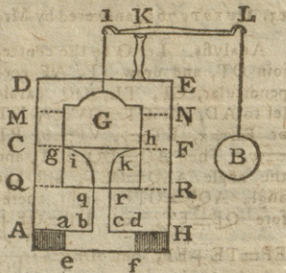
Construction. On BC describe a segment capable of containing the given angle BDQ, produce CB till the rectangle under C I . CB = the given square on AC erect IQ perp. to CI cutting the segment in Q, draw CQ and BDA perp. thereto, to which apply CA of the given length: and ACB is the triangle. . . . When the ratio of the square on AD: the rect. of CD and DB is a minimum, the segment described on CB will touch IQ, in all other possible cases it will cut it in two points, either of which may be taken.

Like geometrical answers are also given by Messrs. Cunliffe, Hilton, and White. Mr. Watkins gave an algebraical answer.



15. QUEST. 767, answered by Mr. WALKER, of Bilborough.

Let ADEH represent the end of the reservoir, *aefd* the constant aperture, *bigbc* the additional aperture, which is wholly stopped by the shuttle G, when the reservoir is full, and is moved up and down by the lever IKL moving about K as a centre, by the buoy B swimming on the top of the water.



Then, by the quest. $b=ef$, $d=ac$, $b=AD$, v = a variable part of ae , and $s=193$ inches; and, by the laws of falling bodies, as $\sqrt{s} : 2s ::$ half the sq. root of $2b+2v : \sqrt{2s} \cdot (b+v) =$ the velocity of a particle of water at the depth $b+v$ below DE when the reservoir is full, and therefore $-bv\sqrt{(2s \cdot b+v)}$ = the fluxion of the quantity per second;

whose fluent must vanish when $v=d$, and is therefore $= \frac{2b\sqrt{2s}}{3} \times$

$(\overline{b+d}^{\frac{3}{2}} - \overline{b+v}^{\frac{3}{2}})$ and when $v=0$, or for the whole aperture it becomes $\frac{2b\sqrt{2s}}{3} \times (\overline{b+d}^{\frac{3}{2}} - b^{\frac{3}{2}})$ and for any other height $AM=x$,

$\frac{2b\sqrt{2s}}{3} \times (\overline{x+d}^{\frac{3}{2}} - x^{\frac{3}{2}})$ = the quantity per second issuing out of the aperture *aefd*, when x = the height of the water, and their difference =

$\frac{2b\sqrt{2s}}{3} \times (\overline{b+d}^{\frac{3}{2}} - b^{\frac{3}{2}} - \overline{x+d}^{\frac{3}{2}} + x^{\frac{3}{2}})$ = the quantity per second

required to issue out of the aperture *qr* whose height is $qb=rc=AQ=x$, let $qr=2y$ and the fluxion of the quantity per sec. for the upper aperture at *q*, MQ being $=z-x$, is $2y\dot{x}\sqrt{z-x}$ whose fluent must vanish when $x=0$, and $z=b$, hence $2y\dot{x}\sqrt{z-x} = -b\dot{z} \cdot (\overline{z+b}^{\frac{1}{2}} - \overline{z}^{\frac{1}{2}})$

and by the quest. $b-n$ = the whole variation of the height is to n the least height :: $AD-AM : AM ::$ the descent of the buoy : the ascent of the shuttle :: $-z : \dot{z} :: b-x : x :: DM : AQ$, that is $-z =$

$\frac{b-n}{n} \cdot \dot{z}$, and $z = b + x - \frac{bx}{n}$, hence $2y\dot{x}\sqrt{b-\frac{bx}{n}} = \frac{b-n}{n} \cdot b\dot{x} \times$

$(\overline{z+b}^{\frac{1}{2}} - \overline{z}^{\frac{1}{2}}) 2y\sqrt{b-\frac{bx}{n}} = \frac{b-b-n}{n} \cdot \left(\frac{n(d+b-x) - bx}{n} \right)^{\frac{1}{2}} -$

$\frac{nb+nx-bx}{n} \cdot \left(\frac{1}{2} \right)$ the equation of the curve required. When $x=s$,

$2y\sqrt{bn} = \frac{nb-nb}{n} \cdot (\sqrt{nd+nb} - \sqrt{nb})$ which is the value of y at the

bottom of the curved aperture, and when $x=n$, y is infinite or *CgbF* is an asymptote to the curve. The area of the curve will be found from the fluent of $2yx$, which from the above equation will be found =

$$-ax \sqrt{\frac{e}{b}} \times \left(\left(\frac{q}{c} - x \times n - x \right)^{\frac{1}{2}} - \left(\frac{m}{c} - x \times n - x \right)^{\frac{1}{2}} + \frac{q - cn}{2c} \right) \cdot b,$$

$$\log. \text{ of } \frac{q + cn}{e} - x + \left(\frac{q}{c} - x \cdot n - x \right)^{\frac{1}{2}}, - \frac{m - cn}{2c} \times b. \log. \text{ of } \frac{m + cn}{2c}$$

$$- x + \left(\frac{m}{c} - x \cdot n - x \right)^{\frac{1}{2}} \text{ where } a = \frac{bb - bn}{n}, m = b + d, n = b - n,$$

and $q = bn$; which, being corrected so as to vanish when $x = 0$, gives the area required.

If $AD = b = 48$, $AC = n = 12$, $b = 5.5$, and $d = 1.75$ inches, the above conclusions will adapt themselves to the water gauge, that regulates the water which passes from the Nottingham to the Brewsath canal. And, if the value of x be taken $= 0$ in the equation of the curve; the bottom double ordinate $bc = .297 = 2y$; when $x = 6$ inches, $2y = .5394$, when $x = 11$, $2y = 1.8116$, when $x = 11.9$, $2y = 6.293$, when $x = 11.99$, $2y = 20.1068$ inches, and when $x = n = 12$ inches, y is infinite. And other ordinates at pleasure may be found from the above equation of the curve.

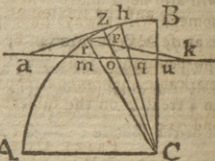
In what is here done, the velocity of the issuing water is taken equal to that acquired by a heavy body falling through half the height of the head of the water above the issuing point in the aperture. And with this velocity, and the above dimensions, the quantity of water issuing should be $= 2724$ cubic feet in an hour; but, if the velocity had been taken equal to that acquired by a heavy body falling through the whole height, the quantity issuing should be 3895 cubic feet in an hour. And $KL : KI ::$ the lowering of the water in the reservoir : the rising of the shuttle : $b - n : n$.

Messrs. *Hilton* and *White* also gave ingenious answers.

16. QUEST. 768, answered by Mr. JOHN TODD, of Berwick.

Let ABC be a quadrant of the earth's disk, BC the axis of the ecliptic, Cx that of the earth, P the North pole, $ab = rk$, the penumbra's semi diameter, Cu the moon's latitude, and ak the central path.

If a place as at b , touched by the Eastern limb of the penumbra at sun-setting, describes its nocturnal arch in the same time



that the shadow's centre moves from a to k , then, it is evident, the said place will be touched by the penumbra's Western limb at sun-rising as at r , the arch rz being $= zb$; and therefore the eclipse at such place will begin at sun-setting, and end the next morning at sun-rising.

Let the sine of Pz , the sun's declination, $= n$, 6.283 , &c. $= a$, and the tangent of the angle $rPz = zPb = x$; then, per spherics, the tangent of the arch rz , or angle $rCz = zCb$ being $= nx$, its sine will be $=$

$\frac{nx}{\sqrt{(1+n^2x^2)}}$. Then oC , and the angle ϕ of the triangles oCm and oCq , being given, and the sine of C expressed, we shall, from well known theorems, obtain expressions for the sines of Cmo and Cqo , their sum, and also for those of the sides Cm , Cq , and mq ; and the sides ab and rk of the triangles abq and krm being given, and bq and rm and the sines of the angles aqk and kmr expressed, we obtain expressions for a

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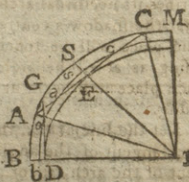
and mk , and consequently for $ak = aq + mk - mq$; but ak divided by 1627 expresses the time wherein the shadow's centre transits ak , which equated with $\frac{48}{a} \cdot \left(x - \frac{x^3}{3} + \frac{x^5}{5} - \&c. \right)$ the time wherein the place at b describes its nocturnal arch, x will be found = 288272, the tang. of $16^\circ 4' 51''$ the seminocturnal arch, whose supplement $163^\circ 55' 9''$ is the longitude of the required place to the east of the solar meridian at sun-setting, or to the West thereof at sun-rising. But the time at London when the shadow's centre is at a , being 11b. 59m. 15sc. A. M. the longitude of the place required will therefore be $163^\circ 55' 9''$ East from London. The side zP and the angle P of the spheric triangle zPr or zPb being given, we obtain rP or $Pb = 6^\circ 14' 33''$ the complement of the required latitude. The time of the greatest obscuration will be at midnight nearly, and the quantity $10^\circ 25'$ on the Sun's lower limb, visible by refraction. The penumbra's centre enters the earth in the unknown parts of North-America in lat. $81^\circ 26'$; long. $147^\circ 21'$ West, and transits the solar meridian in lat. $75^\circ 36'$ long. $16^\circ 40'$ West; thence passing over the Northern and German Oceans, leaving Norway to the East, and the British Isles to the West, it enters Europe near Carlstadt, and passing over Germany, the Gulph of Venice, the Morea, Candia, and the Levant, finally leaves the earth in Arabia deserta, in lat. $27^\circ 27'$ N. long. $46^\circ 34'$ East.

This is the greatest Solar Eclipse that will be visible in Great Britain till May 15, 1836. The centre of the Annulus entering Scotland near Campbelltown about 50 minutes past two in the afternoon, will pass near Ayre, Peebles, and Kelso, and leave England about ten minutes past three, near Alnwick.

Scolium. From what has been shewn it appears, that if the Sun be in the same hemisphere wherein a solar eclipse happens, there will be a particular point or place in such hemisphere, to whose inhabitants he will be eclipsed all night; and if he be in the opposite hemisphere, there will also be a place where he will be eclipsed all day. And such phenomena will always happen, when part of the penumbra falls into the expanse, except the Sun be in the equinoctial; but cannot happen when the penumbra falls wholly within the disk. Which, with other remarkable phenomena relative to Solar Eclipses, will be fully illustrated in a treatise on the subject which I mean to publish. *Vide*, quest. 682 and 715.

PRIZE QUESTION, answered by EUMENES.

Let AB , DE be two conic sections, whose vertexes B and D and axes Bb , Dd are in the same right line Bb , and such that IES being drawn through the point E where a tangent AC within the outer one touches the inner one at E , and $IS : IE :: IB : ID$, then it is well known, that the segment ASC will be bisected by the line SE , and conseq. erecting DG perp. Bb meeting the curve in G , the abscissas BD and SE of the segments BDG , SEA ; being to each other in the ratio of the semi-diameters Bb and Ss , those segments it is easily seen must have equal areas, that is $GBD = SAE = SsE$. Let $bbaa$ be another conic section having still the same property,



property, that is, $ls : lE :: lb : lD$, cutting DG , in o , and AC in a and c , and intersecting lS in s . Then, in like manner the area of the segment $Dob = Eas = Ecs$. If now the whole fig. revolve about the axis Bl , it is plain from the nature of the quest. that DG will be the radius of the segment of the solid's base = its perp. height above the plane GBD = the perp. height above E of the solid $AcSA$. Hence, at the height oD above the plane of the figure, $zobD$ will be a section of the solid parallel to the plane BGD , and asc one of the segment ASC , at the same height = oD above the plane of the figure. Conseq. the solids whose greatest segments are $zBGD$ and ASC having equal bases, and equal sections at equal heights parallel to those bases must be equal that is the solid $ASC = zBGD$. And the inner curve a parabola, ellipsis, or hyperbola, according to what the outer one is.

The same otherwise, by Mr. JAMES CUNLIFFE.

Put $f = lB$ the fixed semi-axe of the conic section BAM by whose revolution the external solid is generated, $r = lM$ the revolving semi-axe, and let $ASCEA$ represent a general segment of the solid cut off by a plane preperd. to ASC , AC the transverse diameter of the ellipsis upon this plane: lS a semi-diameter of the external section bisecting AC in E . Put $lS = a$ and $lE = x$. Then the content of the general segment so cut off, in the spheroid and hyperbolic conoid $= \frac{2}{3} p f r^2 x$.

$\left(l - \frac{3x}{2a} + \frac{x^3}{2a^3} \right)$. But by the quest. this must be a given quantity or magnitude, and p , f and r being given, the ratio of $a : x$ must also be given or constant. And this can only be when the point E is situate in a curve similar and concentric to the external one BSM , in the case of the ellipsis and hyperbola. And, as a parabola is only an ellipsis indefinitely long, in this case the inner curve must be a parabola, having its vertex in the given point D of the same axis, and in all respects equal to the outer one BGM .

Ingenious answers are given by Messrs. *Hilton, Walker, Watkins, and White*.

The first prize of the Diaries for the solution of the Prize Question belongs to Mr. *W. Hilton*, of Saddleworth, near Manchester.

The second prize of 6 Diaries, to Mr. *James Cunliffe*, of Bolton.

The third prize of 9 Diaries for the answer to the Prize Enigma, to Mr. *Wm. Spencer*, of Sapcote, Leicestershire.

That of 9 Diaries for the general answer to the Enigma, to Mr. *J. Wyrill*, of Wistow, near Seiby, in Yorkshire.

They are desired to write for them to Mr. *G. Greenbill*, at Stationers-Hall, who will deliver them to their order any where in London.

New Mathematical QUESTIONS, to be answered in next Year's DIARY.

(1) QUEST. 770, by Mr. THO. BAKER, of Nuneaton.

Two sisters learned, fair, and kind,	Ingenious youths then try your skill,
Desire you will their ages find,	And each woo till she say, I will
By mathematic art:	Hands at the altar join;
Their ample fortunes also you	And then may happiness attend,
Required are to let in view,	Each wedded pair and virtuous friend,
From what they here impart,	With harmony divine,

$w+x^3\sqrt{y}=22480$, $x+y^3\sqrt{x}=64500$, $w^2+wx^3\sqrt{y}=44960000$, &
 $z^2+zy^3\sqrt{x}=129000000$. required x and y their ages and w & z their
 fortunes by simple equations?

(2) QUEST. 771, by Mr. J. WYRILL.

Dear Gents as below, these equations I shew

Which solv'd, no untruths I declare,

y the month, x the day, z the year, will display,

When I first breath'd the free Yorkshire air.

$$\frac{x}{z-y} = 220 = a, \quad x+y+z = 1772 = b, \quad xy+z = 3530 = c.$$

(3) QUEST. 772, by Mr. ALEXANDER ROWE, of Reginnis.

In the spring quarter, the Sun's rising amplitude was $24^{\circ} 41'$, and the
 colatitude of the place triple the Sun's declination: required the latitude
 and day of observation?

(4) QUEST. 773, by Mr. JOHN WYRILL.

Being upon the look-out one calm night at sea, at the mast head 20
 yards from the water, I discovered a well known light just in the hori-
 zon, whose height above the level of the water was 80 yards. What
 was the distance from it allowing for refraction, the earth's diameter
 being 7970 miles?

(5) QUEST. 774, by Mr. J. FILDES.

Required the distance of those two points in the horizon, which come
 in contact with the upper and lower edges of the Sun, at its rising: in
 lat. $53^{\circ} 22' N$, on March 27th, 1798?

(6) QUEST. 775, by Mr. THO. MILNER, of Lartington.

Given two of the sides of a plane triangle to construct it, when the
 base or third side is equal to the perpendicular upon it from the opposite
 angle.

(7) QUEST. 776, by Mr. W. WATKINS, of Wylam.

Given the perpendicular the line bisecting the vertical angle and
 terminating in the base, and also its prolongation till it meet the peri-
 phery of the circumscribing circle: to construct the triangle?

(8) QUEST. 777, by Mr. J. LOWRY, Officer of Excise.

To a given radius to divide a given arch into two parts such that the
 sum of the squares of their secants may be a given magnitude?

(9) QUEST. 778, by Mr. JAMES CUNLIFFE.

To construct two arches or angles to the same radius, such that their
 cosines may have a given difference, their sines a given ratio, and also
 that the difference of the squares of their chords may be of a given
 magnitude?

(10) QUEST. 779, by Mr. J. RODHAM, Land Surveyor.

Three right lines given in position, intersect in three points A, B,
 C, and form a triangle, to draw a fourth right line parallel to another
 given in position which shall cut the three former, in Q, R, and S,
 and form two other triangles CRQ, BRS, whose sum, difference, or
 ratio, may be given?

(11) QUEST. 780, by Mr. WM. HINTON, of Saddleworth.

To determine a point P in the circumference of a given circle, so that
 if two right lines PBQ, PDE be drawn through two given points B and
 D both

D both within the circle, and terminating in the circumference at C and E; the ratio of BC to DE may be a given one?

(12) QUEST. 781, by Mr. J. TODD, of Berwick.

In an infinite series expressing the Moon's true place in her orbit, the term expressing the mean equation of the centre is— $.109766 \times \text{fine } A$ + $.003766 \times \text{fine } 2A$ — $.00018 \times \text{fine } 3A$; it is required to determine the mean anomaly (A) when the said equation is a maximum?

(13) QUEST. 782, by SENONSIBI.

Given the base, the length of a line drawn from a given point therein to the vertical angle, and the difference of the other two sides to construct the triangle?

(14) QUEST. 783, by Mr. WM. HILTON.

From one of the points of intersection P of two circles given in magnitude and position, it is required to draw a right line cutting them again in R and S, so that the sum of the squares of PR and PS may be a given magnitude; and to shew the limitations?

(15) QUEST. 784, by Mr. T. WHITE, of Dumfries.

In Euler's Theory of Ships, by Watson, § 52nd, if AB and CD be the axes of an ellipse, and if the respective momentums of the particles, with regard to AB and CD, that is, of the sums of the products of the particles by the squares of their distances from AB and CD respectively, be denoted by (AB) and (CD), and the like momentum with respect to any oblique diameter MN which makes with AB an angle of θ degrees, be similarly denoted by (MN) then (MN) is = (AB) $\cos. 2\theta$ + (CD) $\sin. 2\theta$, required the investigation?

(16) QUEST. 785, by Mr. JAS. CUNLIFFE.

Required the fluent of $x \sqrt{x} \times (a+x)^3$ by means of circular arcs and logarithms?

(17) QUEST. 786, by NAUTICUS.

A privateer gave chase to a sloop, bearing S. W. b W, and distant 18 miles, the sloop finding the privateer gained on her, and that the wind, then at N. W. by N. $\frac{1}{2}$ W. would permit her to lie up for a port, which bore N. N. E. tacked for it. The privateer could not make her way good six points from the wind, and ran *ten* knots, while the sloop ran only seven. It is required to find geometrically, whether the privateer could fetch the sloop or not; and, if not, what his nearest approach to her must be; and when it would happen, reckoning from the time that the chase first commenced at?

(18) QUEST. 787, by Mr. J. WRIGHT.

Given the lengths of four right lines drawn from the same point P, to the four angles of a rhombus; to construct the rhombus when the sum of the squares of the four perpendiculars let fall from the point P to the sides is given. And to extend the method to any other quadrilateral whose four sides are in a given ratio to one another?

PRIZE QUESTION. By Mr. JAMES SKENE, A. M. of Aberdeen.

If a spherical body A, connected to a weight W by a thread going over a pulley, whose position is given, be any how projected upon an inclined plane perfectly polished, to determine its motion?

FINIS.

The LADIES' Diary:

OR

WOMAN'S ALMANACK,

For the Year of our LORD 1799;

Being the Third after BISSEXTILE, or LEAP-YEAR.

Containing New Improvements in ARTS and SCIENCES,

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Printed for the COMPANY of STATIONERS, and sold by G. GREENHILL, Treasurer to the Company, at their Hall in Ludgate-Street.

[Price stitched, SIXTEEN-PENCE.]

CHRONOLOGY OF REMARKABLE EVENTS.

1799.

<i>Y. of Christ.</i>	<i>Ys. since.</i>	<i>Y. of Christ.</i>	<i>Ys. since.</i>
1600	King Charles I. born	1714	Q. Ann died, K. Geo. I. succ. 85
1603	Q. Eliz. died, K. Ja. succ.	1715	Rebellion in the north - 84
1603	A great Plague in London	1716	A very great frost - 83
1605	Popish Gun-powder Plot	1726	Sir Isaac Newton died - 73
1616	Shakespeare the poet died	1727	K. Geo. I. died, Geo. II. succ. 72
1625	K. James died, Cha. I. succ.	1739	War against Spain declared 60
1641	Bloody Irish massacre -	1739	A very great frost - 60
1642	Sir I. Newton born, Dec. 25	1743	A great comet appeared 56
1649	K. Charles I. beheaded	1744	War against France declared 55
1658	Oliver Cromwell died -	1745	Rebellion in Scotland - 54
1660	K. Charles II. restored	1748	A general peace - 51
1662	Royal Society instituted	1750	Westminster bridge finished 49
1665	Died of the plague 68,586	1752	Date and Calendar altered 47
1666	Great fire in London -	1756	War against France declared 43
1666	War against Denmark decl.	1760	K. Geo. II. died, G. III. succ. 39
1667	Peace with Hol. Fr. & Den. 132	1762	American philof. soc. instit. 37
1672	War against Holland decl.	1762	War against Spain declared 37
1672	Halfpence & Farth. coined	1763	Peace with France & Spain 36
1674	Peace with Holland procl.	1765	Otaheite discovered - 34
1679	Habeas Corpus act passed	1770	Blackfriars bridge finished 29
1685	K. Cha. II. died, Ja. II. succ.	1772	A revolution in Denmark 27
1688	Prince of Orange landed	1772	A revolution in Sweden 27
1688	K. James II. abdicated	1775	War against America begun 24
1689	Wm. and Mary crowned	1776	America declared independent 23
1693	Hackney coaches established	1778	French treaty with America 21
1702	K. Wm. died, Q. Ann succ.	1778	War against France begun 21
1702	War against France declared	1779	War against Spain begun 20
1707	England & Scotland united	1780	War against Holland begun 19
1713	Peace with France procl.	1783	A general peace - 16

BIRTH-DAYS, [N. S.] and YEARS, of the ROYAL FAMILY OF GREAT BRITAIN.

KING GEORGE III. June 4, 1738	Prince Aug. Fred. Jan. 27, 1773
Prince of Wales, August 12, 1762	Prince Adolph. Fred. Feb. 24, 1774
Duke of York, August 16, 1763	Princess Mary, April 25, - 1776
Duke of Clarence, Aug. 21, 1765	Princess Sophia, Nov. 3, - 1777
Prs. of Wirtem. Septem. 29, 1766	Princess Amelia, Aug. 7, - 1783
Prince Edward, Nov. 2, - 1767	Queen Charlotte, May 19, - 1744
Prs. Augusta Sophia, Nov. 8, 1768	Duchess of Brunsw. Aug. 11, 1737
Prs. Elizabeth, May 22, - 1770	Duke of Gloucester, Nov. 25, 1743
Prince Ernest Augustus, June 5, 1771	

YEARS of BIRTHS of the Principal SOVEREIGN PRINCES of EUROPE.

Pius VI. Pope - - - 1717	Francis II. Emp. Germ. - 1767
Victor Amada Maria, K. Sardinia 1726	William V. Stadtholder, - 1748
Paul I. Emperor of Russia, 1754	Charles, IV. King of Spain, 1748
Maria, Queen of Portugal - 1734	Christian VII, K. of Denmark, 1749
Frederic V. King of Prussia, 1770	Ferdinand IV. King of Sicily, 1751
Gustavus IV. King of Sweden, 1778	Selim III, Grand Signor - 1761

New Moon, 6th, 14m. past	4 morn.	Sun enters	19d. 11h. 8m.
First Quarter, 14th, 58m. past	3 morn.		
Full Moon, 21st, 41m. past	5 aftern.		
Last Quarter, 28th, 0m. past	10 morn.		

1	R	Circumcision	8	53	55	23	0	2	40	25
2	W			4	56	22	54	4	3	26
3	Th			3	57		48	5	28	27
4	F			3	57		42	6	48	28
5	S	<i>Old Christmas Day</i>		2	58		38	7	55	29
6	F	Epiphany <i>Twelfth-day</i>		1	59		28	1	fets	N
7	M	<i>Plough Monday</i>		0	4	0	21	5	a	1
8	Th	<i>Lucian</i>	7	59	1	13	6	20		2
9	W			58	2		4	7	35	3
10	Th			57	3	21	55	8	46	4
11	F			56	4		46	9	56	5
12	S	<i>Old New-Year's day</i>		55	5	36	11	5		6
13	F	Sunday after Epiphany		54	6		26	morn		7
14	M	<i>Off. T. b. [Hilary. C. T. b.]</i>		53	7		15	0	12	8
15	Th			52	8		19	1	23	9
16	W			51	9	20	53	2	35	10
17	Th	<i>Old Twelfth Day [Prisca]</i>		49	11		41	3	50	11
18	F	Qu. Char. birth day kept		48	12		29	5	3	12
19	S			47	13		16	6	16	13
20	F	Septuagesima Sunday		45	15		3	7	17	14
21	M	<i>Agnes. Hil. T. 1re. [Fabian]</i>		44	16	19	50	1	rises	F
22	Th	<i>Vincent</i>		42	18		36	5	a	5
23	W	<i>Hilary Term begins</i>		41	19		22	6	32	17
24	Th			40	20		8	8	3	18
25	F	Conversion of St. Paul		38	22	18	53	9	28	19
26	S			37	23		38	10	53	20
27	F	Sexage. S. Pr. Aug. Fre. b.		35	25		23	morn		21
28	M	<i>[Hilary 2 re.]</i>		33	27		7	0	19	22
29	Th			32	28	17	51	1	43	23
30	W	K. Charles I. mart. 1649		30	30		34	3	8	24
31	Th			28	32		28	4	26	25

Days	L. of D.	Day Inc.	D. breaks	Tw. ends	Sun East	Cl. bef. S.	7 Stars So.
1	7 50	0 6	6 0	6 0	4 41	4 8	8 a 44
6	58	14	5 58	2	41	6 25	22
11	8 8	24	54	6	46	8 30	0
16	18	34	49	11	49	10 19	7 39
21	32	48	44	16	53	11 50	18
26	46	1 2	38	22	58	13 46	6 56

New Moon, 6th, 34m. past 1 aftern.
 First Quarter, 14th, 22m. past 6 aftern. Sun enters ♈
 Full Moon, 21st, 53m. past 2 aftern. zod. 2h. 17m.
 Last Quarter, 28th, 34m. past 7 morn.

1	F	David	6	34	5	26	7	s	28	4	m	36	25
2	S	Chad	32			28			5	5		24	26
3	F	4th or Midlent Sunday	30	30	6	42	5	56	27				
4	M		29	31		19	6	21	28				
5	Tu		27	33	5	56	6	40	29				
6	W		25	35		32	D	fets	N				
7	Th	Perpetua	23	37		9	6	a	36				
8	F		21	39	4	46	7	46	1				
9	S		19	41		22	8	54	2				
10	F	5 Sunday in Lent	17	43	3	59	10	5	3				
11	M		15	45		35	11	18	5				
12	Tu	Gregory	13	47		12	morn		6				
13	W		11	49	2	48	0	30	7				
14	Th		9	51		24	1	42	8				
15	F	Cam. Term ends	7	53		1	2	51	9				
16	S	Orf. Term ends	5	55	1	37	3	48	10				
17	F	Palm Sunday St. Patrick	3	57		13	4	34	11				
18	M	Edward K. W. S.	1	59	0	50	5	10	12				
19	Tu		5	59	6	1	26	5	35				
20	W		57	3		2	5	56	14				
21	Th	Benedict: Maundy Thursday	55	5	n	21	D	rises	F				
22	F	Good Friday	53	7		45	7	a	33				
23	S		51	9	1	9	9	6	17				
24	F	Easter Day	49	11		32	10	39	18				
25	M	Lady Day: Easter Mōnd.	47	13		56	morn		19				
26	Tu	Easter Tuesday	45	15	2	19	0	8	20				
27	W		43	17		43	1	30	21				
28	Th		41	19	3	6	2	38	22				
29	F		39	21		30	3	31	23				
30	S		37	23		53	4	9	24				
31	F	Low Sunday	35	25	4	16	4	35	25				

Days	L. of D.	Day Inc.	D. breaks	Tw. ends	Sun East	Cl. bef. S.	7 Stars So.								
1	10	52	3	8	4	44	7	17	5	56	12'	36"	4	a	44
6	11	10		26	32	29		42	11	29					26
11		30		46	22	40		48	10	12					8
16		50	4	6	12	50		55	8	48			3		49
21	12	10		26	2	8	1	6	1	7	17				31
26		30		46	3	50		13		7	5	44			17

New Moon, 5th, 21m. past 7 morn.
 First Quarter, 13th, 47m. past 7 morn.
 Full Moon, 19th, 40m. past 11 night.
 Last Quarter, 26th, 30m. past 8 night.

Sun enters 8
 194. 14h. 56m.

1	M		5	33	6	27	4n39	4m50	26		
2	Tu			31		29	5	2	5 11	27	
3	W	St. Andrew & Am. T. b. Richa.		29		31		25	5	23	28
4	Th	Ambrose		27		33		48	5	35	29
5	F	Old Lady Day		25		35	6	11	D sets	N	
6	S			23		37		34	8 a	0	1
7	F	2 Sunday aft. Easter		21		39		56	9	12	2
8	M	Easter Term 1 ret.		19		41	7	1	10	28	3
9	Tu			17		43		4	11	42	4
10	W	Easter Term begins		16		44	8	3	morn		5
11	Th			14		46		25	0	50	6
12	F			12		48		47	1	51	7
13	S			10		50	9	9	2	49	8
14	F	3 Sunday after Easter		8		52		31	3	18	9
15	M	Easter Term 2 return		6		54		52	3	44	10
16	Tu			4		56	10	13	4	7	11
17	W			2		58		35	4	26	12
18	Th			0	7	0		55	4	41	13
19	F	Alphege	4	58		2	11	16	D rises	F	
20	S			57		3		37	8 a	10	15
21	F	4 Sunday after Easter		55		5		57	9	46	16
22	M	Easter Term 3 return		53		7	12	17	11	14	17
23	Tu	St. George		51		9		3	morn		18
24	W			49		11		57	0	32	19
25	Th	St. Mark. Prs. Mary born		47		13	13	17	1	34	20
26	F			45		15		36	2	17	21
27	S			44		16		55	2	47	22
28	F	5th or Rogation Sunday		42		18	14	14	3	9	23
29	M	Easter Term 4 return		40		20		33	3	25	24
30	Tu			38		22		51	3	39	25

Days	L. of D.	Day Inc.	D. break	Tw. ends	Sun East	Cl. bef. S.	7 Stars So.
1	12	54	5 10	3 33	8 28	6 15	3 53
6	13	4	30	21	40	21	2 24
11		32	48	6	55	27	0 59
16		52	6 8	2 54	9 7	33	a 18
21	14	10	26	40	21	39	1 27
26		30	46	25	37	44	2 24

New Moon,	4th, 14m. past 12 night.	Sun enters II
First Quarter,	12th, 9m. past 5 aftern.	zod. 15h. 25m.
Full Moon,	19th, 51m. past 7 morn.	
Last Quarter,	26th, 5m. past 11 morn.	

1	W	St. Philip and St. James	4	37	7	23	5	10	3	5	1	26
2	Th	Ascension or Holy Thurs.		35		25		28	4		1	27
3	F	<i>Inv. of the Cross. Ea. T. 5re.</i>		33		27		45	4		13	28
4	S			31		29	16	3	D	fets	N	
5	F	Sunday after Ascension		30		30		20	8	a	23	1
6	M	<i>Ea. Term e. J. E. a P. L.</i>		28		32		37	9		35	2
7	Tu			26		34		54	10		46	3
8	W			25		35	17	10	11		50	4
9	Th	Orf. Term ends		23		37		26		morn		5
10	F			21		39		42	0		43	6
11	S			20		40		57	1		23	7
12	F	Whit-Sunday. Old Mayday		18		42	18	12	1		53	8
13	M	Whit-Monday		17		43		27	2		16	9
14	Tu	Whit-Tuesday		15		45		42	2		34	10
15	W	Ember Week		14		46		56	2		49	11
16	Th			12		48	19	10	3		4	12
17	F	Prs. of Wales born		11		49		24	3		19	13
18	S			9		51		37	3		36	14
19	F	Trinity Sun. Q. Char. b.		8		52		50	D	rises		15
20	M	<i>T. T. I re. [Dunst. C. T. d. m.]</i>		7		53	20	2	10	a	9	16
21	Tu			5		55		15	11		20	17
22	W	Prs. Elisabeth born 1770		4		56		27		morn		18
23	Th	Corpus Chr. [Orf. T. b.]		3		57		38	0		12	19
24	F	Trinity Term begins		2		59		49	0		49	20
25	S	<i>[Augustin]</i>		0	8	0	21	0	1		14	21
26	F	I Sunday after Trinity	3	59		1		11	1		32	22
27	M	<i>Ven. Bede. Trin. Ter. 2 re.</i>		58		2		21	1		46	23
28	Tu			57		3		31	1		59	24
29	W	K. Char. II. restored		56		4		40	2		10	25
30	T			55		5		49	2		20	26
31	F			54		6		58	2		33	27

Days	L. of D.	Day Inc.	D. breaks	Tw. ends	Sun East	Cl. aft. S.	7 Stars Sc.					
1	14	46	7	2	2	7	9 55	6 50	3' 8"	0 a	9	
6	15	4	20	1	52	10	10	55	39		40	
11		20	36		30		33	7	0	55	21	
16		36	52		7		56		4	58	1	
21		50	8 6	0	32	11	38		8	47	11 m	42
26	16	2	18		No real Night			12		23		22

New Moon, 3d, 5m. past 3 aftern.
 First Quarter, 10th, 28m. past 11 night.
 Full Moon, 17th, 5m. past 4 aftern.
 Last Quarter, 25th, 14m. past 3 morn.

Sun enters ϖ
 21d. oh. 3m.

1	S	Nicomede	3	53	8	7	22	n	0	2	m	45	28
2	F	2 Sunday after Trinity		52		8	14	3	3	29			
3	M	Trin. Te. 3 ret.		51		9	22	D	fets	N			
4	Tu	King Geo. III. born 1738		50		10	29	9	a	42			1
5	W	Pr. Ernest Augustus born		49		11	35	10	39	2			
6	Th	[Boniface]		49		11	42	11	22	3			
7	F			48		12	48	11	56	4			
8	S			47		13	53	morn		5			
9	F	3 Sunday after Trinity		47		13	58	0	19	6			
10	M	Tri. Term 4 return		46		14	23	3	0	38			7
11	Tu	St. Barnabas		45		15	7	0	53	8			
12	W	Trinity Term ends		45		15	11	1	7	9			
13	Th			44		16	15	1	21	10			
14	F			44		16	18	1	37	11			
15	S			44		16	21	1	56	12			
16	F	4 Sunday after Trinity		44		16	23	2	20	13			
17	M	Aiban		43		17	25	D	rises	F			
18	Tu						26	9	a	55			15
19	W						27	10	40	16			
20	Th	Transf. Ed. K. W. S.					28	11	10	17			
21	F	Longest Day					28	11	31	18			
22	S						28	11	48	19			
23	F	5 Sunday after Trinity					27	morn		20			
24	M	Nativity of St. John Baptist					26	0	0	21			
25	Tu	[Midf. Day]		43		17	25	0	12	22			
26	W			44		16	23	0	23	23			
27	Th			44		16	21	0	34	24			
28	F			44		16	18	0	47	25			
29	S	St. Peter		44		16	15	1	3	26			
30	F	6 Sunday after Trinity		45		15	11	1	23	27			

Longest Day at Lond.
 is 16h. 34m. 4sec.
 allowing 9m. 16sec.
 for refraction.

Days	L. of D.	Day Inc.	D.breaks	Tw. ends	Sun East	Cl. aft. S.	7 Stars So.
1	16	14	8	30	7	15	2' 36"
6		22		38		18	1 46
11		30		46		19	0 49
16		32		48		20	bc. 13
21		34		50		21	1 17
26		32	odec. 2			20	2 21
							10 m 57
							37
							17
							9 58
							35
							15

No real night, but
 constant day
 or twilight.

New Moon, 3d, 27m. past 3 morn.
 First Quarter, 10h, 12m. past 4 morn. Sun enters ♋
 Full Moon, 17th, 17m. past 1 morn. 22d. 10h. 53m.
 Last Quarter, 24th, 36m. past 8 night.

1	M		3	45	8	15	23	n	7	1	m	5	28
2	Tu	<i>Visitation V.M. Cam. Com.</i>	46	14			3	2	29	29			
3	W	Dog Days begin	46	14	22	58	D	sets	N				
4	Th	<i>Translation of St. Martin</i>	47	13		53	9	a	5	1			
5	F	<i>Cam. T. e. Old Midsum.</i>	48	12		48	10	1		2			
6	S		48	12		42	10	38		3			
7	F	7 Sunday after Trinity	49	11		36	10	54		4			
8	M	<i>Oxford Act [Tho. à Becket]</i>	50	10		29	11	9		5			
9	Tu		51	9		22	11	21		6			
10	W		51	9		14	11	37		7			
11	Th		52	8		6	11	5		8			
12	F		53	7	21	58	morn			9			
13	S	Orf. Term ends	54	6		50	0	13		10			
14	F	8 Sunday after Trinity	55	5		41	0	45		11			
15	M	<i>Switbin</i>	56	4		31	1	28		12			
16	Tu		58	2		22	2	25		13			
17	W		59	1		12	D	rise		F			
18	Th		4	0	0	1	9	a	37	15			
19	F		1	7	59	20	50	9	47	16			
20	S	<i>Margaret</i>	2	58		39	10		2	17			
21	F	9 Sunday after Trinity	4	56		28	10	14		18			
22	M	<i>Magdalen</i>	5	55		16	10	26		19			
23	Tu		6	54		4	10	37		20			
24	W		7	53	19	51	10	48		21			
25	Th	St. James	9	51		38	11			22			
26	F	<i>Anne</i>	10	50		25	11	20		23			
27	S		12	48		12	11	45		24			
28	F	10 Sunday after Trinity	13	47	18	58	morn			25			
29	M		15	45		44	0	2		26			
30	T		16	44		20	1	7		27			
31	W		18	42		15	2	10		28			

Days	L. of D.	Day dec.	D. breaks	Tw. ends	Sun East	Cl. bef. S.	Stars So.
1	16	30	0	4	7	3	21
6		24		10		4	17
11		16		18		5	2
16		4		30			36
21	15	52		42			58
26		40	0	44	11	14	5

No real Night

New Moon,	11 ^h , 46 ^m . past	1 aftern.
First Quarter,	8 ^h , 55 ^m . past	8 morn.
Full Moon,	15 ^h , 29 ^m . past	0 noon.
Last Quarter,	23 ^h , 21 ^m . past	2 aftern.
Full Moon,	30 ^h , 00 ^m . past	11 night.

Sun enters ♍
22d. 17h. 17m.

1	Th	Lammas Day	4	19	7	41	18	n	0	fets	N
2	F			21		39	17	44	8	a	39
3	S			22		38		29	8		59
4	F	11 Sunday after Trinity		24		36		13	9		14
5	M			26		34	16	57	9		29
6	Tu	Transfiguration		27		33		40	9		43
7	W	Prs. Amelia born 1783		29		31		23	9		59
8	Th	[N. of Jesus]		31		29		6	10		19
9	F			32		28	15	49	10		46
10	S	Lawrence [Dog Da. e.]		34		26		32	11		23
11	F	12 S. af. Tr. Duc. Brunf. b.		36		24		14		morn	10
12	M	Prince of Wales born 1762		37		23	14	51	0		15
13	Tu	[Old Lam. Day]		39		21		38	1		20
14	W			41		19		19	2		56
15	Th	Assumption of V. M.		43		17		0		D rises	F
16	F	Duke of York born 1763		45		15	13	42	8	a	10
17	S			46		14		22	8		22
18	F	13 Sunday after Trinity		48		12		3	8		34
19	M			50		10	12	43	8		46
20	Tu			52		8		24	8		59
21	W	Duke of Clarence b. 1765		54		6		4	9		12
22	Th			55		5	11	44	9		27
23	F			57		3		23	9		49
24	S	St. Bartholomew		59		1		3	10		19
25	F	14 Sunday after Trinity	5	1	6	59	10	42	10		59
26	M			3		57		21	11		54
27	Tu			5		55		0		morn	26
28	W	Augustine of H.		7		53	9	39	1		6
29	Th	St. J. Baptist beheaded		9		51		18	2		25
30	F			10		50	8	56		D fets	N
31	S			12		48		35	7	a	25

Days	L. or D.	Day dec.	D. breaks	Tw. ends	Sun East	Cl. bef. S.	Stars So
1	15	22	1	12	1	22	10 35
6		6		28		42	15 6
11	14	48		46	2	0	9 57
16		30	2	4		18	40
21		12		22		33	25
26	13	54		40		48	10 34

First Quarter, 6th, 59m. past	2 aftern.	Sun enters \sphericalangle 22d. 13h. 49 m.
Full Moon, 14th, 31m. past	2 morn.	
Last Quarter, 22d, 23m. past	7 morn.	
New Moon, 29th, 4m. past	8 morn.	

1	F	15 Sunday after Trinity	5	14	6	46	8n	13	7	a	38	2
2	M	London burnt 1666 [Giles]		16		44	7	51	7		54	3
3	Tu			18		42		29	8		11	4
4	W			20		40		7	8		30	5
5	Th			22		38	6	44	8		55	6
6	F			24		36		22	9		28	7
7	S	Enurcbus		26		34		c	10		14	8
8	F	16 Sunday after Trinity		28		32	5	37	11		18	9
9	M	[Nativity V. M.]		30		30		14	morn			10
10	Tu			32		28	4	52	0	31		11
11	W			34		26		20	1	50		12
12	Th			35		25		6	3	7		13
13	F			37		23	3	43	4	25		14
14	S	Holy-Cross		39		21		20	D	rises		F
15	F	17 Sunday after Trinity		41		19	2	57	7	a	1	16
16	M			43		17		33	7	13		17
17	Tu	Lambert		45		15		10	7	25		18
18	W	Ember Week		47		13	1	47	7	40		19
19	Th			49		11		24	7	50		20
20	F			51		9		0	8	25		21
21	S	St. Matthew		53		7	0	37	9	0		22
22	F	18 S. aft. Tr. K. Geo. 3 cr.		55		5		13	9	46		23
23	M			57		3	0	10	10	51		24
24	Tu			59		1		33	morn			25
25	W	Old Holy Rood	6	1	5	59		57	0	7		26
26	Th	Cyprian		3		57	1	20	1	31		27
27	F			5		55		44	3	0		28
28	S	[Prs. Wirt. b.]		7		53	2	7	4	29		29
29	F	19 S. af. Tri. St. Michael.		9		51		31	D	sets		N
30	M	Jerome		11		49		54	6	a	24	I

Days	L. of D.	Day dec.	D. breaks	Tw. ends	Sun East	Cl. art. S.	7 Stars So.
1	13	32	3 2	3 5	8 54	6 27	0' 15" 4 m 53
6		12	22	19	40	21	1 52 35
11	12	52	42	32	27	14	3 34 17
16		34	4 0	43	16	8	5 19 3 59
21		14	20	54	5	2	7 4 42
26	11	54	40	4 5	7 54	5 156	8 47 24

First Quarter, 5th, 34m. past 11 night.
 Full Moon, 13th, 24m. past 7 aftern.
 Last Quarter, 21st, 44m. past 10 night.
 New Moon, 28th, 36m. past 5 aftern.
 Sun enters m 22d. 21h. 51m.

1	Th	Remigius	6	13	5	47	3	17	6	a	4	2
2	W			15		45		41	7		4	3
3	Th			17		43	4	4	7	35		4
4	F			19		41		27	8	18		5
5	S			21		39		50	9	17		6
6	F	20 Sunday after Trinity		23		37	5	13	10	28		7
7	M	[Faith]		25		35		36	11	46		8
8	Th			27		33		59		morn		9
9	W	Denys		28		32	6	22	1	5		10
10	Th	St. and Ca. T. b. O. Mic.		30		30		45	2	21		11
11	F			32		28	7	8	3	35		12
12	S			34		26		30	4	47		13
13	F	21 Sunday after Trinity		36		24		53		Drises		F
14	M	[Trans. K. Edw. Con.]		38		22	8	15	5	a	40	15
15	Tu			40		20		38	5	56		16
16	W			42		18	9	0	6	12		17
17	Th	Etheldred		44		16		22	6	34		18
18	F	St. Luke		46		14		44	7	4		19
19	S			48		12	10	5	7	47		20
20	F	22 Sunday after Trinity		50		10		27	8	43		21
21	M			52		8		49	9	52		22
22	Tu			54		6	11	10	11	11		23
23	W			55		5		31		morn		24
24	Th	[Crispin]		57		3		52	0	34		25
25	F	King Geo. III. acclamation		59		1	12	13	2	0		26
26	S	King Geo. III. proclaimed		7	14	59		33	3	29		27
27	F	23 Sunday after Trinity		3		57		54	4	57		28
28	M	St. Simon and Jude		5		55	13	14		D sets		N
29	Th			7		53		34	5	a	11	1
30	F			9		51		54	5	35		2
31	Th			10		50	14	13	6	15		3

Days	Le. of D.	Day dec.	D. breaks	Tw. ends	Sun East	Cl. aft. S.	Stars So.								
1	11	34	5	0	4	17	7	42	5	50	10	24	3	m	6
6	10	14	20	28	31	44	11	54	2	48					
11	10	56	38	38	21	37	13	15		29					
16	10	36	58	48	11	31	14	24		10					
21	10	16	6	18	57	2	15	18	1	52					
26	10	0	8	36	6	53	19	55		31					

First Quarter, 4th, 34m. past 11 morn.
 Full Moon, 12th, 8m. past 2 aftern.
 Last Quarter, 20th, 50m. past 11 morn.
 New Moon, 27th, 50m. past 3 morn.
 Sun enters ♄ 21d. 18h. 9m.

1	F	All Saints	7	12	4	48	14 ^s	33	7 ^a	9	4
2	S	Pr. Edw. b. <i>All Soul</i>	14		46		52	8	10		5
3	F	24 S. a. Tri. Prs. Sophia b.	10		44	15	11	9	34		6
4	M	K. W. land. [Mic. T. 1 re.]	18		42		20	0	54		7
5	Tu	Powder Plot 1605	19		41		4		morn		8
6	W	Leonard. Mich. Term be.	21		39	16	5	0	12		9
7	Th		23		37		23	1	27		10
8	F	Prs. Aug. Sophia b. 1768	24		36		41	2	38		11
9	S	Lord Mayor's day at Lon.	26		34		58	3	49		12
10	F	25 Sunday after Trinity	28		32	17	15	4	59		13
11	M	Martin	30		30		32	6	11		14
12	Tu	Mic. T. 2 r. Cam. T. di. m.	31		29		48		Drises		F
13	W	Britius	33		27	18	4	4 ^a	40		16
14	Th		34		26		20	5	8		17
15	F	Macbutus	36		24		35	5	46		18
16	S	[Hugh]	37		23		50	6	36		19
17	F	26 Sunday after Trinity	39		21	19	5	7	41		20
18	M	Mich. Term 3 return	40		20		19	8	54		21
19	Tu		42		18		34	10	13		22
20	W	Edmund K. and mart.	43		17		47	11	36		23
21	Th		45		15	20	1		morn		24
22	F	Cæcilia. Old Mart. day	46		14		14	0	59		25
23	S	Clement	47		13		26	2	23		26
24	F	27 Sunday after Trinity	49		11		38	3	51		27
25	M	Duke of Gloucester born	50		10		50	5	21		28
26	Tu	[Cathe. Mic. T. 4 re.]	51		9	21	2	6	55		29
27	W		52		8		13		D sets		N
28	Th	Mich. Term ends	54		6		23	4 ^a	45		1
29	F		55		5		34	5	49		2
30	S	St. Andrew	56		4		43	7	6		3

Days	L. of D.	Day dec.	D. break	Tw. ends	Sun East	Cl. aft. S.	7 Stars So.
3	9	36	6 58	5 15	6 44	5 13	16 14 1 m 10
6		18	7 16	22	37	7	0 50
11		0	34	29	30	2	15 43 30
16	8	46	48	35	24	4 57	14 57 9
21		30	8 4	42	18	53	13 49 11 a 44
26		18	16 48	48	12	49	12 20 23

First Quarter, 4th, 26m. past 3 morn.
 Full Moon, 12th, 55m. past 8 morn.
 Last Quarter, 19th, 41m. past 10 night.
 New Moon, 26th, 54m. past 2 aftern.

Sun enters 19
 21. 6h. 33m.

1	F	Advent Sunday	7	57	4	3	21	53	8	a	27	4
2	M			58		2	22	2	9	45		5
3	Tu			59		1		10	11	7		6
4	W			8	0	0		19		morn		7
5	Th				1	3	59	26	0	22		8
6	F	Nicholas		2	58			34	1	32		9
7	S			2	58			40	2	41		10
8	F	2 Sun. in Adv. Conception		3	57			47	3	49		11
9	M			4	56			53	5	0		12
10	Tu			4	56			58	6	12		13
11	W			5	55	23	3	7	23			14
12	Th			5	55			8		Drises	F	
13	F	Lucy		6	54			12	4	a	22	16
14	S			6	54			16	5	22		17
15	F	3 Sunday in Advent		7	53			19	6	35		18
16	M	Cam. Ter. e. O. Sapientia		7	53			21	7	53		19
17	Tu	Of. Term ends		7	53			24	9	12		20
18	W	Ember Week		8	52			25	10	33		21
19	Th							27	11	54		22
20	F							28		morn		23
21	S	St. Thomas. Shortest Day						28	1	16		24
22	F	4 Sunday in Advent						28	2	40		25
23	M							27	4	10		26
24	Tu							26	5	43		27
25	W	Christmas Day						25	7	11		28
26	Th	St. Stephen		7	53			23		D sets	N	
27	F	St. John Ev.		7	53			20	4	a	26	1
28	S	Innocents Day		7	53			17	5	45		2
29	F	1 Sunday after Christmas		6	54			14	7	13		3
30	M			6	54			10	8	32		4
31	Tu	Silvester		5	55			6	9	40		5

Shortest Day at Lond.
 is 7h. 44m. 17^{sec}.
 allowing 9m. 5^{sec}.
 for refraction.

Days	L. of D.	Day dec.	D. breaks	Tw. ends	Sun East	Cl. aft. S.	7 Stars Se
1	8 6	8 28	5 54	6 6	4 46	10 34 ⁷	11 a 2
6	7 56	38	57	3	43	8 31	10 40
11	50	44	58	2	41	6 17	18
16	46	48	59	1	40	3 54	9 56
21	44	50	6 0	0	39	1 25	34
26	46	oinc. 2	5 59	1	40	6	12

CHRONOLOGICAL NOTES, &c. in 1799.

Dominical Letter	F	Roman Indiction	2	Easter Day	Mar. 24
Golden Number	14	Septuage. Sun.	Jan. 20	Ascension Day	May 2
Epaet	23	Shrove Sunday	Feb. 3	Whit-Sunday	May 12
Cycle of the Sun	16	Lent begins	Feb. 6	Advent-Sun.	Dec. 1

ECLIPSES, &c.

THERE will be only two eclipses this year, and both of the Sun; but neither of them will be visible in this country.

I. MAY 4, the Sun is eclipsed, but invisible here, at 12h 15m night.

II. OCTOBER 28, the Sun is eclipsed, invisible, at 5h 36m afternoon.

MAY 5, the planet Mercury will transit or pass over the face of the Sun. Begins about half past 8 morn; ends about $\frac{3}{4}$ past 3 afternoon.

VENUS is an evening star till October 16; then a morning star to the end.

JUPITER is an evening star till May 30; then a morning star till Dec. 17; after that an evening star to the end.

ANSWERS to the ENIGMAS.

1 Watering Pot	6 Bar	Suppl. Enigmas.	5 Hair Pencil
2 Bloss	7 Name	1 Fear	6 H
3 Fame	8 Needle	2 Paint	7 or Pr. Happi-
4 Plague	9 Love	3 Palm	[ness.]
5 Box	10 or Pr. Bedfellow	4 Bee	

Answers to the Prize Enigma.

1. By Mr. Robert Bradley, Goddington.

If e'er at the altar of Hymen I kneel, A lawful companion to be, All the passion of love may my De- lia feel, And that wholly kindled by me.	In her blithsome young breast, where kind nature has stor'd [fine, That bright genius my parts to re- Such a <i>Bedmate</i> by me wou'd be ever ador'd; [be mine. Then, dear ladies, the prize wou'd
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2. By Mr. W. Clark, Cams-Hall, near Fareham.

With mind averse to wedded strife, Ralph, squandering his treasure, Had vow'd he'd never seek a wife To interrupt his pleasure. But, changing suddenly his mind, Press'd Sue to be his bride:	"What woman can you think to Indignant Sue reply'd, [find," "Wou'd with a sot agree to wed, (For Ralph was mostly mellow) "I shou'd indeed be loth to <i>Bed</i> "With any tipling fellow."
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3. By Edwin; to Miss Eliza Fox.

Why, Eliza, shou'd I Weep, languish, or sigh, Since Damon, you say, is possess'd of your love;	But endeavour to find A fair to my mind, Who will constant and kind to me prove.
---	---

Then, Eliza, to you,
As a 'over, adieu!
Still believe me your friend most ob-
sequiously;

And may you resign,
Soon at Hymen's shrine,
Your hand, and may Damon your
Bedfellow be.

4. *By Mr. John Rimmer, of Liverpool.*

One night, ingenious Fildes and I,
Laid violent hands on Madam Di,
And her Companion, who 'tis clear,
A *Fellow* partner does appear:
Whole practice long has been, 'tis
known,
To trace at large from town to town,
With mystic treasures, magic rings,
And spells, and such enchanting
things;

By which whole nights I've oft been
kept
From *Bed*, while others soundly
slept.
But since these culprits we have
found,
Stern justice says, they shall be bound,
And plac'd where future time, with
joy,
May see the fate of Lady Di.

5. *By Serena, Brock-street, Holborn, London.*

Will you admit me, Lady Di?
I am your friend, tho' seldom I
Take courage to appear
Among your learned votaries,
Whose shining talen's always please,
And witty ladies fair.
To guess your prize wou'd pleasing
prove,
Tho' very queer, I adent strove
The trophy to obtain:

But to make "Adam I, I he,
"And Eve too I, and I too she,"
Endeavours I thought vain.

Quite mortify'd, to bed I crept,
Without a *Bedfellow* I slept:
Bedfellow!—sure that's right!
Yes, without magic art or spells,
Your puzzle's solv'd, so, Mr.
Wells,
I wish you now good night.

6. *By Mr. Tho. Smart, Burton on the Wolds.*

Throughout this life's short chequer'd
maze,
How blest the swains who wed,

With every virtue, every grace,
A partner for their *bed*.

7. *By Mr. T. Weedon, Newbury.*

In the grave's dreary *Bed* we are
fellows: [proud:
Know this, and be humble, ye

Distinctions must cease, when the
spirit is fled, [shroud.
And the body's enwrap'd in a

8. *By Miss Eliz. Wright, of Flaxton.*

May every Pair whom Hs men joins,
Enjoy contentment sweet.

Then may the fair sex never fear
Six Cupid's darts to meet.

Other separate and ingenious answers to the Prize Enigma, beside those inserted in the Supplement, were given by the following ladies and gentlemen: viz. J. Boyley, John Brockbank, W. Butterman, E. Clarence, Tho. Coulton, Tho. Coulberd, Sarah Cowen, Wm. Cross, R. Dutton, Wm. Francis, jun. Mrs. Furnass, A. Gibbs, Jane Hales, John Hawkes, Tho. Heynes, Jonathan Horn, Rd. Hunter, James Mulcaffer, Parthenia, Petruschio, Rigdum Funnidos, Tho. Rimmer, Alex. Rowe, John Rutherford, Wm. Saint, T. Sawyers, Rev. I. Shackleton, Wm. Stainby, J. J. Thompson, John Waters, Joseph Wilson, Gilbert Young, &c.

GENERAL ANSWERS to the ENIGMAS.

1. By Mr. W. Butterman, of North Carve.

Having a little time to spend, An answer to th' Enigs I'll send, Just as I guess the same; And hope, Sir, if you find them right, You'll put them down in black and white, In Dia's page of Fame.	Plagu'd fore I was the first to scan; At length I found a <i>Watering-pan</i> Would free it from disguise. The rest, <i>Box, Needle, Love, and Bar.</i> I blush—but, Sir, I'll pass them o'er, And quickly <i>Name</i> the prize *. * <i>Bedfellow.</i>
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2. By Mr. Tho. Coulson, of Rookhope.

Ladies, I hope, you'll take it well, If all the riddles I shall tell. The first a <i>Watering-pan</i> will show; The next a <i>Blush</i> , as well you know; The 3d doth <i>Fame</i> so well conceal; The 4th a <i>Plague</i> you may reveal;	The 5th's a <i>Box</i> , as I explore; The 6th's a <i>Bar</i> to hold the door; The 7th's a <i>Name</i> I understand; The 8th's a <i>Needle</i> in your hand; The ninth is <i>Love</i> ; and, ladies fair, A <i>Bedmate</i> will the prize declare.
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3. The obstinate Cook; by X. Dino.

For shame! you make me <i>Blush</i> , Cries Doll the cook to Joe; <i>Plague</i> on your noise; for goodness Or I'll give you a <i>Blow</i> . [hush, Your flattery I hate, Of <i>Love</i> you've but the <i>Name</i> ; Such lingo might suit Nan or Kate, Or girls of meaner <i>Fame</i> .	Then get you gone, I say; The <i>Pot</i> I must attend; The <i>Bar</i> contains a girl more gay; 'Tis <i>Needles</i> time to spend. If Kate and Nan say no, Lay siege to <i>Arabella</i> ; And she will sure, for aught I know, Make a warm <i>Bedfellow</i> .
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4. An Old Bachelor's Address to Youth; by Mr. R. Dutton.

Hail! happy youth, possessing ev'ry grace,
 And mark on old greyheaded bach'lor's case;
 Who once was young, and anxious for a wife,
 Yet durst not venture on a married life.
 My vain and idle fears I *Blush* to own,
 But *Fame* has mark'd my *Name* where'er I'm known. 2
 Nature's strong impulse I resisted long, 3, 7
 Tho' reason always told me I was wrong.
 The bugbear was, that wedlock made us poor;
 Such scruples bring a *Plague* and *Bar* the cure. 4, 6
 Wifeless and childless I, with store of wealth;
 And what availeth all my hoarded pelf?
 Those who should *Love* me best, my death most crave; 9
 They'll spend my all, and dance upon my grave;
 Nor lay a stone, the stranger to apprise,
 By pointing out, where poor Pillgarlick lies,
 Aspiring youth, shun an old bac'lor's fate,
 And take a *Bedfellow* ere 'tis too late. 10

In *Needle-work* her evenings she will spend,
 You with your pipe, your bottle, and your friend;
 The *snuff-box* next is handed round the room;
 The *smelling-bottle* gives the flesh perfume.
 Mean time the hisping, prattling tribe appear,
 And play their gambols round their mamma's chair.
 For joys like these my god I'd now forego;
 But such a life a bach'lor cannot know.
 Sexes should join, as angels do above,
 Not to increase their wealth, but prove their love.

5. *The Old Maid; by the Rev. Mr. Ewbank, Thornton-Steward.*

Tho' I *Love* men of science, I ne'er yet could find
 A *Bedfellow*, just in all points to my mind. 9
 To the *Name* of a suitor I sometimes object, 10
 Whom, I *Blush* to acknowledge, I else would respect. 7
 The *Fame* of my fortune, my person, and parts, 2
 Brought e'en rustics to *Plague* me, and talk about darts: 3
 But such, for the future, I mean to exclude, 4
 By *Barring* my door, that they may not intrude. 6
 For unless I can find a right partner for life,
 I prefer an old maid to the title of wife.
 With my *Needle*, *Box-iron*, and books, I employ 5, 2
 Myself in the house, and I sometimes enjoy
 A walk in my garden, when flow'rs can be cund;
 And sometimes I rove my estate all around.
 To water my garden I have a small *Pan*:
 In short, I want nought—but a suitable man
 Thus something is wanting in all states below;
 And, sooner or later, we all find it so.
 True happiness here does not make her abode;
 But virtue, to find her, directs us the road.

6. *By Mr. John Fildes, of Liverpool.*

First, Allison, the tuneful bard, Whose polish'd lines deserve regard, With <i>Watering-pot</i> leads on the way; Then comes the <i>Blush</i> of Fanny Bay, With Bayley's <i>Fame</i> , well known to And <i>Plague</i> , caus'd by L. W. D. [me, My <i>Box</i> succeeds, and all will praise The <i>Bar</i> in Nichols's sweet lays.	All must admire the <i>Name</i> of Smart, And Woolston's <i>Needle</i> shews much art. Love well describ'd is by Miss Wright; The prize itself comes next in fight, The <i>Bedfellow</i> of Mr. Wells, That for true wit the rest excells.
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7. *A Lyric Epistle to Madam Diaria; by Rigdum Funidos.*

While others barter ease for state, In hopes of fondly growing great, Let me, with rosy chaplets crown'd, Stretch'd on the flow'r-enamell'd ground,	The vine's nectarious juices quaff, Alternate sing and love and laugh. For why, ye great ones, may not I Flirt in my turn with Lady Di?
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Why not in *Blushing* colours clad,
 Instead of *sables* dark and sad,
 Adorn my *Name*, and haste to
 prove
 The matchless ardor of my *Love*?
 With such a *Bedmate*! such a lass!
 Too soon the longest night would
 pass!

True as the *Needle* to the pole,
 I'd ne'er forsake my loving soul:
 One *purse*, one *Bar*, one common *Box*
 Would well supply all other locks.
 Heedless of *Fame*, or envy's dart,
 The *Plague* of many an honest heart,
 We'd steal thro' life, serene and gay,
 Then sink into our native clay.

8. *Ode to Content*; by Mrs. M. Furness, *Heddon-on-the-Wall*.

Hail! peace-inspiring heavenly queen,
 Whose charms outvie the rural scene,
 Or morning's *Blushing* ray;
 Descend from regions far remov'd,
 Where *Love*-creating joys are prov'd,
 And wisdom's child bears sway.

Forthwith *Apollo* strikes his lyre;
 The *Box* and *Bar*. with keen desire,
 Unite in harmony;
 Which raise on *pinnions* thro' the
 Imagination, sportive maid, [shade,
 To courts above the sky.

When sounding *Names* thy worth
 proclaim,
 Borne on pinions of swift *Fame*,
 Soft flowing from the tongue;
 The soul enwrap'd in tranquil mood,
 Feels joy run thro' each *Bedmate's*
 And accents yet un Sung. [blood,

There flowers spontaneous ever
 spring,
 And vernal zephyrs balmy wing
 Enlivens fill the hour;
 No *Wat'ring-pan* is call'd in view,
 Nor baleful *Plague*, with livid hue,
 Extends malignant power.

9. *Address to an Old Coat*; by Mr. Rob. Sanderson, *Steeple Aston*.

Un^{pl}agu'd with life's unnumber'd
 ills,

Politeness, humour, ev'ry grace
 That 'orns the mind, and decks the
 face:

With learned nostrums, potions, pills,
 By many dearly bought;
 With joy I touch the lyre again,
 And sing in linsley wolfey strain,
 Of thee, my old *drab* coat.

This truth we daily see.
 But 'tis when in thy better days
 Thou claim'st a portion of our praise,
 And dealt thy bounties forth;
 For should I give for such a coat
 As thou art now, one single groat,
 'Tis more than thou art worth.

Winter, the savage, thrice has rag'd;
 With snow and rain thou hast engag'd;
 And firmly brav'd rough weather;
 Now nibbled by that rat, old time,
 (Such luck betides the weight of
 rhyme!)

What mortal ever yet could find
 A man of wit and sense who thin'd,
 Equipt in flowing tatters?
 See *Roicio* hurries thro' the streets,
 Derided, *cuff'd* by all he meets;
 For who the ragged flatters?

Thou scarce canst hold together.
 What then, tho' in this tatter'd state,
 Thou hast but met the common fate
 That ev'ry coat attends;
 Thy *Name*, thy praise shall ne'er be
 pass'd

But *Dulbert*, dress'd in superfine,
 Has wit and sense almost divine,
 He too has genuine humor;
Fame worships him with true devo-
 tion,

Un Sung, white sickle life shall last,
 And memory befriends.

For all th' attractive excellence
 Of sparkling wit, and solid sense,
 We surely owe to thee;

She *Loves* to dwell on ev'ry mo-
 tion,
 And spread a flatt'ring rumor.

Full well I recollect the time,
 When first I wore thee, in thy prime,
 My humor pleas'd the many;
 I *Blush* to say how chang'd my tale,
 That humor's grown quite flat and
 stale,
 Scarce worth a new-coin'd penny.
 Obeisance then I never mis'd,
 Off went the hat, with eager fist,
 Of tailors, coblers, bakers;

That cov'ring off they scorn to
 pull;
 But keep it now glu'd to the skull,
 As if they'd all turn'd quakers.
 All day could I thy praise prolong;
 Let it suffice to end my song,
 With this assertion true,
 That each idea, ev'ry thought,
 Gains lustre from a handsome coat.
Companion old, adieu.

10. *To Miss Eliza Fox; by Mr. Tho. R. Stuart.*

In a dirty, dull villa, scarce deserving the *Name*,
 In an humble built *Box* I my residence hold;
 Where I labor to live in the annals of *Fame*,
 Not ambitious of pow'r, or o'er anxious for gold.

Each morn I inhale the fresh breeze from the hills,
 As I trip with delight o'er the blossom-deck'd plain,
 Or stray by the side of the crystalline rills,
 That bound, by their course, my paternal domain.

In the heyday of youth, when the blood in full tide
 Bids defiance to sorrow, and laughs at dull care;
 Can gay six and twenty feel dormant to pride,
 When applauded at once by the witty and fair.

No—I own it with pleasure, your praises can warm,
 Bid fancy exulting sweep louder the lyre;
 Once more, led by hope, grasp the magic-fraught charm,
 And the muse of the grove to the laurel aspire.

Accept then, sweet maid, without *Blushes*, the lay,
 In return for the favor by beauty bestow'd.

May misfortune's dark cloud ne'er o'ershadow your day,
 Or the *Plagues* of the World place a *Bar* in your way!

When your hand you resign to some high-favour'd youth,
 May your highest-form'd wishes reality prove!

Hymen point, as the *Needle*, to honor and truth,
 And no end, but with life, to the raptures of *Love*.

N.B. Enig. 1 is *Watering-pot*, and the prize *Bedfellow*.

11. *The Happy Marriage; by Mr. R. Walker, of Bywell.*

When Damon, fir'd with ardent *Love*,
 Young Celia did his suit approve,
 She lik'd the shepherd swain:
 Without a *Blush* to him resign'd,
 In *Nameless* raptures both were join'd
 In Hymen's silken chain.

Thrice happy they whom love unites,
 In fond attachment and delights,
 Who feel the partial flame!
 No mutual wrongs, no jealous ire,
 No ca'ummies at all conspire,
 To blast their rising *Fame*.

With *Watering-pan* across the green,
 Now Celia trips with graceful mien,
 To bleach the linen fair;

A *Box*, with *Needlework* employs
 Those hours oft spent in empty toys,
 Beneath a woman's care.

No *Bar* obstructs their nuptial joys,
 No jealousy their peace destroys,
 Or *Plagued* their strife molest;

But down the stream of life they glide
 While gentle breezes still the tide,
 And lull their cares to rest.

Other ingenious general answers to the Enigmas, beside those inserted in the Supplement, were given by the following ladies and gentlemen, viz. J. Ashcroft, J. Bayley, John Brooksbank, J. Cairns, J. Carwithen, Tho. Coulson, Tho. Coulterd, Sarah Cowen, Wm. Cross, A. Gibbs, Miss Green, J. H., Miss A. H—g—t, Jane Hales, J. Hatfield, T. Heynes, Jos. Hindson, Da. Lewis, A. Morris, Tho. Perrol, Da. Roberts, R. Robinson, Alex. Rowe, J. Rutherford, Wm. Saint, J. Savage, Theodisia, J. J. Thompson, W. Ward, Wm. Wilson, Eliz. Wright, &c.

ANSWERS to the REBUSES and CHARADES.

Rebuses.

Diary.	Sup.
1 Lincoln	1 Stone
2 Smart	2 Milton
3 Malice	3 Chat
4 Prize	4 Clifton

Charades.

Diary.	Sup.
1 Boatswain	1 Lighthouse
2 Damage	2 Courtship
3 Campbell	3 Warsaw
4 Ribband	4 Chairman

1. By Mr. W. Butterman, North Cave.

Lincoln, Malice, Prize, and Smart, | Boatswain, Damage, and Campbell,
The rebuses I think impart; | And Ribband the charades will tell.

2. By Mr. Tho. Coulson, Rookhope.

Silence, ye fair, while I declare | A Prize I see, a Boatswain free;
Each rebus and charade; [heart; | With Damage and Campbell;
There's Lincoln, Smart, with all my | A Ribband rare adorns the fair;
The next on Malice made. | So till next year farewell.

3. The Frigate and Privateer; by X. Dino.

Ye fav'ring gales, your aid impart, | Let Britons o'er their foe prevail,
While Campbell, Lincoln, and friend | And Damage every Rib and sail,
Yon privateer attack: [Smart, | Their Malice to bring down: [not,
See how she dances on the tide, | Come Boatswain, gunner, and what
With all the marks of Gallic pride, | Another thund'ring broadside shot,
Her prize to carry back. | And she is all our own.

4. By the Rev. Mr. Erbank.

Boatswain, Damage, Campbell, Ribband, | Lincoln, Smart, and Malice added,
Half my subject will explain; | Surely I the Prize may gain.

5. The Unfortunate Tar; by Mr. John Fildes.

Jack Campbell was as Smart a lad | A Gallic frigate hove in sight,
As Lincoln e'er could boast; | And made his ship a Prize;
And Boatswain of a ship he went, | By which great Damage Jack sustain'd,
To cruise along the coast. | And now in prison lies.
A Ribband and a kiss he gave | Where he, poor tar, I fear must be,
His Poll, then bid adieu: | Till this dread war is o'er;
But oh, the Malice of a foe, | Soon may blest peace return again,
He soon had cause to rue, | And wait him to our shore.

6. By Mr. A. Morris, Liverpool.

Near Lincoln city, | No Malice has she,
Lives Nancy so pretty, [tend, | From Damage she's free,
For whom Campbell and Smart do con- | And on honour she much does depend.

But, alas! a *Boatswain*,
Who no *Prize* did gain,
Stept in, the dispute to decide;

With *Ribbands* all white,
And a ring that is bright,
Takes *Nancy* to be his dear bride.

7. *By Narcissa.*

Malice avoid, dear ladies, as you prize
Your peace, your comfort, or the
heav'nly joys. [way,
If, as yu journey, *Lincoln's* in your
Pray call on *Campbell*, and on *Smart*,
on *Gay*.

No *Boatswain's* whistle will assail
your ear, [cheer.
Nor *Damage* will ensue, but friendly
Deck'd with your *Ribbands* and your
fans so neat, [sweet.
Their garden will afford a nosegay

8. *By Mr. Tho. Rimmer, Schoolmaster.*

Could I compose like *Mr. Smart*,
Or *Campbell*; I with all my heart
On subjects more sublime would
write,
To please a friend some winter's
night.

On *Dia's* page I would appear,
Solve all the mystic quibbles there.
Did *Prize* or *Damage* prove my strain,
Or *Lincoln*, *Ribband*, or *Boatswain*,
Or *Malice*, I would clear the matter.
Believe me *Di*, I do not flatter.

9. *By Mr. Wm. Saint, Norwich.*

For once, dear ladies, let me try,
Charades and rebuses to spy.
These last I see, without disguise,
Are *Malice*, *Lincoln*, *Smart*, and *Prize*.

Damage, *Ribband*, with *Campbell* too,
Just three charades will bring to view.
Hark! sure I hear the *Boatswain's* call—
Adieu! sweet girls, I've told you all.

10. *On Lady Di; by Mr. Wm. Wells; being the Remainder of his General Answer to the Enigmas, Rebuses, &c.*

No *Malice* she to any bore,
When she to *Lincoln* went:
A *Prize* to *Smart* in drefs before,
To there was never sent.
But bark! the *Boatswain* shouts ayast!
Or we shall *Damage* take;
Belay the bowlings, brace all fast,
Awake, *Campbell*, awake.

The captain's lady by him lar,
With *Ribband* round her head,
He calls the mate, and thus did say,
Why don't you quit your bed?
Jump up, and lash the helm alee,
And let the ship lay to;
We're in great danger I can see,
And nothing you will do.

11. *By Mr. Joseph Wilson, of Black Callerton.*

Lincoln, *Malice*, *Prize*, and *Smart*,
Every rebus will impart.

The *Boatswain*, *Ribband*, and *Campbell*,
With *Damage*, will each charade tell.

Other ingenious answers to the Rebuses and Charades, beside those inserted in the Supplement, were also given by the following ladies and gentlemen, viz. *J. Ashcraft, J. Boyley, J. Brooksbank, I. Brown, John Cairns, J. Cornwitten, Tho. Cullson, J. Cowill, Sarah Cowen, Wm. Cross, R. Dutton, Jane Green, J. Hawkes, A. H-g--r, Jane Hales, Sam. Harvey, J. Hatfield, Tho. Hindmarsh, Jos. Hindson, J. Horn, Rd. Humber, Th. Kendray, Da. Lewis, T. Lindley, Wm. Newby, Tho. Perroll, J. Rimmer, Da. Roberts, R. Robinson, Alex. Rawes, John Rutherford, J. Savage, Jo. Sh-w, Eliza Still, Theodofia, J. J. Thompson, Tho. Thorpe, Wm. T. W., W. Ward, T. Weedon, Wm. Wilson, Eliz. Wright, &c.*

ANSWERS to the QUERIES.

QUERY I. answered by Mr. Alex. Row, Reginnis.

When love is real and well founded, then absence will doubtless increase it. But if it be feeble and wavering, absence will often extinguish it; for, according to the old adage, "Out of sight, out of mind."

Mr. John Bransby says—Absence is found, for a short time, to increase the flame of love. But if reason can be allowed to exercise its part, and aid prudence in lengthening the continuance of that absence, the force of love will be abated, and it will either subside into a rational and consistent affection, or be entirely extinguished.

Mr. Thomas Crosby, of York, says—That a long absence has a tendency to diminish love, rather than increase it, is a position I think that cannot be controverted. Fresh amusements, fresh pursuits, and fresh objects, act upon the fickleness of the human mind, in such a manner as gradually to extinguish the most ardent love; while, on the contrary, a short absence has not that power, or even to obliterate the least impression which love has made in the tender heart.

Mr. Ralph Dutton, of Kingsley, says—The answer to this query depends on the degree of love. Where the degree is moderate, absence may diminish it, but when the passion is deeply rooted in hearts of sensibility, it will certainly increase it; as the same degree of wind which will blow out a candle, will cause a large fire to burn with increased fury.

Mr. J. Hatfield, of Mansfield, says—That short absence doubtless enlivens the passion of love. A sagacious author (Lord Kaimes) says, "Obstacles to gratification never fail to augment and inflame a passion." And another,

"All impediments in fancy's course
Are motives of more fancy." SHAKESPEARE.

But in long absence, love, like every other affection of the mind, produced by habit, gradually will decay; though perhaps least with a party remaining where the tender connection was first formed, and its growing satisfactions most sensibly felt.

Mr. Jos. Hindson, of Lincoln, says—When once true love is implanted in the breast, scarcely any thing but death is able to eradicate it; and in that case I may venture to assert that absence rather increases than diminishes love. But when only a slight affection, or a sudden gust of passion has seized the breast, the heart, ever prone to novelty, will, by time, absence, and the sight of other objects, be diverted from the creature of its once esteem. So that in this case absence diminishes love.

QUERY II. answered, by Mr. Tho. Coulson, Rookhope.

Shrove Tuesday is always the day before Ashwednesday or first day in Lent, on which day persons formerly went to confession, during which time they abstained from eating of flesh. Some of the ancient fathers mention it as a practice of some standing. It was a custom among our ancestors to have both pancakes and collops on that day, or rather the collops on the Monday or day before, which in some parts is still called Collop Monday.

Mr. Ra. Dutton says—Shrove Tuesday, being the day immediately preceding Lent, it was employed by the ancient Christians in confessing their sins, thereby to qualify themselves for a more religious abstinence. In process of time this custom changed to that of mutual invitations, to take leave of flesh-meat, by introducing pancakes and the like; and the festival ended with various sports as at present.

Mr. Wm. Newby, of Barningham, resolves it thus from Hutchinson's History of Northumberland:—"This seems to be derived from a custom in the refectory of religious houses, where the table was spread on this day for all pilgrims, travellers, and visitants. In Newcastle, Durham, and other places, the great bell of the church is tolled, the servants have holiday, and whoever partakes of the pancakes must fry them. In Mr. Brand's Appendix to Bourne's Popular Antiquities, he says, a kind of pancake-feast preceding Lent was used in the Greek church, from whence probably we have borrowed it."

QUERY III. answered.

On the subject of this query, like most others, there are different opinions, a specimen of which may be as follows:

Mr. Tho. Crosby, of York, says—Hope is much more conducive to happiness than enjoyment, as may be easily proved. "It is with life as with the golden bird sent by the fairies to a young princess: the bird settled at thirty paces from her; she goes to catch it, advances softly, is ready to seize it; the bird flies thirty paces further; she passes several months in the pursuit, and is happy. If the bird had suffered itself to be taken at first, the princess would have put it in a cage, and after a week's enjoyment would have been tired of it. This is that bird of happiness which we incessantly pursue; we catch it not, and are happy in the present, because we are secure from disgust."

The Rev. Mr. Furness says—This query is very evident, and every one can answer for this truth—the enjoyment of any thing falls far short of the expectation; but "Hope is the foundation of our rejoicing."

Mr. Wm. Marrat, of Lincoln, says--Enjoyment is certainly the most productive of human happiness: for as all our happiness depends on something which gives us pleasure when we have it in possession, it is the enjoyment of it alone that can make us happy. Besides, hope only leaves the mind in suspense, while enjoyment is the completion of all our desires.

Mr. T. Turner says--The enjoyment of any pleasure, which comes under the denomination of that of human, very rarely affords us a degree of happiness equal to that which hope leads us to form of it while we have it to expect. So that hope affords us a degree of happiness, which enjoyment, by undeceiving us, diminishes or takes away. Therefore hope is truly said to be the more conducive to human happiness.

QUERY IV. answered by *Mr. John Bransby, of Ipswich.*

In consequence of the eccentricity of the earth's orbit, the distance of the sun from the earth varies, as does therefore its apparent diameter; and in consequence of the eccentricity of the moon's orbit, her apparent diameter also varies; and as this latter eccentricity is proportionably greater than the former, the moon's apparent diameter varies more than the sun's does. When the moon is in perigee, her diameter is greater than the sun's, especially if the earth be at the same time in its aphelion; and, on the contrary, when the moon is in apogee, and the earth in perihelion, the moon's diameter appears less than the sun's. Hence it happens that, if there be a central eclipse of the sun when earth and moon are in or near the former situations, the eclipse is total; but if the central eclipse happen when they are in or near the latter situations, the eclipse is annular, a bright circle near the sun's limb being visible, because then his apparent disk exceeds that of the moon.

Miss Sarah Cowen says--In Dr. Hutton's Dict. p. 376, vol. 1, according to Kepler the greatest apparent diameter of the sun is $31' 4''$, and the least diameter of the moon is $30'$; consequently the sun's diameter may exceed that of the moon's by $1' 4''$.

NEW ENIGMAS.

I. ENIGMA (812), by *Mr. Wm. Anderson, Crutched Friars.*

When man was first created on this earth,
I from that early period took my birth.
No noxious deeds did then my state molest,
While inward purity adorn'd each breast.
But soon, alas! degenerate I became,
And on a woman then was laid the blame:

A frail excuse, too much practis'd in life;
 Man often errs, and then he blames his wife.
 In days of yore I frequently was found
 Among the rich; my fame did then resound:
 Now disregarde, shameful to relate,
 Find more enjoyment in a lower state:
 No pride, no riches there my mind beguile;
 Serene I sit, and bid the heart to smile.
 Where I reside, I do the bosom warm,
 And give domestic life its sweetest charm;
 Dispel internal troubles from the breast,
 And soothe each sorrow when the mind's distress.
 But soon the charms of youth and love decay,
 If you forsake me, and begin to stray.
 Ye myttic bards who shine in lists of fame,
 Record my worth, and emulate my name.

II. ENIGMA (813), by Mr. John Bayley, Schoolmaster.

<p>Ye ladies fair, say what am I, Distinguish'd by my crimson dye. Most likely 'tis I took my rise From mother Eve in Paradise. She, tasting the forbidden tree, [me. Gave birth to Shame, and Shame bore Yet I from diff'rent causes rise, Seize innocence by quick surprize, And tender souls I oft unhinge, But shameless wretches seldom tinge.</p>	<p>The pink, the tulip, nor the rose, Can a more lovely hue disclose. The fairest nymph upon the plain To put me on need not disdain. The bards in metaphors adorn With me, the rose and rising morn. I glowing rise, but short's my stay, For instantly I fade away. Now, fairest ladies, I suppose [close. You'll from these hints my name dis-</p>
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III. ENIGMA (814), by Mr. W. Clarke, of Cams Hall.

<p>Ye sprightly fair, whose ready wit Such latent mysteries can hit, As clearly prove your noted fame, Deserving plaudits for the same, For one that ever waits on you; * * *</p> <p>In whose devotions I have part, And help to form aright the heart; Your counsels keep, nor ever stray Or deviate from the virtuous way! But strife and discord wisely shun; By such, whole kingdoms are undone. I constantly attend the court, But ne'er with citizens resort. And in the country I appear Ev'ry season of the year.</p>	<p>You'll see me now within an hour, Attending at your parlour door; Nor is there need to bid me come, Before I'm with you in the room, There so convenient in my station, You use me as you find occasion. Nay 'tis confess'd without my aid, This pond'rous earth had ne'er been Yet after all my boasted worth, I made 'Twas base deceit that bro't me forth; And I in Grubstreet have been found, Where ambidextrous frauds abound. But for all this, you will confess, I was esteem'd ne'er the less. Hence I a mystery remain, For you, dear ladies, to explain.</p>
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IV. ENIGMA (815), by Mr. Tho. Coulson, of Rookbofe.

Ye lovely fair, whose piercing wit
On dark enigmas often hit,
Awhile I pray attend,
To one whose sweetly pleasing sway
Your willing hearts with joy obey,
And is your only friend.

When pangs of sorrow rend your
breast, [rest,
And long have robb'd your soul of
On me you still rely;
For heav'n in mercy lent me here,
And bade me wipe the bitter tear
That streams from sorrow's eye.

When you're by tyrant pow'r oppress'd,
Friendless, afflicted, and distress'd,
By me you're taught to rise;
And conscious of your heav'nly birth,
To scorn the narrow bounds of earth,
And claim your kindred skies.

'Tis mine to pierce the dismal gloom,
Where sorrow weeps o'er friendship's
And hail that happy shore, [tomb,

Where pleasure shall for ever reign,
Where virtuous love unites again,
And friends shall part no more.

Midst tort'ring racks and scorching
fires,
The hero whom my voice inspires,
In conscious virtue brave,
Triumphantly resigns his breath,
And plucks the sting from vanquish'd
The victory from the grave. [death,

If yet, ye lovely fair, in vain
You study for my hidden name,
Another hint I'll give;
To heav'n I lead, but, ladies, there
I cannot be; earth is my sphere,
And often you deceive.

Then may my kind, my gentle pow'r
Sustain you in that dreadful hour,
When Nature shrinks aghast; [close,
When death's cold hand these eyes shall
And your long pilgrimage of woes
Shall have an end at last.

V. ENIGMA (816), by Mr. John Fildes, Liverpool.

Dear ladies, let me now prevail
Upon you, just to hear my tale;
And when my name you have found
out,
Which soon you will, there is no doubt,
You'd own you would not wish to see
Your lovely heads bereft of me;
For should that happen, I protest,
Your beaux of you would make a
jest.
The good man claims me for a friend,
Tho' I on thieves and rogues attend;
And oft, like them, it is my doom,
Within the prison's dismal gloom,

To be in custody confin'd;
But I'm so harden'd I ne'er mind,
The sportsman with his dog and gun,
Without me would have little fun.
I inland navigation aid,
And am to guard you often made.
I've for religion no respect;
Yet constantly the church protect.
I much addict'ed am to fight,
And in hot wars take such delight,
I to the field of battle go,
And boldly face each haughty foe;
And very active in a duel,
But be assur'd I'm no ways crua.

VI. ENIGMA (817), by I. H. Cantabrigiensis, answering the Enigmas of last Year.

Like Apollo's fam'd Sybil, who from her dark cell,
In terms, tho' ambiguous, the fortune could tell
Of princes and states; so I, with more ease,
Give out my responses on Sybilline leaves:

Or rather require responses from those
 Who torn o'er the leaves these responses compose.
 Yet, not like the Sybil on tripod I sit;
 A throne, or a chair, or a stool will me fit:
 Nor need you libations to pour on the ground
 From the patera ancient while I'm to be found.
 For sometimes a *Water-pot's* shape I assume,
 Nor *Blush* for my *Fame*, any more than at Rome
 Did the consul when call'd to the state from the plough:
 A *Plague* then was power, whatever 'tis now.
 To unlock all my treasures, no false *Key* you need:
 To my *Name* point the *Needle*, and oft you'll succeed.
 And sometimes, tho' coy, a *Bedfellow* I *Love*;
 Yet, not fixt to one, among many I love.
 Like nature I'm various, curious as art;
 And science to me all her charms can impart.
 Nay, the world's all my own—every object is mine;
 I can twinkle with stars—with the sun I can shine;
 Can change with the moon, or can change with the fair;
 And, tho' fixt as the poles, I am free as the air:
 And, like *Pitoeus* of old, at my pleasure, with ease,
 I can vary my form, and appear what I please.
 But one short word more, and then ladies farewell!
 Your *Di'ry* is often my *Sybilline* cell.

VII. ENIGMA (818), by Mr. Richard Hallilay, London.

Before Rome's city e'er was built,	When lord imperious does command,
Or ancient Greece was in great pow'r,	With threat'ning speech, in anger
Was I in being, giving birth	made,
To male and female ev'ry hour.	His servant man to make more speed,
Upon my travels long I've been,	The man oft asks for me to aid.
Without once stopping day or	Both sick and lame I often kill,
night;	Yet often too I both do cure,
And were I but to rest awhile,	And shall continue so to do,
I forely would mankind affright.	As long as doth the world endure,

VIII. ENIGMA (819), by Mr. H. Mauvprè.

Good ladies awhile your attention bestow,
 And hear my surprising relation;
 (My name I conceal for your answers to shew)
 'Tis vain, let me tell you, to search high or low,
 I'm not to be found in the nation.

In Egypt I dwell, at the end of a cave,
 In solitude, silence, and pleasure;
 I'm known to the miser, I wait on the knave,
 And (tho' it may seem rather strange of a slave)
 I constantly add to his treasure.

Invisible always, yet still may be seen
 In tears, and partaking of trouble;
 And tho' I've the honour to visit the queen,
 So long in distresses severe have I been,
 My body is nearly bent double.

When Jupiter tipples his nectar divine,
 And Momus increases the mirth,
 I go without bidding, and finish their wine,
 For sure in the heavens a place should be mine,
 Who dares to stand chief of the earth.

But why should I hope, in a mystical guise,
 To secrete myself from your view,
 Since thro' the whole year I am seen in the skies,
 And always with thunder and tempests arise,
 Or lie in the midst of the dew.

IX. ENIGMA (820), by *Miss Maria Middleton, of Eden.*

A hero, if that brilliant name
 Actions of worth and merit claim,
 Joins th' enigmatic list;
 No upstart he, of modern date;
 With man he did originate,
 With him doth still exist.
 Nay after him I still shall be,
 Such is my durability,
 Not Death himself subdues me;
 For where old John, at toll of bell,
 Repairs to form the silent cell,
 With sacred dread he views me.
 I'm not to lordly man confin'd—
 Beast, fishes, birds of ev'ry kind,
 I equally befriend;
 'Tis I that strength and beauty give;
 To bid sweet health and vigour live,
 Is my design and end.

Yet other feats I can reveal;
 Let modern warriors hear the tale,
 And cowards spurn disdain;
 For Scripture doth the fact record,
 How I without or staff or sword,
 A thousand men did slay!
 If more you'd learn concerning me,
 Take off my head—a thing you'll see,
 Both singular and odd;
 Which, if its tail away you take,
 Will, so revers'd, no scruple make,
 Ev'n to deny a God!
 Another hint, ladies, to you,
 'Tis wondrous strange, but really true,
 From me you did descend!
 And still your constant friend I prove,
 By me you live, by me you move,
 I cause the knee to bend.

X. OR PRIZE ENIGMA (821), by *Mr. T. R. Smart.*

Inspir'd as erst to win a partial smile,
 From you the boast and glory of the isle,
 Ye matchless fair, once more the youthful muse,
 With ardor warm, her much lov'd task pursues.
 O might her pow'r but equal her desire,
 And fervid genius wake the willing lyre!
 With Shenstone's beauties should the image glow,
 Nor Pope's sweet numbers more harmonious flow.

Fruitless the wish! stern fate the boon withstands,
 And gives the palm to more deserving hands:
 Yet may the wish supply where merits fail;
 Hope whispers sweet, and bids pursue the tale.

In dark eternity, ere time begun
 To count his progress by an annual sun,
 Long ere th' Almighty fram'd this grand design,
 In heav'n's bright realms I boast my birth divine,
 With num'rous myriads of seraphic race,
 Spann'd countless ages, and a boundless space;
 When at his last best work th' ethereal ray
 Stamp'd his own image on the moulding clay,
 Me, as high boon, the deity bellow'd,
 Unequal'd gift, and worthy of a God.

Thence thro' the ages of revolving time,
 In every country, and in every clime,
 Where'er th' effulgent sun's broad eye surveys,
 And cheers the nations with alternate rays,
 With sons from fires successively take place,
 In all the branches of the earth-born race,
 But not alike in all my pow'r is skew'd,
 Not with like splendor do I grace my throne;
 In some, my heav'nly flame so nearly out,
 That my existence almost is a doubt;
 In others, all my innate beauties show,
 My richest tints in vivid colours glow.
 With you, fair lovers of the tuneful art,
 Gay I appear, and act a matchless part.

Led on by me, o'er Greenland's dreary coast,
 Where nature chills with one eternal frost,
 Rude Boreas with unceasing fury roars,
 And icy mountains block her gloomy shores:
 Or ere Italia's soft enchanting plains,
 Where summer with unrivall'd splendor reigns,
 Where cloudless skies and brighter suns appear,
 Thro' each unvarying season of the year:

In torrid climes, where surgy Neptune laves
 A coast of horrors, and a land of slaves,
 The Negro see, in Europe's crimes unvers'd,
 Torn from his hut by bloody hands accurs'd,
 While I to madness fire his bursting brain,
 Paint the lost pleasures of his native plain,
 In magic vision to his mind and eyes
 Wife, parent, children's heart-piercing cries!
 See, nature fails—his languid eye-lids close,
 He raves for death to end his num'rous woes!

Alike in joy as grief I take a part,
 And give delight, as well as pain the heart:
 My merit such, did I my aid withhold,
 Not all conjoin'd could this slight veil unfold.
 Ye beauteous rivals for Diarian fame,
 Call forth my latent pow'rs, and show my name,

NEW REBUSES, CHARADES, and QUERIES.

I. REBUS, by Mr. John Bayly, Schoolmaster, Middleton.

What greatly contributes a man to keep warm,
 And helps the French nation our trade much to harm,
 Join a wicked old hag, with one letter left out;
 Then the name of a town you'll find without doubt,
 Where an author resides, of judgment profound,
 Whose works to his honour and praise much redound.

II. REBUS, by Mr. John Fildes, Schoolmaster, Liverpool.

<p>A lofty tower, built in vain, He who was by his brother slain, A part of life, in mirth oft spent, He who was out of Sodom sent, The fickle mother of mankind,</p>	<p>And what you in an egg may find; Of these the initials join, and you Will have a bard excell'd by few [light; Whose works are read with great de- Long may he to the Diary write!</p>
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III. REBUS, by Mr. Tho. Hindmarsh, of Rusheynead.

My name just consists of five letters you'll find;
 Thro' me was entail'd a great ill on mankind:
 My head separated, the rest will explain
 An innocent martyr unrighteously slain;
 One letter more cut off, and then you will see
 An idol, to which thousands once bow'd the knee.

IV. REBUS, by Mr. Tho. Rimmer, Schoolmaster, Standish.

The beginning of March, and the middle of May,
 One third of the noise of a raven or crow,
 When join'd to one half of the end when you pray,
 Will name a sweet fair one, whom Diary can show.

I. CHARADE, by Mr. W. Clark, Cam's Hall.

<p>Productive first of various good, For man and beast supplying food. My next, th' effect of cold or fear,</p>	<p>Or from the feather'd tribe we hear. My whole strikes terror to the heart, And awful rends my fust apart.</p>
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II. CHARADE, by Mr. Tho. R. Smart.

<p>Thro' out creation's ample space, Earth, water, fire, and air, Whate'er the mind's vast eye surveys, My first implies a share. My next, an atom if you please, The smallest of the small,</p>	<p>Yet, vast as fancy, by degrees, Describes and covers all. My whole excites your smiles and Can please you, and annoy; [tears, The cause of all your hopes and fears, The source of grief and joy.</p>
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III. CHARADE, by Mr. John Smith, Alton Park.

Brave conquerors in my first, of old,	The lady who looks wan thro' years
Were drawn from battle home;	Whose face no redness shows;
Out of my second, silver, gold,	By using of my whole appears
And copper too do come.	As fresh as any rose.

IV. CHARADE, by Mr. Tho. Woolston, Attisbury.

On yon steep cliff, which shades that dismal dell,
My sportive first, behold undaunted play;
Lo in my next the loves for ever dwell,
And hand in hand with Delia see them stray.

My whole, defenders of the charming fair,
Familiar oft enjoy her warm embrace.
Might love-sick Strephon such dear favours share,
He then would envy none of human race.

I. QUERY, by Mr. John Brooksbank.

Required the origin and true meaning of the old adage "John Bull."

II. QUERY, by Mr. Ra. Dutton.

Whether are early or late marriages most conducive to human happiness?

III. QUERY, by Mr. T. Hornby.

What is the reason that the quantity of rain, caught in a rain-gage, is always greater at the bottom of a hill or building, than at the top of them?

IV. QUERY, by Jacobus, of Norwich.

Hark, the sound of yoncer bells	Now it rises, sinks, and swells;
Trembles in the list'ning ear:	The cause dear ladies make appear.

* * * It is particularly requested that all letters be sent within the limited time, and post paid, or they will not be received; that the several compositions be as short as may be with propriety; that the answers to the Enigmas and to the Rebuses and Charades never be given in the answers to the Enigmas and to the Rebuses and Charades, as they cannot be inserted together. — Several letters came too late to hand, so as not to be properly noticed. Mr. Mic. O'Riordan's letter of last year was not received, containing, he says, solutions to almost all the questions. — Several Gentlemen who enquire concerning Dr. Hutton's new Course of Mathematics in 2 vols. are informed that the first volume is now (in July 1798) all printed, and may be had; and the second volume is printing, and will probably be out before the end of this year.

MATHEMATICAL QUESTIONS ANSWERED.

I. QUESTION (1029), answered by Mr Wm. Davis,
Schoolmaster, of Crowan.

Put $x =$ the greater number, and $y =$ the less. Then $xy = x^2 - y^2$ and $xy = x^3 \div y^3$, or $x^2 = y^4$, or $x = y^2$; then by substitution, &c. we have $y^2 - y = x$. By completing the square, &c. we find $y = \frac{1}{2} + \sqrt{1\frac{1}{4}} = 1.61803$. Conseq. $x = 2.61803$:

The Same, by Mr John Eadon, Junr. Sheffield.

Let $x =$ the greater, and $y =$ the less number. Then, by the question $xy = x^2 - y^2$, and $xy = x^3 \div y^3$; therefore $y^2 x = x^3$, and $y^2 = x^2$, and $y^2 = x$. Put y^2 for x in the first equation, and we get $y^3 = y^4 - y^2$, or $y^2 - y = 1$. Hence $y = \frac{1}{2} + \frac{1}{2}\sqrt{5}$, and then $x = y^2 = \frac{1}{2} + \frac{1}{2}\sqrt{5}$, which are the two numbers sought.

For proof: $xy = 2 + \sqrt{5}$, and $x^2 - y^2 = 2 + \sqrt{5}$, and $x^3 \div y^3 = 2 + \sqrt{5}$.

The same, by Mr John Ramsay, London.

Suppose x the greater number, and y the less. Per quest. $xy = x^2 - y^2 = x^3 \div y^3$. By equating the two first quantities is got $x = \frac{1}{2}y \times 1 \pm \sqrt{5}$, and by equating the first and third $x = y^2$; hence $y = \frac{1}{2} \pm \frac{1}{2}\sqrt{5} = 1.618$ &c., or $-.618$ &c.; and $x = y^2 = \frac{1}{2} \pm \frac{1}{2}\sqrt{5} = 2.618$ &c.; or $.382$ &c.

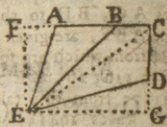
Answers to this question were also given by Messrs. James Adams, Geo. Barret, Wm. Baylis, R. Bernet, John Blackwell, John Fransby, Enxor Brown, Wm. Burdon, Colin Campbell, John Cavill, John Coulter, Tho. Coulter, Sarah Cowen, John Craggs, Rev. J. Ewbank, J. Fore, Wm. Eaton, jun. Rev. L. Evans, Wm. Francis, jun. Rev. J. Furness, J. Gee, Jos. Gittins, Ed. Grace, J. Harris, J. Hartley, John Hawkes, Wm. Haycock, jun. G. Henderson, Da. Henry, T. Hewitt, T. Hickman, W. Hofstman, Hen. Hunter, Wm. Kilburn, Rob. Langdon, J. M. Lockwood, Wm. Marvat, Tho. Milner, Jos. Moulds, Ja. Mulcaster, Wm. Nesoby, R. Oliver, Tho. Perroll, Cha. Pritty, Ben. Richardson, Da. Roberts, Wm. Robinson, Aug. Roullier, Alex. Rowe, John Rutherford, John Ryley, Rev. Tho. Sewer, Tho. Squire, Edw. Smith, John Surtees, J. W. Tapp, Tho. Thompson, Ja. Thoubren, Tho. Torwan, W. Truman, T. Turner, Wm. Vargo, Virret, Rob. Wallace, Geo. Walton, Jon. Walton, Rob. Wilkinson, Jas. Wilson, Tho. J. Wood, Tho. Woolson, Eliz. Wright, Wm. Wright, &c.

C

II. QUESTION

II. QUESTION (1030), answered by Mr Tho. Coulter, Prosperly.

Let CE be drawn, and produce CA to F, letting fall the perp. EF. Then $AF = \frac{BE^2 - BA^2 - AE^2}{2AB} = 17727$, and $\sqrt{AE^2 - AF^2} = \sqrt{EF^2} = 179125$; also $\sqrt{CF^2 + EF^2} = CE = 245394$ and $\frac{1}{2} AC \times FE = 1343437$ the area of the triangle ACE. Again, in the triangle CDE, having the three sides given, by a like process is easily found, the perp. GE = 15469589; and thence $\frac{1}{2} CD \times EG = 928175$, the area: Conseq. the sum of these two areas gives 2271612 square chains, or 22 Ac. 2R. 34 $\frac{1}{2}$ P. for the area required.



The same, by Mr J. Gee, Elswick, near Newcastle.

In the triangle ABE, the three sides are given, to find the angle $A = 93^\circ 39'$. Hence, if the diagonal CE be drawn, we shall have two sides and the included angle of the triangle ACE, to find the said diagonal = 24539 chains. Then in each of the triangles ACE, DCE, the three sides are known, whence the sum of their areas is easily found = 22 Ac. 2R. 35 P. = the content required.

The same, by Mr Rd. Oliver, Assistant to the Rev. Mr. Cussham, Sutton, near Mansfield.

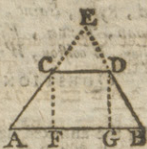
In the triangle ABE, all the three sides are given, to find the angle $ABE = 54^\circ 30'$, the supplement of which is $125^\circ 30' =$ the angle EBC. — If CE be drawn, we then have the sides EB, BC, and the included angle, whence CE is easily found = 245. Hence we have the sides of all the triangles EAB, EBC, ECD, from which (by rule 3 pa. 97 Hutton's large Mensur. 2d edit. or by rule 2 pa. 96 of his compendious Mensurer, their areas may be found, the sum of which comes out 22 Ac. 3 R. nearly.

Answers to this question were also given by Messrs. Adams, Baglis, Bennet, Blackwell, Boulby, Bransby, Brown, Burdon, Campbell, Carroll, Coulson, Coulter, Cowen, Craggs, Dino, Dever, Eadop, Eaton, Evans, Exobank, Forist, Francis, Furnas, Gillint, Grace, Harris, Hartley, Hawkins, Haycock, Henderson, Henry, Hewitt, Hickman, Hoffman, Jackson, Langdon, Lacey, Laycock, Lockman, Marrat, Milner, Meussdale, Malcasto, Newby, Pengfaje, Perroll, Priddy, Ramsay, Reffbir, Richardson, Roberts, Robinson, Roullier, Rowe, Rubersford, Ryley, Saint, Scurr, Sb—w, Smith, Squire, Surten, Tapp, J. J. Thompson, Troubren, Tocoan, Turner, Virgo, Vint, Wallace, Walton, Waters, Wilson, Wood, Woolston, Wriggles, &c.

III. QUESTION

III. QUESTION (1031), answered by Mr John Blackwell,
Hungerford.

Let ABCD represent the field; and continue the lines AC, BD to the point E. Then, in the triangle ABE, are given all the angles and the base or side AB; from which are found the other sides and area, viz. $AE = 1163.26$, $BE = 806.8717$, area of ABE = 469157; from this taking away the given area of the field, leaves 194157 the area of the triangle CDE.



But, as similar triangles have their like sides proportional to the square roots of their areas, we have, as $\sqrt{ABE} : \sqrt{CDE} ::$

$$\begin{aligned} AB : CD &= 921.238 \\ AE : CE &= 414.928 \\ BE : DE &= 287.806 \end{aligned} \left. \begin{array}{l} \text{Then } AE + BE - CE - DE = AC + \\ \text{BD} = 702.734, \text{ which added to } AB + CD, \\ \text{gives } 3056 \text{ links} = 122.24 \text{ rods, amounting to} \\ \text{3}l. \text{ 1}s. \text{ 1}d. \end{array} \right\}$$

— The same, by Mr Green, Academy, Deptford.

Make the side AB, and the angles A and B, &c. as in the question, producing the sides AC, BD to meet at E. In the triangle ABE are given all the angles and the side AB, from which are found the side $AE = 1163.259$, $BE = 806.872$, and the area 469201.967; from which taking the given area of the trapezoid = 275000 square links, there remains the area of the triangle CDE = 194201.967. Then say, as triangle ABE : triangle CDE :: $AB^2 : CD^2 = 848750.096$, its square root is $921.276 =$ side CD. Hence, by similar triangles,

$$\text{as } AB : CD :: AE : CE = 748.382, \text{ and again,}$$

$$\text{as } AB : CD :: BE : DE = 519.094; \text{ then}$$

$AE - CE = AC = 414.877$, and $BE - DE = BD = 287.778$; hence $AB + AC + CD + BD = 3055.931$ links = 122.2372 rods, which at 6 pence each, come to 3l. 1s. 1d. 69, the answer.

— The same, by Mr Joseph Mouldale, of Runcorn.

Put $AB = 1432$ links = g , the perp. CF or DG = x , sine A = a , its co-sine = b , sine of B = d , its co-sine = e , and the given area = 275000 square links = G. Then by trig.

$$\begin{aligned} AF &= \frac{b}{a}x, \quad BG = \frac{e}{d}x, \quad \text{and } FG = CD = g - 2mx \text{ (putting } \frac{b}{a} + \frac{e}{d} \\ &= 2m); \text{ hence the area is } \frac{g - mx}{2} \times x = G; \text{ this quadratic gives } x \\ &= 233.7 \text{ links. Hence the sides are } AC = 415, \quad CD = 921.2, \quad BD = \\ &287.8, \text{ their sum} = 3056 \text{ chains, which at } 2l. \text{ per chain is } 3l. \text{ 1}s. \text{ 1}d. \\ &176 \text{ q.} \end{aligned}$$

Other ingenious answers were given by Messrs. Adams, Alpinall, Baylis, Bennet, Boulby, Bransby, Broxon, Burdon, Campbell, Cavill, Coben, Coulter, Cowen, Craggs, Cross, Dixo, Dowden, Eadon, Eaton, Evans, Ewbank, Francis, Forest, Furness, Gee, Gittins, Grace, Harris, Hartley, Hawkins, Hayscock, Henry, Hewitt, Hickman, Hostman, Jackson, Lang-

dom, Lacey, Lockwood, Marrat, Milner, Mulcaster, Newby, Penglas, Perroll, Pritty, Ramsay, Roberts, Robinson, Roullier, Rowe, Rubenford, Ryley, Saint, Scur, Shaw, Smith, Squire, Surtees, Tbaubren, Towan, Turner, Virgo, Vriet, Wallace, Walton, Waters, Wilkinson, Wilson, Woolston, Wright, &c.

IV. QUESTION (1032) answered by Mr J. Hartley, Auditor's Office.

In the annexed figure, are given $AD = 8$, $CD = 20$, angle $FAB = 32^\circ$, and the angle $CDF = 58^\circ$ by the question. Then by trigonometry, $ED = 4.24$, $AE = EB = 6.78$, $CE = 24.24$, $CB = CA = 25.08$ inches; the angle $CAB = CBE = 81^\circ 30'$, and the angle $AFB = 66^\circ 30'$, the side $FB = 7.83$, and AF the transverse diameter = 14.62 inches. By mensuration, the solidity of the cone = 1166.86; then by sim. triangles, as $CB : BE :: CF : FG = 4.66$; whence $FH = 9.32$, and $\sqrt{HF \times AB}$ = the conjugate diam. of the ellipse = 11.24 = KL . Then, as radius : $AC :: \sin. \angle CAF : CI = 15.44$ the perp. Hence, $AF \times KL \times \frac{1}{2} CI$ gives 663.388 for the solidity of the oblique cone $CAFC$; $\frac{1}{6}$ of this is 110.56 = the solidity of the globe; consequ. its diameter will be $\sqrt[3]{110.56} = 4.8236 = 6$ inches nearly.



The same, by Mr John Surtees, of Alstone.

Let $n = AD = 8$ inches, $s = CD = 20$, and $c = \sin$ and cosine of the angle D to radius 1, and $a = 7.854$. Then $AB = 2ns = D$, $CE = n \times \frac{s+4c}{2} = H$, and $HF = \frac{10sn}{s+2c} = d$. Hence (by Hutton's Mensur. pa. 173) the solidity of $ACF = \frac{1}{2} a H d \sqrt{D d}$; and therefore the diameter of the globe = $\sqrt[3]{\frac{H d \sqrt{D d}}{12}} = n \sqrt[3]{\frac{5}{s+4c}} \times \sqrt[3]{s+2c \times \frac{1}{6} s^2} = 6.02629$ inches, as required.

The same, by Mr Rob. Wilkinson, North Shields.

Let ABC represent the cone, and AF the dividing plane. Then $AD = 8$, $CD = 20$, and the angle $ADE = 58^\circ$. Now radius : $AD :: \sin. \angle DAE : DE$, hence CE is known; radius : $AD :: \cos. \angle DAE : AE$, hence AB is known. Then $20.18AB^2$. CE is the solidity of the whole cone. And, by Hutton's Mensur. cor. 4, pa. 228, 2d edit. the whole cone is to the top part CAF , as CE^2 to CD^2 , which gives the solidity of the top part, which call a . Hence $\sqrt[3]{a} \div 3.1416$ is the diameter of the globe, = 6 inches nearly.

Ingenious answers were also given by Messrs. Adams, Aspinall, Baylis, Blackwell, Boulby, Bransby, Brown, Burdon, Campbell, Cavill, Coulter,

Burd, Cowen, Craggs, Dover, Eadon, Eaton, Evans, Ewbank, Francis, Forest, Furnals, Gee, Gittins, Harris, Hawkes, Haycock, Henry, Hewitt, Hickman, Hoffman, Hunter, Kilburn, Langdon, Marrat, Milner, Mouldale, Mulcaister, Newby, Penglase, Perrell, Priddy, Ramsay, Roberts, Robinson, Roullier, Rowe, Rutherford, Ryley, Scurr, Sh—w, Smith, Squire, Thoubret, Towan, Turner, Virgo, Wallace, Walton, Wilson, Wood, Wright, &c.

V. QUESTION (1033), answered by Mr John Coultherd, Frosterly.

By similar solids, as $\sqrt{7^2 + 5^2 + 7 \times 5} \times 2618 : \sqrt{8 \cdot 67 \times 1728}$

$7 : 35 :: 5 : 25$, so that 35 and 25 are the top and bottom diameters of the frustrum. — Again, if d denote the diameter of the globe, then $3 \cdot 1416 d^2$ is its superficies, and $3 \cdot 1416 d^2 \times \frac{1}{6} d$ is its solidity; therefore $3 \cdot 1416 d^2 \times 2\frac{1}{2} = 3 \cdot 1416 d^2 \times \frac{1}{6} d$, or $2\frac{1}{2} = \frac{1}{6} d$, and $d = 2\frac{1}{2} \times 6 = 15$ the globe's diameter, and conseq. its solid content = 1767·146. Also, by similar triangles, as $CG : CI :: AB - CD : EF$ $AG : HB :: CD : EF$, that is, as $21 : 15 :: 35 - 25 : 7\frac{1}{2}$; to this adding CD , gives $EF = 32\frac{1}{2}$ the diameter at the surface of the wine. Then the solidity of the part $CEFD$ is found = 9667·209; from which taking the content of the globe 1767·146, leaves the quantity of the wine = 7900·063 cubic inches, or 34·2 wine gallons, as required.



The same, by Mr Da. Roberts, of St. Columb.

Put $7x = AB$, $5x = CD$, $a = 21 = CG$, and $b = 2618$. Then $49x^2 + 25x^2 + 35x^2 \times ab = 8 \cdot 67$ feet = 14981·76 cubic inches; which equation gives $x = 5$, and hence the diameters are 35 and 25. — Now call the diameter of the globe d . Then is $2bd^3$ the solidity, and $12bd^2$ the surface, therefore $2bd^3 = 2\frac{1}{2} \times 12bd^2$, and $d = 15 = CI$ or DK . Again, by sim. triangles, as $CG : AG :: CI : EI = 3\frac{1}{2}$; hence

$EF = 32\frac{1}{2}$, and the content of $CEFD = 9667 \cdot 9316$,

from which take the globe's content = 1767·15

leaves the content of the wine = 7899·78 inches,
or 31·108 gallons.

Other ingenious answers were also given by Messrs. Adams, Baylis, Blackwell, Branby, Brown, Eardon, Campbell, Gavill, Coles, Coultherd, Cowen, Craggs, Dno, Dover, Dowden, Eadon, Eaton, Evans, Ewbank, Francis, Forest, Furnals, Garfide, Gee, Gittings, Harris, Hartley, Hawkes, Haycock, Henry, Hewitt, Hickman, Hoffman, Hunter, Kilburn, Laycock, Lockwood, Marrat, Milner, Mouldale, Mulcaister, Newby, Penglase, Perrell, Priddy, Ramsay, Richardson, Robinson, Roullier, Rutherford, Ryley, Scurr, Sh—w, Smith, Squire, Surtees, Taylor, Thoubret, Towan, Turner, Virgo, Wallace, Walton, Wilkinson, Wilson, Wood, Wright, &c.

VI. QUESTION (1034), answered by Mr Wm. Baylis, Coventry.

By Euclid vi. 3, the sides are proportional to the segments of the base made by the line bisecting the vertical angle; that is, $5 : 4 :: AB : BC :: AD : DC$. Now there are given $aB = 5$, $Bc = 4$, and $\angle aBe = 60^\circ$, to find the $\angle a = \angle A = 49^\circ 6' 24''$; hence $\angle C = 70^\circ 53' 36''$. Then, in the triangle aBD ; are given all the angles and the side $BD = 16$, to find $AB = 20.7846$, and $AD = 10.5830$. And in the triangle BCD , are given all the angles and side BD , to find $BC = 16.6277$, and $DC = 8.4664$. Hence $AC = 19.0494$, $BE = 18.7117$, and area = 149.647 .



The same by Mr. Wm. Burdon, of Acaster Malbis.

CONSTR. Make the angle $ABC = 60^\circ$, and take $aB : Bc :: 5 : 4$ the given ratio of the segments of the base. Bisect the angle B with the line Bd , which produce till $BD = 16$, the given length; then draw ABC parallel to aBc , so shall ABC be the triangle required.

CALCUL. In the triangle aBc , are given the two sides aB , Bc , and the included angle B , to find the $\angle a = 49^\circ 6' 24'' = \angle A$; hence $\angle c = 70^\circ 53' 36'' = \angle C$. Then in the triangle aBD , are given all the angles and the side BD , to find $AB = 20.7845$, and $AD = 10.583$. In like manner $BC = 16.6277$, and $DC = 8.4664$. Hence $AC = 19.0494$, and the area of the triangle $ABC = 149.6488$.

Ingenious solutions were also given to this question by Messrs. Adams, Bengal officer, Blackwell, Bransby, Brown, Campbell, Cavill, Coulter, Cowen, Craggs, Dino, Dever, Dowden, Eadon, Eaton, Evans, Ewbank, Forest, Furnals, Gee, Gittins, Harris, Hartly, Hawkes, Haycock, Henry, Hewitt, Hunter, Jackson, Langdon, Latey, Lockwood, Milner, Mouldale, Mulcaster, Newby, Penglase, Perroll, Pritty, Ramsay, Rimmer, Roberts, Robinson, Roullier, Rowe, Rutherford, Saint, Scarr, Smith, Sparrow, Squire, Surtees, Thoubren, Towan, Truman, Turner, Virgo, Wallace, Walton, Wilkinson, Wilson, Wood, Wright, &c.

VII. QUESTION (1035), answered by Mr James Adams.

At page 187 of Crakelt's translation of Mauduit's Trigon. it is, as tang. half the depression of the crepuscular circle below the horizon, is to radius, so is the sine of the declination, to the sine of the latitude, of a denomination contrary to the declination. Hence the required lat. is $56^\circ 37'$ north $= NP$. Then $ZP = 33^\circ 23'$; there is also given the sun's decl. = $7^\circ 36'$ south, his semidiam. = $16' 6''$, horizontal refraction = $33''$, and his horizontal parallax = $9''$; from hence is found $PS = P \odot = 97^\circ 36'$ the polar distance. Also,



90° 0' 0''	-	90° 0' 0''
+ 16 6	-	- 16 6
+ 0 9	-	+ 0 9
- 33 0	-	- 33 0
80 43 15	= ZS zenith dist. of sun's centre Z \odot =	89 11 3

Then,

Then, in the triangle ZPS , there are given the three sides, to find the angle $ZPS = 78^{\circ} 25' 1''$. And, in the triangle ZPO , are also given the three sides, to find the angle $ZPO = 77^{\circ} 30' 1''$. Their difference is angle $OPS = 55'$, answering to 3 min. 40 sec. the time required.

Ingenious solutions to this question were also given by Messrs. Baylis, Bransby, Burdon, Campbell, Coulter, Cowen, Dino, Eaton, Furnass, Gee, Hawkes, Hartley, Henry, Hewitt, Middleton, Milner, Mouldale, Newby, Ramsay, Roberts, Roullier, Rowe, Rutherford, Ryley, Smith, Surtees, Thoubren, Virgo, Wallace, Wilkinson, Wright, &c.

VIII. QUESTION (1036), answered by Mr John Bransby, Ipswich.

Put x for the depth of rain in inches, a the area of the aperture, b the ounces in a cubic foot of water, and w the ounces of water in the gage. Then $abx \div 1728 = w$; hence $x = 1728 w \div ab$. — Or, because $b = 1000$ (see Hutton's Conics, p. 138), $x = 1728 w \div a$. In words, multiply the ounces of water caught, by 1728, and divide the product by the area of the aperture, for the depth of water fallen.

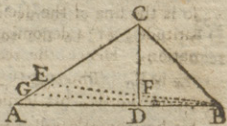
The same, by Mr John Craggs, of Hilton.

The quantity of rain that falls into any given vessel, must evidently be as the area of the orthographic projection of the vessel's aperture on a plane at right angles to the falling rain. Now when the aperture is a circle, its projection is an ellipsis, having its transverse axis equal to the diameter of the circle, and its conjugate is to the transverse, as the cosine of the inclination of the falling rain is to radius. Put $w =$ weight of a cubic foot of water, $d =$ diameter of the vessel, $W =$ weight of water caught, $s = .7854$, $c =$ cos. of inclin. of the falling rain; then $W \div a d^2 w =$ depth of water in the vessel, also radius; $d :: c : cd =$ conj. axis, and $ac d^2 =$ area of the aperture; conseq. $W \div ac w d^2 =$ depth of water as required.

Answers to this question were also given by Messrs. Adams, Campbell, John Coulter, Cowen, Furnass, Gough, Haycock, Miner, Mouldale, Newby, Pritty, Roberts, Roullier, Rowe, Rutherford, Ryley, Thoubren, Virgo, Wallace, Wright, &c.

IX. QUESTION (1037), answered by Mr James Adams.

Let ABC be any plane triangle, and CD the line bisecting the angle ACB . In CA take $CE = CB$, and draw BE . Then is the angle ACD or BCD half the vertical angle, CBE the complement of the $\angle BCD =$ half the sum of A and B the angles at the base, and the angle ABE , or compl. of $\angle D$, is half the diff. of the angles A and B at the base. Now, by trigon. as $AC + CB : AC - CB :: \text{tang. } CBE : \text{tang. } ABE :: \text{cotang. } BCD : \text{cotang. } D :: \text{tang. } D : \text{tang. } BCD$, because the tangents and cotangents of arcs are reciprocally proportional.



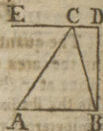
The same, by Mr Tho. Coultherd, Frosterly.

The demonstration of this theorem is easily deduced from the 6th propos. in Emerson's Trigon. For, if CE be taken = CB, and CFD be drawn perp. to BE; also FG parallel to AB. Then will the $\angle ECF = \angle BCF$, and $GC = \frac{1}{2}$ the sum of AC and BC, also $AG = \frac{1}{2}$ the diff. of AC and BC. Hence, by sim. triangles, as $CG : CA :: CF : FD :: \text{tang. } \angle CBF : \text{tang. } \angle DBF$. But the tangent of any angle is reciprocally as the cotangent of the same angle; therefore as $AC + CB : AC - CB :: \text{cotang. } \angle DBF : \text{cotang. } \angle CBF :: \text{tang. } \angle D : \text{tang. } \angle BCF$, the whole of each of the first terms being in the same ratio as their halves.

Ingenious demonstrations of this property were also given by Messrs. Bransby, Brown, Burdon, Campbell, Cavill, Cowen, Craggs, Furnass, Gee, Gompertz, Gough, Harris, Hartley, Hawkes, Hunter, Latcy, Middleton, Milner, Moulsdale, Newby, Nicholson, Pritty, Roberts, Rowe, Rutherford, Ryley, Saint, Squire, Surtees, Thoubren, Virgo, Wallace, Wilson, Wright, &c.

X. QUESTION (1038), answered by Mr Colin Campbell, of Kendal.

Make BD equal and perp. to the given base AB, and draw the indefinite line DE parallel to it, then AC, BC being drawn to meet DE in C, so that $AC : BC :: 3 : 2$, by prop. 13, pa. 220, Simp. Geom. ABC will be the required triangle.

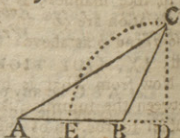


For, the area $\frac{1}{2} AB \cdot BD = \frac{1}{2} AB^2 : AB^2 :: 1 : 2$. And, because $AC : BC :: 3 : 2$, $AC^2 : BC^2 :: 9 : 4$, and $AC^3 : BC^3 :: 27 : 8$, and therefore $AC^3 + BC^3 : AC^3 - BC^3 :: 35 : 19$; hence $\frac{AC^2}{BC^2} :$

$$\frac{AC^3 + BC^3}{AC^3 - BC^3} :: \frac{9}{4} : \frac{35}{19} :: 171 : 140.$$

The same, by Mr John Rutherford, Lanchester School.

Divide the given base AB, so that AE be to EB as 3 to 2, and take ED, a fourth proportional to AE — EB, EB, and AE, by Lemma Prob. 21, pa. 334, Simpson's Algebra. Raise the perp. DC = DE; so shall C be the vertex of the triangle ABC required.



For then $AC : BC :: AE : EB :: 3 : 2$, also $AC^2 : BC^2 :: 9 : 4$, and $AC^3 + BC^3 : AC^3 - BC^3 :: 35 : 19$; hence $\frac{9}{4} : \frac{35}{19} :: 171 : 140$, the given ratio.

In this last manner is the construction given by the Rev. J. Furnass, Mr. Glennie, Mr. Ryley, and Mr. T. J. Wood.

Other ingenious solutions were also given by Messrs. Adams, Baylis, Bengal officer, Coultherd, Cowen, Craggs, Eaton, Facer, Gee, Gough, Harris, Hawkes, Henry, Hornby, Hunter, Middleton, Moulsdale, Nicholson, Pritty, Roberts, Rowe, Smith, Surtees, Thoubren, Wallace, Wright, &c.

XI. QUESTION

XI. QUESTION (1039), answered by Mr John Ramsay,
London.

Let T = tang. of 60° or 50° , the angles of eleva. at the first station;
 t = tang. of 58° or $48^\circ 10'$, the like angles at the 2d stat. to rad. r .
 x = dist. from 1st stat. to middle of either hill's base.

By trigon. as $1 : 200 :: \sin. 10^\circ : 34.73 = c$, height of 2d stat. above 1st; and as $1 : 200 :: \cos. 10^\circ : 196.96 = b$, horiz. dist. of the two stations. Again, as $1 : x :: T : Tx = \text{perp. height of either hill above 1st stat. and } 1 : t :: \sqrt{b^2 + x^2} : t\sqrt{b^2 + x^2}$ the same above the 2d station. Therefore $Tx = c + t\sqrt{b^2 + x^2}$; which equation reduced gives $x = \frac{Tc \pm t\sqrt{(T^2 - t^2) \times b^2 + c^2}}{T^2 - t^2} = 629.373$ and

816.154 yards.

From these values of x the following are found:

Distance between the hills' tops = 1445.527 yards,

Perp. height of the hills; 1090.106 and 972.654 yards,

Dist. of their tops from 1st stat. 1269.71 and 1258.746,

Dist. of ditto from the 2d stat. 1258.806 and 1244.477.

The same, by Mr John Ryley, of Leeds.

As the declivity of the road, and the distance between the two stations upon it, are given, the altitude of the second station above the first is found by trigon. = 34.72964 yards, and their horizontal distance = 196.96154. Now put $a = 34.72964$, $b = 196.96154$, $c = \text{cotang. of } 60^\circ$, $t = \text{cotang. of } 58^\circ$, and $x = \text{the hill to these two angles}$. Then, by trigon. $cx = \text{the distance from the first station to the middle of the hill's base, and } t \cdot x - a = \text{the distance from the second station; hence, by Eucl. i, 47, } t^2 \cdot (x - a)^2 - c^2 x^2 = b^2$; from which quadratic x is found = 1090 yards.

In like manner, if x denote the height of the other hill, whose angles of elevation are 50° and $48^\circ 10'$; c and t the cotangents of the said angles, also a and b as above: then will $x = 973$ yards, the height of the lower hill.

Now from what is here found, and the 47th of Eucl. i, the distance between the summits is found, = 1445.7; the distance from the first station to the top of the higher hill 1258.6, and to the top of the lower 1270; also from the second station to the top of the higher hill 1232.5, and to the top of the lower 1259.3 yards.

Ingenious solutions were also given to this question by Messrs. Adams, Baylis, Blackwell, Bransby, Campbell, Cowen, Craggs, Dover, Drexden, Eaton, Evans, Furnass, Gee, Horley, Henry, Hewitt, Hornby, Hunter, Jackson, Marra, Middleton, Milner, Mouldale, Perroll, Rees, Roulier, Roberts, Robinson, Rowe, Rutherford, Smith, Surtees, Thoubren, Wallace, Wright, &c.

XII. QUESTION

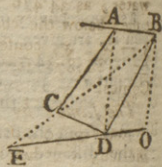
XII. QUESTION (1040), answered by Mr John Bransly,
Ipswich.

From the given latitude, declination, and hour, the sun's altitude is found to be $51^{\circ} 30' 23''$, and his azimuth south $22^{\circ} 16' 22''$ towards the east. Let ABC (fig. 1.) be a right-angled triangle, having its angle C = the sun's altitude, and $AB = 20$ yards the height of the tree; thence will AC the length of the shadow on a horizontal plane be found = 15.89117 . Let BC be continued to D, meeting AED, which is the plane of the declivity, and let CE be drawn perp. to the horizontal line AC. In fig. 2, let A be the bottom of the tree, and A c N a horizontal plane passing through that point: then AN, being the meridian line, and the angle c AN = $22^{\circ} 16' 22''$, the azimuth, A c will be the direction of the shadow, and = 15.89117 , as above found; whence N c is found = 6.03457 . Again, in the triangle c c N, right-angled at c, having given N c, and the angle c N e = 20° the inclination of the declivity, c e is found = 2.196404 , answering to CE in fig. 1. The angle CAE may be now found = $7^{\circ} 51' 44''$; whence D = $43^{\circ} 38' 39''$; and AD the length of the shadow is easily found = 18.036733 yards.



The same, by Mr Tho. Coultherd, Frosterly.

The day of the month, the latitude and meridian distance being given, the sun's azimuth from the south is found $26^{\circ} 16' 44''$, and altitude $51^{\circ} 26' 30''$; to which if there be added $16'$ the semidiameter, and $45''$ the refraction, the sum $51^{\circ} 43' 15''$ will be the altitude of his upper limb. Now, in the figure, let B be the place of the tree, AB the edge of the horizontal plane on which it stands, ABDO the continuation of the same plane; CD at right angles with it, BD the direction of the shadow, AD an east and west line, the angle ADB the sun's distance from the east, and angle BDO his altitude. Then, as tang. $\angle BDO$: radius :: height of the tree: $BD = 15.783$; and as radius: BD :: cosine $\angle ADB$: $AD = 6.2376$; also as cosine CAD: AD :: sine CAD: $CD = 2.2703$, and as DB : radius :: CD : tang. $\angle CBD = 8^{\circ} 11' 8''$. Hence, in the triangle EBD, having the angle B last found, the angle EDB the supplement of ODE, conseq. the angle E is known; then as sine E: DB :: sine EDB: $EB = 17.987$ yards, the length of the shadow required.



This question was also answered by Messrs. Adams, Baylis, Campbell, Cowen, Craggs, Cross, Dino, Dover, Eaton, Furness, Garside, Ge, Hartley, Hawkes, Henry, Hewitt, Hornby, Hunter, Marrat, Milner, Moultsdale, Penglase, Perroll, Ramsay, Rees, Reullier, Rowé, Ryley, Smith, Squire, Surtees, Thoubren, Terwan, Truman, Vargo, Wallace, Wright, &c.

XIII. QUESTION

XIII. QUESTION (1041), answered by Mr. J. Gough, Kendal.

The density of the air is as its spring, which in the open tube is equal to a column of mercury of the same base and $29\frac{1}{2}$ inches high; but in the immersed tube this weight is increased by a column of water $30 - x$ inches high, x denoting the height of the water in the tube; but $13600 : 1000 :: 30 - x :: 2.205 - .0735x =$ a column of mercury of the same weight; and the whole pressure $= 29.5 + 2.205 - .0735x = 31.705 - .0735x$; but when the matter is given, the magnitude is inversely as the density, or pressure in the present case, therefore $31.705 - .0735x :: 29.5 :: .36 : .36 - x$; hence $x^2 + 467.36x = -1080$, and $x = 2.33$ inches, as required.

The same, by Mr Tho. Hornby, Land-Surveyor.

At pa. 137 of Dr. Hutton's Conics, the specific gravity of quicksilver, to that of water, is stated as 11 to 1. And since the heights retained above the level by the pressure of the atmosphere, are as their densities, we have by proportion $1 : 14 :: 29.5 : 413$ inches $= 34.416$ feet, the height at which water will stand when quicksilver stands at 29.5 . Therefore, to find what height water will rise in a tube 36 inches or 3 feet long, when sunk perpendicularly 30 inches or $2\frac{1}{2}$ feet in water. Let $x =$ the space occupied by water; then, will $3 - x =$ the space occupied by air. But by the rule at pa. 390, vol. i, Hutton's Dictionary, under the article Diving Bell, the space occupied by air, is to the space filled with water, as 34.416 feet, is to the depth of the surface of the water in the tube, below the common surface of it. That is, $34.416 : 2.5 - x :: 3 - x : x$; consequ. $34.416x = 7.5 - 5.5x + x^2$; hence x is found $= .1887875$ feet $= 2.26545$ inches, the same as that in Hutton's Conics.

The same, by Miss Maria Middleton, Eden, near Durham.

Let $l = 30$ inches the length of the tube, $b = 30$ inches the part immersed, $x =$ height of water in the tube, and $f = 413$ inches, the height of a column of water equal to the pressure of the atmosphere, when the quicksilver stands at $29\frac{1}{2}$ inches. Then, since the spaces occupied by the same quantity of air, are reciprocally as the compressing forces, it will be,

as $l - x : l :: f : \frac{lf}{l-x} =$ force of the air in $l - x$; hence $\frac{lf}{l-x}$

$+ x = b + f$, and $x = 2.2654115$ inches.

Ingenious answers were also given by Messrs. Adams, Barrett, Campbell, Coultberd, Cowen, Craggs, Furnass, Gee, Gompertz, Grace, Hewitt, Milner, Penglass, Rees, Rowe, Smith, Surttees, Towan, Virgo, Wilson, Wright, &c.

XIV. QUESTION (1042), answered by the Rev. J. Furnass, Heddon on the Wall.

The numbers given in this question do not seem to be rightly proposed; for first a globe of one foot in diameter, and density 10 times that of water, will weigh near three times 112 pounds, or the given weight; and again, a globe that is heavier than water, will never lose all its velocity, but will continually descend. It may indeed lose all its force in the water,

to as to come to move with a uniform velocity, when the velocity has increased so far that the resisting force has become equal to the motive force urging the body downward. And all these circumstances, with proper data, may be determined by Doctor Hutton's Select Exercises, pa 227, 230 &c. or his Dictionary, vol. 2, p. 361. Thus,

Put d = the diameter of the globe, N = its density, n = $1\frac{1}{2}$ the density of the air, s = 30 feet the height of the eminence; g = $164\frac{1}{2}$ feet, and v = the velocity of the globe at the surface of the water. Now, to

determine v in terms of s , put $b = \frac{3n}{8Nd}$, $e = 2718281828$, and ab

= $2g$; then, by pa. 231, Select Exercises, $v = \sqrt{e - ac - 2bs} = 43.82$ nearly, or nearly the same as the velocity freely generated by gravity, and is the velocity with which the globe enters the water.

Now put x for any space moved in the water, and $e = 43.82$, the first velocity, the other letters being as above: then, by prob. 31, pa. 227,

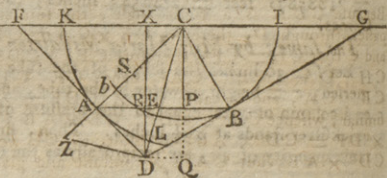
the general equation is $bx = \log. \frac{e}{v}$, or $x = \frac{1}{b} \times \log. \frac{e}{v}$, where the

space x may be found answering to any given velocity v .

Observations and calculations similar to the above were also made by Messrs. Burdon, Campbell, Cowen, Coultherd, Craggs, Compertz, Gough, Hewitt, Horaby, Marrat, Middleton, Miner, Rees, Rowe, Ryley, Smith, Surtees, Wallace, Wright, &c.

XV. OR PRIZE QUESTION (1043), answered by Amicus.

Make CA and Cb = the two given sides, and CS = their third proportional; produce CA to Z till $AZ \cdot ZS = \frac{1}{4} Cb^2$, erect AD perp. CA , meeting a semicircle described on the diameter CZ in D ; draw CD ,



and with the radii Cb , CA describe two circles bBI , KAL ; from D draw DB a tangent to bBI in B ; draw CB , AB , and ACB is the triangle required.

For, drawing through C a parallel to AB , meeting DA , DB produced in F and G , and letting fall the perps. CP , DX ; by constr. $\frac{1}{4} Cb^2 = AZ \cdot ZS$, and $AC^2 - Cb^2 = AS \cdot AC = AC \cdot ZS = AC \cdot AZ = AC \cdot ZS - AD^2 = DB^2 - AD^2$, $DB^2 = AC \cdot ZS$, $AD^2 = AC \cdot AZ$, $DB^2 \cdot AD^2 = AC^2 \cdot ZS \cdot AZ = \frac{1}{4} AC^2 \cdot Cb^2$, or $DB \cdot AD = \frac{1}{2} AC \cdot Cb = CD$. $DR = \frac{1}{2} CD \cdot CP$, therefore $RX = 2DR$. Now, if FDG be a given triangle, and it be required to inscribe another within it so that $AB \times CP^2$ may be a maximum when C is a given point and AB parallel to FG , then since $DX \cdot FG \propto R \cdot AB$, the ratio of DR to AB being then given, $DR \cdot RX^2$ is a maximum, therefore by Simpson's Geom. pa. 208, $RX = CP = 2DR$,

and

and when this is a maximum within the tangents DF, DG, it must needs be such within the circles KAL, bBI; conseq. CP². AB and the prism in question is a maximum. Q. E. D.

The same, answered by Mr John Surtees, Alston.

Let $x = AB$ the base, m and $n =$ the two sides BC and AC, Then $m^2 - \left(\frac{x^2 + m^2 - n^2}{2x}\right)^2 = CE^2$, and

by the quest. $\frac{(m^2 - n^2) \times 2x^2 - x^4 - (m^2 - n^2)^2}{x} =$

a maximum, which put into fluxions and reduced, give $x^4 - \frac{2}{3}x^2 \times (m^2 + n^2) = \frac{1}{3} \times (m^2 - n^2)^2$. Hence this construction:

CONSTRUCTION. Take HM (= $3 \times m - n$) perp. to LH = $\sqrt{m^2 + n^2}$, $\angle BLH = \angle LMH$, BD parallel and equal to HK = $\frac{1}{3}(m + n)$, KN = KD, and BG = $m - n$; then a mean proportional between BG and BN will be the base of the triangle.



The same, by Mr John Craggs, of Hilton.

Suppose ACB to be the triangle, AC and BC the given sides, and take CH : CA :: CB : EA², and on the diameters CA and CH describe the semicircles CDA and CFH; and conceive the line DEF drawn perp. to CH, and join CF. Because CDA is a right angle, the semicircle passes through D, therefore CE x CA = CD², and CE x CH = CF², therefore CF² : CD² :: CH : CA :: CB² : CA², hence CF : CD :: CB : CA, and because the $\angle CDF = \angle CAB$, the triangles are similar, whence CA² : CD² :: CD x AB : CE x DF, therefore CA x DF = CD x AB, by mult. by CD we get CA x CD x DF = CD² x AB; but CA is a constant and given quantity, therefore CD x DF is a max. Put $x = CE$, $b = CA$, $a = CH$; then $\sqrt{bx - x^2} = DE$, and $\sqrt{ax - x^2} = EF$, also $\sqrt{bx} = CD$; conseq. $\sqrt{bx} \times \sqrt{bx - x^2} + \sqrt{bx} \times \sqrt{ax - x^2}$ or $\sqrt{bx^2 - x^3} + \sqrt{ax^2 - x^3} =$



a max. this in fluxions, and reduced, gives $3x^2 = a + b \times 4x - 4ab$, an equation similar to Sanderson's solution to quest. 800 in the Diary. Hence the construction will be similar, and needs to repeat here.

Constructions to this question were also given by Messrs. Campbell, Gompertz, Howard, Nicholson, and Wallace. Others were attempted, but not right. And ingenious Algebraical Solutions by Messrs. Adams, Barrett, Burdon, Carr, Coulter, Davies, Dowden, Eaton, Ewbank, Facer, Gee, Gough, Hartley, Hawkes, Hewitt, Honey, Hornby, Hunter, London, Mariat, Middleton, Moulsole, Mulcaster, Pritty, Rees, Roberts, Rowe, Ryley, Saint, Smith, Toubren, Turner, Wilson, &c.

NEW

NEW QUESTIONS.

I. QUESTION (1044), by *Mr Rob. Langdon, of Atlow.*

On a given right line, as a base, to construct a triangle such, that if a perpendicular be let fall on the base from the vertical angle, it may be a mean proportional between the segments of the base; the other two sides being in the ratio of 5 to 4.

II. QUESTION (1045), by *Mr Geo. Boulby, of Ackworth.*

The sum of the vibrations made by three pendulums in one minute is 252, and the ratios of the number of vibrations made by each, as 5, 7, 9; required the lengths of those pendulums, supposing the length of the seconds pendulum to be $39\frac{1}{4}$ inches.

III. QUESTION (1046), by *Mr Tho. Kirton, Peterborough.*

On April 25th at noon 1798, a straight cane of 3 feet long being placed on the horizontal plane, in such position that its shadow might be the longest possible; and at the same instant a perpendicular being let fall from the upper end of the cane was observed to cut the shadow at 1.584 feet from the end remotest from the cane: Query the latitude of the place, it being of the same name as the declination.

IV. QUESTION (1047), by *Mr Rd. Bennett, Officer of Excise, Ashburn.*

A cask's length being 40 inches, and content 122 ale gallons, allowing the form to be a middle frustum of a spheroid; but if a middle frustum of a parabolic spindle, only 100 gallons: query the head and bung diameters.

V. QUESTION (1048), by *Mr Geo. Chapman, Frosterly.*

The entrance into Frosterly school measures $6\frac{1}{2}$ feet by $3\frac{1}{2}$, and is in the front of the house, which declines $16\frac{1}{2}$ degrees from the south towards the west; I desire to know how many square feet the sun will enlighten on the floor of the school, which is perfectly horizontal, on the 21st of June 1798, at eleven o'clock true time in the morning, supposing the rays to meet with no obstruction, but from the outer edge of the entrance, and the base of the part enlightened to be in the same straight line with the outside of the house; the latitude of Frosterly being $54^{\circ} 56'$.

VI. QUESTION (1049), by *Mr Tho. Squire, of Astwick.*

In latitude 36 degrees, the sun was observed to be due east, when the number of degrees from noon was double his altitude. Required the time of observation.

VII. QUESTION (1050), by *Mr James Wilding, High-Ercall.*

In the play ground belonging to the school at High-Ercall, is a remarkable fine beech tree, whose branches afford a pleasant shade in the summer season;

season; around which tree I intend making a hexagonal or six-sided seat; for which purpose I have procured a deal plank $16\frac{1}{2}$ feet long and 11 inches broad; I should be glad therefore to know, as a direction to my workman, the inner and the outer lengths of each side, so as to occasion the least loss in cutting.

VIII. QUESTION (1051), by Mr Tho. Hind, at Mr Shepherd's Boarding School, Layton, Essex.

My clock, which ought to beat seconds, gains at the rate of 30 minutes per week; I should therefore be glad to know how many revolutions I must turn the nut of the screw part of the pendulum, downward, to reduce it to keep true time, supposing there be 40 rounds to an inch.

IX. QUESTION (1052), by Mr J. Reffshir, Deptford.

Admitting a right cone to be full of water, standing on a plane; whereabouts in the side must a hole be bored, so that the water may spout just to the circumference or edge of the cone's base; supposing its axis 24 feet, and diameter of its base 20 feet.

X. QUESTION (1053), by Mr Wm. Burdon, Acafter Malbis.

Two gentlemen bought a triangular estate, the sides of which are 2160, 3340, and 4750 links, which they have divided between them by a straight fence 1800 links long, drawn through the centre of its inscribed circle, and terminated by the two longest sides of the triangle: Query how much of the estate belongs to each person.

XI. QUESTION (1054), by Mr Tho. Coulterd.

On Lammas Day 1797, at 10 o'clock in the morning, in the latitude of $34^{\circ} 40'$, I observed a boy setting his kite up into the air with a cord of 80 fathom. Now admitting the string when at its full stretch, to make an angle of 60 degrees with the plane of the horizon, the boy's hand to be 4 feet above the same, and the wind to blow from the south-south-west; I desire to know what distance the boy would be from the extremity of the shadow, which the kite would make on the ground when in a vertical position, and its top 3 feet above the cord, allowing the earth to be perfectly level.

XII. QUESTION (1055), by the Rev. Mr Furnass, Haddon-on-the-Wall.

A gentleman has a circular plantation, in which are two walks, the one the chord of an arch of the fence, the other the versed sine on height of the same perpendicular from the middle of the chord, whose lengths are 4 chains and 1 chain respectively. Now the gentleman, wishing to have a ditch made round on the outside of the same, of 6 feet in breadth and $4\frac{1}{2}$ feet in depth, the inside coinciding with the circumference of the plantation, has two proposals for this undertaking, the one at 2d the solid yard, and the other at 6d per yard running equitable circumference, or along in the middle of the ditch. It is required to shew which is most in favour of the owner.

XIII. QUESTION

XIII. QUESTION (1056), by Mr Wm. Francis, junr.

A cast-iron ball, of 4 inches in diameter, is put into a cylindrical copper vessel, open at top, the vessel and ball then together weighing 11 lb.; but the remainder of the vessel being then filled up with water, the whole was found to poise with 60 lb. Now the inside diameter of the vessel being double its depth, all its dimensions may be hence found: Query how?

XIV. QUESTION (1057), by Mr John Sowerby, of Dudley.

If a grinding stone, 36 inches in diameter, and weighing 5 cwt. make 750 revolutions in one minute; what is the centrifugal force, or tendency it has to burst?

Dr. Hutton would be glad of the communication of the memoirs of the life of this gentleman's uncle, which shall have all due attention paid to them.

N. B. Dr. Hutton's new Course of Mathematics is just issued from the Press. It is comprised in 2 vols. octavo, and is peculiarly adapted to the use of Schools and all seminaries of learning. The price of the 2 vols. (it is expected) will be about 16s. bound.

XV. or PRIZE QUESTION (1058), by Mr John Howard, of Newcastle.

To construct the great circle triangle AVB, having given the vertical angle V, and the difference between each side and its adjacent segment of the base, made by a perp. let fall on it from the vertical angle, viz. AV — AP and BV — BP.

* * The prizes for the several solutions have been determined by Lot as follows: First, for the Prize Question, to Mr J. Howard and Mr J. Surtees, each 10 Diaries. — 2d, for the Prize Enigma, to Miss Eliza Still and Miss A. T. each 8 Diaries. — 3d, for the General Answers to the Enigmas, to Mr W. Buttman and Mr R. Waller, each 8 Diaries. — 4th, for the Replies, Queries, &c. J. Bayley and Wm. Saint, each 6 Diaries: All of whom will please to send some person in London to call for them, on their account, at Stationers Hall.

Pieces for the use of the Diary, to be directed thus, viz. To the Author of the Ladies' Diary, Stationers Hall, London. The letters to be post-paid or franked, otherwise they will not be received; and the last of them to be sent, at the latest, before the end of April, otherwise they cannot be inserted; but those for the solution of the Prize Enigma and Prize question, before Candlemas Day. And along with all new Questions, Enigmas, Replies, and Gbarades, their answers must be sent.

F I N I S.

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OR, A LOYAL
ALMANACK

For the Year of HUMAN REDEMPTION

1799,

Being the Third after BISSEXTILE, or LEAP-YEAR.

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[Price Sixteen Pence, fitched.]

JANUARY XXXI Days.

Roufe up, *Minerva*, and direct my Pen,
That I may tell how Things will be, and when:
When Starry Fate our Harm will lefs confpire,
And War, that Scourge of Nations, will expire.
All Hands aloft, ward off that secret Hate,
That feeks to overturn our Church and State.

M	W	Fasts and Festivals.	☉	D's Signs	D's A	D rises and sets	Mutual Asp. and Weather
D	D		℥				
1	Th	Circumcision	11	secret	25	2 m 40	The year
2	W	Day break 5 58	12	memb.	26	4 3	begins with
3	Th	Tw. ends 6 2	13	hips	27	5 28	favourable
4	F	Day 7 54 long	14	thighs	28	6 48	Δ ♃ ♀
5	S	Old Christ. Day	15	knees	29	7 55	weather.
6	F	Epiph. Tw. Day	16	hams	N	sets	Δ ☉ ♃
7	M	Plough Monday	17	legs	1	5 a 8	Sleet or
8	Tu	Lucian.	18	and	2	6 20	showers.
9	W	Night 15 56 l.	19	ankles	3	7 35	8 ℥ ♀, 6 ♀ ♀
10	Th	Day incr. 0 22	20	feet	4	8 46	6 ☉ ♀, 8 ℥ ♀
11	F	℥ sets 8 36 m.	21	toes	5	9 56	Cold winds,
12	S	Old N. Y's. Day	22	head	6	11 5	8 ☉ ℥ with
13	F	1 S. a. Ep. Hil.	23	C. T. b	7	morn.	☐ ♀ ♀ frost
14	M	Oxf. Term beg.	24	face	8	0 12	Δ ♃ ♀ and
15	Tu	℥ sets 2 40 m.	25	neck	9	1 23	fnov.
16	W	♂ sets 0 3 m.	26	throat	10	2 35	
17	Th	Old Twelfth Day	28	arms	11	3 50	
18	F	Q. Char. b. d. k.	29	Prisca	12	5 3	Cloudy dull
19	S	♀ sets 4 35 aft.	☿	breast	13	6 16	☐ ℥ ♂
20	F	Septuages. Sund.	1	Fabian.	14	7 17	weather.
21	M	Agnes.	2	stom.	F	rises	
22	Tu	Vincent.	3	heart	16	5 a 5	Rugged
23	W	Term begins.	4	back	17	6 32	weather, but
24	Th	Day break 5 40	5	bowels	18	8 3	open for the
25	F	Conv. St. Paul	6	belly	19	9 28	most part.
26	S	Tw. ends 6 22	7	reins	20	10 53	
27	F	Sexag. Pr. Aug.	8	loins	21	morn.	
28	M	Fi. E.	9	secret	22	0 19	Cold winds,
29	Tu	Day 8 56 long	10	memb.	23	1 43	with sleet
30	W	K. Ch. I. mart.	11	hips	24	3 8	☐ ♃ ♀
31	Th	Night 14 56 l.	12	thighs	25	4 26	or showers.

The 5 day, at 12 night, Venus
 The 6 day, at 11 night, Mercury
 The 13 day, at 4 aftern. Mars
 The 16 day, at 1 morn. Jupiter
 The 21 day, at 1 morn. Saturn

}

is with
the Moon.

M	Sun	Sun	Moon
D	rises	sets	South
1	8 53	55	7 m 44
2	8 43	56	8 35
3	8 33	57	9 30
4	8 33	57	10 26
5	8 23	58	11 23
F	8 13	59	0 a 20
7	8 04	0	1 14
8	7 59	4	1 2
9	7 58	4	2 2 50
10	7 57	4	3 3 33
11	7 56	4	4 4 14
12	7 55	4	5 4 53
F	7 54	4	6 5 32
14	7 53	4	7 6 13
15	7 52	4	8 6 55
16	7 51	4	9 7 41
17	7 49	4	11 8 30
18	7 48	4	12 9 24
19	7 47	4	13 10 21
F	7 45	4	15 11 21
21	7 44	4	16 morn.
22	7 42	4	18 0 20
23	7 41	4	19 1 17
24	7 40	4	20 2 12
25	7 38	4	22 3 3
26	7 37	4	23 3 53
F	7 35	4	25 4 42
28	7 33	4	27 5 32
29	7 32	4	28 6 23
30	7 30	4	30 7 16
31	7 28	4	32 8 11

Monthly Observations.

Rain fallen in Jan. 1797, at London, was 1,05 Inches.

Rain or Snow (more or less) within the *Triduum* of three Days; the following are the middle of those Days,

NEW MOON 6 day, at 4 morn.

namely, the 8th, 12th, 16th, 22d, and 28th Days of this Month.

Courteous Reader,

You here, as usual, have the Depth of Rain fallen in each of the Months at London, as it was taken by the RAIN

FIRST Quart. 14 day, at 4 morn.

GAGE fixed upon *Somerset House*, in the *Strand*; the Depth of each Month's Rain is put down in Inches and decimal Parts of an Inch; the Depth of which, in the whole Year of 1797, at that Place, amounted to 24 Inches ve-

FULL Moon 21 day, at 6 aftern.

ry near. Under the Depth of Rain fallen at London, you have, for the Use of this Year 1799, some particular Days of each of the Months pointed out, by Way of Proof of Planetary Influences, wherein Rain or Snow, with-

LAST Quart. 28 day, at 11 morn.

in the short Compass of three Days,

is

4. **FEBRUARY XXVIII Days.**

Take Courage, Britain, God's great Providence
Does you protect, will still be your Defence;
Your Sons unite; conduct your Measures well,
And Britons still shall o'er their Foes prevail.—
But, hold! methinks I'm interrupted here,
And bid for some unwelcome News prepare.

M	W	Fasts and Festivals.	☉	D's Signs	D ^s	D rises and sets	Mutual Asp. and Weather
D	D		=		A		
1	F	Day incr. 1 23	13	knees	26	5 m 37	Δ 4 ♀
2	S	Purif. or Candl.	14	and	27	6 36	Moderate
3	F	Shrove S. Blafe.	15	hams	28	7 26	weather at
4	M		16	legs	N	sets	♁ ♀
5	Tu	Shro. T. Agatha.	17	anles	1	5 a 12	the begin-
6	W	Ash Wednesday	18	feet	2	6 24	☐ ☉ 4 ning.
7	Th	h sets 6 11 mo.	19	toes	3	7 36	Frosty, un-
8	F	u sets 1 4 mo.	20	head	4	8 46	constant
9	S	♁ sets 11 44 a.	21	and	5	9 53	weather,
10	F	1 Sun. in Lent	22	face	6	11 3	snow or rain.
11	M	♀ sets 5 43 aft.	23	neck	7	morn.	Frosty, and
12	Tu	Term ends.	24	throat	8	0 13	<i>Cam. T. d. m.</i>
13	W	Emb. W. Old	25	arms	9	1 26	more fair.
14	Th	Valentine [Cand.	26	and	10	2 40	
15	F	Day break 5 8	27	should.	11	3 51	* ♂ ♀
16	S	Twi. ends 6 54	28	breast	12	4 58	Temperate
17	F	2 Sun. in Lent	29	stom.	13	5 53	and more
18	M	Day 10 8 long	30	heart	14	6 36	open wea-
19	Tu	Night 13 48 l.	1	back	15	7 6	ther.
20	W	Day incr. 2 33	2	bowels	F	rises	Cold winds
21	Th	h sets 5 15 mo.	3	belly	17	7 a 1	☐ ♂ ♀
22	F	u sets 0 13 m.	4	reins	18	8 31	begin to
23	S	♁ sets 11 34 a.	5	loins	19	9 59	{ * ♂ 4
24	F	3 S. in Lent. St. Matthias.	6		20	11 29	{ Δ ♀
25	M	[Pr. Ad. Fr. b.]	7	secret	21	morn.	{ * 4 ♀
26	Tu	♀ sets 6 36 aft.	8	memb.	22	0 56	☐ 4 ♀
27	W	Day break 4 47	9	hips	23	2 19	blow, with
28	Th	Twi. ends 7 15	10	thighs	24	3 34	fleet or rain.

JUPITER will be an Evening Star till May 30; then a Morning Star till December 17; after that an Evening Star.

MOORE. FEBRUARY, 1799. 5

The 2 day, at 4 aftern. Mercury
 The 5 day, at 3 aftern. Venus
 The 11 day, at 12 noon, Mars
 The 12 day, at 1 aftern. Jupiter
 The 17 day, at 8 morn. Saturn

} is with
the Moon.

M	Sun	Sus	Moon	Monthly Observations:
D	rises	sets	South	
1	7 27	4 33	9 m 7	<i>Rain fallen in Feb. 1797, at London, was 0,24 Inches.</i>
2	7 25	4 35	10 3	
F	7 23	4 37	10 58	Rain or Snow (more or less) on the
4	7 22	4 38	11 49	NEW Moon 4 day, at 8 night
5	7 20	4 40	0 a 37	4th, 13th, 24th, and 26th Days of this Month; the Day before or the Day after, namely, within the three Days.
6	7 18	4 42	1 22	
7	7 16	4 44	2 4	is to be expected; the Quantity of which will be more or less, and this from the Position of the Planets in the different Parts of the Zodiac, and
8	7 14	4 46	2 44	
9	7 13	4 47	3 23	FIRST Quart. 13 day, at 1 morn.
F	7 11	4 49	4 3	
11	7 9	4 51	4 44	their relative Situation to each other, founded on my own Experience and Observation. — These Observations, with the Weather given in the Columns, make up our Judgment of the
12	7 7	4 53	5 28	
13	7 5	4 55	6 15	FULL Moon 20 day, at 5 morn.
14	7 3	4 57	7 6	
15	7 1	4 59	8 1	State of the Weather for that Month; and this is to be classed with a good
16	7 0	5 0	8 59	
F	6 58	5 2	9 59	WEATHER GLASS, well made and well adjusted, which no FARMER, or GRAZIER, &c. should be without;
18	6 56	5 4	10 59	
19	6 54	5 6	11 56	LAST Quart. 26 day, at 8 night
20	6 52	5 8	morn.	
21	6 50	5 10	0 50	as
22	6 48	5 12	1 43	
23	6 46	5 14	2 34	
F	6 44	5 16	3 25	
25	6 42	5 18	4 18	
26	6 40	5 20	5 12	
27	6 38	5 22	6 7	
28	6 36	5 24	7 4	

Venus will be an Evening Star till October 16; then a Morning Star for the rest of the Year.

MARCH XXXI Days.

Great Preparations in some Parts are made,
 Mischievous Projects most profoundly laid;
 Disorders come, with Discontent and Jars,
 Rapines, and Murders, and Intefine Wars.
 Deep Thoughts have those who mighty Sceptres weild;
 Great Consultations in this Month there's held.

D	W D	Fasts and Festivals.	☉ ☿	D's Signa	D's A	☾ rises and sets	Mutual Asp. and Weather
1	F	David.	11	and	25	4m 36	March
2	S	Chad	12	hams	26	5 24	comes in fine
3	F	Midlent Sunday	13	legs	27	5 56	and temper
4	Th	Day 11 2 long	14	anclcs	28	6 21	* h ♂
5	Tu	Night 12 50 lo.	15	feet	29	6 40	ate.
6	W	Day incr. 3 27	16	and	N	sets	
7	Th	Perpetua	17	toes	1	6 a 36	♂ ♀ ♂
8	F	h sets 4 20 m.	18	head	2	7 46	Brisk winds,
9	S	♂ sets 11 36 a.	19	face	3	8 54	△ ☉ h
10	F	5 Sun. in Lent	20	neck	4	10 5	and perhaps
11	M	♂ sets 11 48 a.	21	and	5	11 18	some show-
12	W	Gregory	22	throat	6	morn.	* ☉ ♀
13	Tu	♀ sets 7 27 aft.	23	arms	7	0 30	ers of rain.
14	Th	Day br. 4 15	24	should.	8	1 42	Thunder in
15	F	Cam. Term ends	25	breast	9	2 51	△ h ♂
16	S	Oxf. Term ends	26	stom.	10	3 48	some places.
17	F	Palm's Patrick	27	heart	11	4 34	* ♀ ♂
18	M	Edw. K. W. S.	28	and	12	5 10	
19	Tu	Tw. ends 7 56	29	back	13	5 35	* ☉ ♂
20	W	Day 12 6 long	☿	bowels	14	5 56	□ h ♀ * ♂ ♂
21	Th	Benedict. Maun.	1	belly	F	rises	♂ ☉ ♂
22	F	Good Frid. [Th.	2	reins	16	7 a 33	Some cold
23	S	Night 11 42 lo.	3	loins	17	9 6	storms, if
24	F	Easter Day	4	seacet	18	10 39	not some
25	M	Lady-d. East. M.	5	memb.	19	morn.	frosts.
26	Tu	Easter Tuesday	6	hips	20	0 8	
27	W	Day incr. 4 51	7	thighs	21	1 30	Pleasant
28	Th	h sets 3 4 mo.	8	knees	22	2 38	days, but
29	F	♂ sets 10 42 aft.	9	hams	23	3 31	frosty
30	S	♂ sets 11 48 aft.	10	legs	24	4 9	□ h ♂
31	F	Low Sunday	11	anclcs	25	4 35	nights.

The 5 day, at 7 morn. Mercury	} is with the Moon.
The 7 day, at 12 night, Venus	
The 12 day, at 3 morn. Jupiter	
The 12 day, at 10 morn. Mars	
The 16 day, at 4 aftern. Saturn	

M	Sun rises	Sun sets	Moon South	Monthly Observations.
1	6 34	5 26	8 m 1	Rain fallen in March, 1797, at London, was 0,85 Inches.
2	6 32	5 28	8 56	Rain or Snow, more or less, on the 6th, 19th, 21st, 25th, and 30th Days of this Month; the Day before or the
F 6	6 30	5 30	9 48	NEW Moon 6 day, at 2 aftern.
4	6 29	5 31	10 36	Day after; namely within the Triduum of three Days.
5	6 27	5 33	11 22	as it will be very useful to him in Hay-Time and Harvest, if properly attended to.—But I must now hasten to other Particulars.
6	6 25	5 35	0 a 4	FIRST Quart. 14 day, at 6 aM.
7	6 23	5 37	0 45	<i>Astrological Observations, &c. on Mundane Affairs.</i>
8	6 21	5 39	1 25	WE are by Divine Permission arrived to this Year 1799, in which many
9	6 19	5 41	2 4	FULL Moon 21 day, at 3 aftern;
F 6	6 17	5 43	2 45	great and eminent Transactions may be expected—Mankind tremble, some Nations begin both to fear and feel their approaching Destiny.—The most material Aspect of Violence amongst the Planets that happen in this Month
11	6 15	5 45	3 28	Last Quart. 28 day, at 8 morn.
12	6 13	5 47	4 13	is the <i>Conjunction</i> of Jupiter and Mars; it shews the Motion and Engaging of Armies,
13	6 11	5 49	5 2	
14	6 9	5 51	5 51	
15	6 7	5 53	6 50	
16	6 5	5 55	7 48	
F 6	6 3	5 57	8 47	
18	6 1	5 59	9 44	
19	5 59	6 1	10 39	
20	5 57	6 3	11 33	
21	5 55	6 5	morn.	
22	5 53	6 7	0 26	
23	5 51	6 9	1 19	
F 5	5 49	6 11	2 13	
25	5 47	6 13	3 8	
26	5 45	6 15	4 5	
27	5 43	6 17	5 4	
28	5 41	6 19	6 2	
29	5 39	6 21	6 59	
30	5 37	6 23	7 53	
F 5	5 35	6 25	8 42	

Great Things approach, swift Time prepares the Way
 For mighty Works, we Mortals must obey;
 When the Eternal Power speaks aloud,
 Kings must submit, and so must all their Crowd.
 Slowly Fate moves, but certainly will come,
 As sure as Day attends the rising Sun.

M	W	Fasts and Festivals	☉	D's Signs	D's	D rises and sets	Mutual Asp. and Weather
D	D		☿		A		
1	M	♀ sets 8 33 aft.	12	feet	26	4 m 56	Now expect
2	Tu	Day break 3 30	13	and	27	5 11	some fruitful
3	W	<i>Oxf. & C. T. b</i>	14	toes	28	5 23	showers.
4	Th	<i>Ambrose [Rich.</i>	15	head	29	5 35	
5	F	<i>Old Lady-Day.</i>	16	and	N	sets	Cold winds
6	S	Twi. ends 8 40	17	face	1	8 a 0	now about,
7	P	2 S. after Easter	18	neck	2	9 12	from the east
8	M	Day 13 22 long	19	throat	3	10 28	or north-
9	Tu	Night 10 34 lo.	20	arms	4	11 42	☐ ☉ ♄
10	W	<i>Term begins</i>	21	and	5	morn.	east.
11	Th	Day incr. 5 49	22	should.	6	0 50	
12	F	♄ sets 2 12 mo.	23	breast	7	1 51	Fine wea-
13	S	♃ sets 10 5 aft.	24	stom.	8	2 40	ther and
14	P	3 S. after Easter	25	heart	9	3 18	* ♄ ♀
15	M	♂ sets 11 44 aft.	25	back	10	3 44	pleasant for
16	Tu	♀ sets 9 25 aft.	26	bowels	11	4 7	the season of
17	W	Day break 2 52	27	belly	12	4 26	the year.
18	Th	Twi. ends 9 10	28	reins	13	4 41	
19	F	<i>Alphege</i>	29	loins	F	rises	Winds now
20	S	Day 14 6 long	8	secret	15	8 a 10	about, with
21	P	4 S. after Easter	1	memb.	16	9 46	* ♄ ♀
22	M	Night 9 46 lo.	2	hips	17	11 14	♄ ♃ ♀
23	Tu	St. George	3	thighs	18	morn.	some small
24	W	Day incr. 6 39	4	knees	19	0 32	frosts.
25	Th	St. Mark. Prs.	5	hams	20	1 34	
26	F	[Ma. b.	6	legs	21	2 17	
27	S	♄ sets 1 20 mo	7	and	22	2 47	Fine at the
28	P	Rogation Sund.	8	anles	23	3 9	end.
29	M	♃ sets 9 27 aft.	9	feet	24	3 25	
30	Tu	♂ sets 11 35 aft.	10	toes	25	3 39	* ♄ ♀

The 6 day, at 7 aftern. Mercury	} is with the Moon.
The 7 day, at 12 noon, Venus	
The 8 day, at 8 night, Jupiter	
The 10 day, at 2 morn. Mars	
The 13 day, at 1 morn. Saturn	

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

Monthly Observations.

Rain fallen in April, 1797, at London, was 2,04 Inches.

Rain or Sleet (more or less) on the 5th, 9th, 14th, and 20th Days of this

NEW Moon 5 day, at 7 morn.

Month; the Day before or the Day after; namely, within the three Days.

Armies, and the usual Misfortunes and Miseries attending the same; the Loss of Honour or Death of a Prince or Commander of the first Degree.—I

FIRST Quart. 13 day, at 8 morn.

wish all will yet be well in *Ireland*; tho' it look as if some more Mischief was contriving in that Country, by the restless Phætons of the Church of *Rome*, or some of their Emissaries.—The Af-

FULL Moon 19 day, at 12 night

fairs of *Europe* go on heavily; *France*, and also some other Places, apprehend Danger.—*Italy* is threatened with Inroads.—The Affairs in *Germany* are not yet quite settled, the People in ge-

LAST Quart. 26 day, at 9 night

neral are full of Fears and Complaints; and well they may, for they have Reason so to be.

Spain,

Betwixt Mount Gebal and Mount Gerisim,
 Our faint and tott'ring Hopes long plac'd have been;
 We've long been in Suspence, whether or not
 A Blessing or a Curse would be our Lot.
 May Heav'n, in Mercy, give the happy State,
 And guard *Old England* from the Darts of Fate.

M	W	Fasts and Festivals.	Q	S's Signs	D's	D rises and sets	Mutual Asp and Weather
D	D		8		A		
1	W	St. Phil. & James	11	head	26	3 m 51	May comes
2	Th	Asc. Holy Thurs	12	and	27	4 1	in rather
3	F	Inv. of the Cross	13	face	28	4 13	cold.
4	S	♀ sets 10 23 a.	14	neck	N	sets	
5	F	S. aft. Ascension	15	throat	1	8 a 23	Rather
6	M	Term ends. John	16	arms	2	9 35	windy, but
7	Tu	[Ev. A.P.L.]	17	and	3	10 46	♂ ⊙ ♀
8	W	Day break 1 40	18	shculd	4	11 50	fine for the
9	Th	Oxf. Term ends	19	breast	5	morn.	season.
10	F	Twi. ends 10 32	20	stom.	6	0 43	
11	S	Day 15 20 long	21	heart	7	1 23	Cold wea-
12	F	O. May D	22	back	8	1 53	* ⊙ ♀
13	M	Whit. S.	23	bowels	9	2 16	ther a few
14	Tu	Whit. Tuesday	24	belly	10	2 34	days.
15	W	Ember Week	25	reins	11	2 49	
16	Th	Night 8 24 long	26	loins	12	3 4	Fine and
17	F	Prs. of Wales b.	27	secret	13	3 19	pleasant.
18	S	Day incr. 7 59	27	memb.	14	3 36	spring wea-
19	F	Trin. S. Q. Ch. b.	28	Dunst.	F	rises	ther.
20	M	[Cam. T. d. m.]	29	and	16	10 a 9	
21	Tu	♂ sets 11 49 aft.	11	thighs	17	11 20	Fine and
22	W	Prs. Eliz. b.	18	and	18	morn.	seasonable
23	Th	Corpus Christi	2	hams	19	0 12	weather.
24	F	Term begins	3	legs	20	0 49	More cool
25	S	♀ sets 8 16 a.	4	ankles	21	1 14	with fre-
26	F	S. aft. Trin.	5	August.	22	1 32	quent show-
27	M	Venerable Bede	6	and	23	1 46	♂ ♂ ♀ ers
28	Tu		7	toes	24	1 59	of rain, if
29	W	K. Charles II. ret.	8	head	25	2 10	not thunder.
30	Th	♂ sets 10 54 a.	9	face	26	2 20	♂ ⊙ ♀
31	F	♀ sets 11 6 aft.	10	neck	27	2 33	* ♀ ♀

The 5 day, at 8 morn.	Mercury	} is with the Moon.
The 6 day, at 2 aftern.	Jupiter	
The 7 day, at 6 aftern.	Venus	
The 8 day, at 8 night,	Mars	
The 10 day, at 10 morn.	Saturn	

M D	Sun rises	Sun sets	Moon South	Monthly Observations.
1	4 37	7 23	9m 38	Rain fallen in May, 1797, at Lon- don, was 1,58 Inches.
2	4 35	7 25	10 17	Rain (more or less) on the 6th, 12th, NEW Moon 4 day, at 12 night
3	4 33	7 27	10 57	19th, 23d, and 27th Days of this
4	4 31	7 29	11 38	The Planet Mercury may be seen
F 4	4 30	7 30	0 a 22	in the Sun on the 7th Day.
6	4 28	7 32	1 8	Month; the Day before or the Day after; namely, within the three Days.
7	4 26	7 34	1 58	
8	4 25	7 35	2 51	
9	4 23	7 37	3 46	
10	4 21	7 39	4 41	
11	4 20	7 40	5 36	FIRST Quart. 12 day at 5 aftern;
F 4	4 18	7 42	6 29	<i>Spain</i> , that was formerly Mistress of the World, will soon have her Glory buried in Oblivion, her Troubles in- crease, and her Relief but weak and faint.— <i>Rome Papal</i> , prepare thyself to receive Showers of Judgments, thou
13	4 17	7 43	7 20	FULL Moon 19 day, at 8 morn.
14	4 15	7 45	8 10	that hath filled the Earth with Blood, the Church with Heresy, the World with Sedition, Kingdoms with Fac- tions, and the like.—Some great Pro- ject is now much talked of, but it va-
15	4 14	7 46	9 0	LAST Quart. 26 day, at morn.
16	4 12	7 48	9 51	ishes in Smoke.—The <i>French Na-</i> <i>tion</i> is full of Troubles and Tu- mults.
17	4 11	7 49	10 44	
18	4 9	7 51	11 40	
F 4	4 8	7 52	morn.	
20	4 7	7 53	0 40	
21	4 5	7 55	1 41	
22	4 4	7 56	2 42	
23	4 3	7 57	3 41	
24	4 2	7 59	4 37	
25	4 0	8 0	5 27	
F 3	3 59	8 1	6 13	
27	3 58	8 2	6 56	
28	3 57	8 3	7 37	
29	3 56	8 4	8 16	
30	3 55	8 5	8 55	Turbulent
31	3 54	8 6	9 37	

Behold here's a new Crowd of Causes met,
 Nor have the Planets done their Errand yet.
 Consider well the Acts of some past Years,
 New Matter now for a new Scene prepares;
 We've Cause to fear some lurking Knaves there be,
 That still are hatching of more Villainy.

M	W	Fasts and Festivals.	O	H's Signs	D's	D rises and sets	Mutual Asp. and Weather
D	D		II		A		
1	S	Nicomede.	11	and	28	2 m 45	Fair and hot.
2	P	2 S. after Trin.	12	throat	29	3 3	
3	M	All day-light	13	arms	N	fets	Cloudy and
4	Tu	K. Geo. III. b.	14	should	1	9 a 42	more cool,
5	W	Pr. Ern. Aug. b.	15	breast	2	10 39	with flying
6	Th	[Boniface.	16	om.	3	11 22	♂ ♀
7	F	or twilight	17	heart	4	11 56	* ♀
8	S	till July 29.	18	and	5	morn.	showers.
9	P	3 S. after Trin.	19	back	6	0 19	
10	M	Day 16 28 long	20	bowels	7	0 38	
11	Tu	St. Barnabas	21	belly	8	0 53	Fair and hot
12	W	Term ends	22	reins	9	1 7	about this
13	Th	Night 7 28 lo.	23	loins	10	1 21	time.
14	F	Day incr. 8 46	24	secret	11	1 37	
15	S	h sets 10 20 a.	25	memb.	12	1 56	Some thun-
16	P	4 S. after Trin.	26	hips	13	2 20	♂ ♀
17	M	St. Alban	27	thighs	F	rises	der showers
18	Tu	♂ rises 2 57 m.	28	knees	15	9 a 55	in some
19	W	♂ sets 10 12 a.	29	hams	16	10 40	places.
20	Th	Tran. Ed. K. W. S	30	legs	17	11 10	♂ ♀
21	F	Longest Day	0	ankles	18	11 31	
22	S	is 16 h. 34 m.	1	feet	19	11 48	Cooling
23	P	5 S. after Trin.	2	and	20	morn.	gales of
24	M	Nativ. J. Bapt.	3	toes	21	0 0	wind now
25	Tu	[Midsum	4	head	22	0 12	* ♀
26	W	♀ sets 10 36 a.	5	face	23	0 23	about.
27	Th	Day 16 32 long	6	neck	24	0 34	
28	F	Night 7 28 lo.	7	and	25	0 47	Fine sum-
29	S	St. Peter	8	throat	26	1 3	mer wea-
30	P	6 S. after Trin.	9	arms	27	1 23	ther.

The 1 day, at 12 noon, Mercury
 The 3 day, at 9 morn. Jupiter
 The 6 day, at 10 morn. Mars
 The 6 day, at 8 night, Venus
 The 6 day, at 9 night, Saturn

} is with the Moon.

M D	Sun rises	Sun sets	Moon South	Monthly Observations.
1	3 53	8 7	10 m 17	Rain fallen in June, 1797, at London, was 4,64 Inches. NEW Moon 3 day, at 3 aftern.
F 3	3 52	8 8	11 3	
3	3 51	8 9	11 52	
4	3 50	8 10	0 45	Rain (more or less) on the 6th, 17th, with Thunder, 20th, and 25th Days of this Month; the Day before or the Day after; namely, within the three Days.
5	3 49	8 11	1 39	
6	3 47	8 11	2 35	
7	3 48	8 12	3 30	FIRST Quart. 10 day, at 11 night
8	3 47	8 13	4 23	
F 3	3 47	8 13	5 14	
10	3 46	8 14	6 3	Turbulent Councils in Spain, France, and among the Italian Princes. Reports railed to amuse the People, as if some secret Treaty was now on the Anvil of State.—However, about this
11	3 45	8 15	6 51	
12	3 45	8 15	7 40	
13	3 44	8 16	8 30	FULL Moon 17 day, at 4 aftern.
14	3 44	8 16	9 23	
15	3 44	8 16	10 19	
F 3	3 44	8 16	11 18	Time, some secret Intrigues of a neighbouring Nation will be discovered much to the Advantage of England, and its Enemies great Mortification.—The Conjunction of Saturn and Mars, at this Time, do incline Men's Minds to violent, daring, and dangerous Enterprises.—This is like to be a very active Summer.—The French and Hollanders in a Hurry; and some other Nations and Kingdoms also.
17	3 43	8 17	morn.	
18	3 43	8 17	0 20	
19	3 43	8 17	1 20	LAST Quart. 25 day, at 3 morn.
20	3 43	8 17	2 19	
21	3 43	8 17	3 12	
22	3 43	8 17	4 1	Great
F 3	3 43	8 17	4 46	
24	3 43	8 17	5 27	
25	3 43	8 17	6 7	
26	3 44	8 16	6 47	
27	3 44	8 16	7 27	
28	3 44	8 16	8 8	
29	3 44	8 16	8 53	
F 3	3 45	8 15	9 40	

Gladly I would of Europe's peaceful Fate
 Once sing; but find all Kingdoms, ev'ry State,
 Infected with French Guilt; Counsels betray'd,
 Designs defeated, some too long delay'd.
 Some blindfold run upon such dang'rous Shelves,
 Ruin their Neighbours first, and then themselves.

M	W	Fasts and	☉	☽	V's	D rises	Mutual Asp.
D	D	Festivals.	♌	♍	A	and sets	and Weathe
1	M	Day 16 30 long	10	should.	28	1 m 50	Now expect
2	Tu	<i>Visit. Cam. Com.</i>	10	breast	29	2 29	some show-
3	W	<i>Dog Days beg.</i>	11	and	N	sets	ers of rain.
4	Th	<i>Transf. St. Mart.</i>	12	stom.	1	9 a 52	♁ ☉ ♀
5	F	<i>Cam. T. ends. O.</i>	13	heart	2	10 17	
6	S	[<i>Midsum.</i>	14	back	3	10 38	Fair and
7	F	<i>7 S. a. T. Tho. à</i>	15	bowels	4	10 54	hot about
8	M	<i>Oxf. All [Beck.</i>	16	belly	5	11 9	this time.
9	Tu	Night 7 42 long	17	reins	6	11 22	
10	W	Day decr. 0 17	18	loins	7	11 37	
11	Th	♄ sets 8 37 aft.	19	secret.	8	11 55	♁ ♃ ♀
12	F	♃ rises 1 30 m.	20	memb.	9	morn.	Winds, with
13	S	<i>Oxf. Term ends</i>	21	hips	10	0 15	gentle show-
14	F	<i>8 S. after Trin.</i>	22	thighs	11	0 45	ers now a-
15	M	<i>Switthin</i>	23	knees	12	1 28	bout.
16	Tu	♄ sets 9 6 aft.	24	hams	13	2 25	
17	W	♀ sets 9 48 aft.	25	legs	F	rises	Good hay
18	Th	Day 16 0 long	26	and	15	9 a 37	weather.
19	F	Night 8 2 long	27	ankles	16	9 47	
20	S	<i>Margaret</i>	28	feet	17	10 2	
21	F	<i>9 S. after Trin.</i>	29	toes	18	10 14	Wind and
22	M	<i>Magdalen</i>	♃	head	19	10 25	♁ ☉ ♃ ♁ ♃ ♀
23	Tu	Day decr. 0 46	1	and	20	10 37	rain, if not
24	W	Day break 0 40	1	face	21	10 48	* ♃ ♀
25	Th	<i>St. James</i>	2	neck	22	11 2	thunder
26	F	<i>St. Anne</i>	3	throat	23	11 20	about this
27	S	Twi. ends 10 57	4	arms	24	11 45	time.
28	F	<i>10 S. aft. Trin.</i>	5	and	25	morn.	
29	M	Day 15 30 long	6	should.	26	0 20	* ♃ ♁ ☉ ♃ ♀
30	Tu	Night 8 32 lo.	7	breast	27	1 7	Fine wea-
31	W	Day decr. 1 10	8	stom.	28	2 10	ther.

The 1 day, at 4 morn. Jupiter
 The 2 day, at 11 night, Mercury
 The 4 day, at 8 morn. Saturn
 The 5 day, at 1 morn. Mars
 The 6 day, at 2 aftern. Venus
 The 29 day, at 2 morn. Jupiter
 The 31 day, at 11 night, Saturn

} is with
 the Moon.

M	Sun rises	Sun sets	Moon South	Monthly Observations.
1	3 45	8 15	10 m 31	Rain fallen in July, 1797, at London, was 1,42 Inches.
2	3 46	8 14	11 26	
3	3 46	8 14	0 a 22	NEW Moon 3 day, at 3 morn.
4	3 47	8 13	1 18	Rain (more or less) on the 4th, 10th, 17th, 22d, and 25th Days of this Month; the Day before or the Day after; namely, within the three Days.
5	3 48	8 12	2 13	Be careful to attend to your Weather-Glas's also this Hay-Time.
6	3 48	8 12	3 5	
F	3 49	8 11	3 55	
8	3 50	8 10	4 44	
9	3 51	8 9	5 31	
10	3 51	8 9	6 20	FIRST Quart. 10 day, at 4 morn.
11	3 52	8 8	7 11	
12	3 53	8 7	8 4	Great will be the Actions of this Month, and most Nations are alarmed with Wars and Rumours of Wars; the Sea swells with great Navies of Ships.—Now the Power of France is
13	3 54	8 6	9 1	
F	3 55	8 5	10 1	
15	3 56	8 4	11 1	
16	3 58	8 2	morn.	
17	3 59	8 1	0 0	FULL Moon 17 day, at 1 morn.
18	4 0	8 0	0 56	like to receive a Shock.—A sore Sickness rages in Italy and the Eastern Parts of Germany.—The Turks and Tartars suffer by Insurrections, and other Disturbances, and the Affairs of the North are not in a good Situation.—France
19	4 1	7 59	1 47	
20	4 2	7 58	2 34	
F	4 4	7 56	3 18	
22	4 5	7 55	3 59	
23	4 6	7 54	4 39	
24	4 7	7 53	5 19	LAST Quart. 24 day, at 9 night.
25	4 9	7 51	5 59	is involved in great Difficulties (as well as some of her Neighbours) many secret Intrigues and Mal-Practices appear amongst the Inhabitants of that
26	4 10	7 50	6 42	
27	4 12	7 48	7 28	
F	4 13	7 46	8 18	Republic.
29	4 15	7 45	9 11	
30	4 16	7 44	10 8	News
31	4 18	7 42	11 5	

From all Parts, Sea and Land, methinks, I see
 The dreadful Signs of Death and Destiny:
 View well the Rays, the angry Stars prepare
 All sorts of Cruelty, the Rage of War.
 Here's Anger, Discord, Fury, Fear, Mistake,
 And all besides that can Man's Ruin make.

M	W	Fasts and Festivals.	☉	D's Signs	D's A	D rises and sets	Mutual Asp. and Weather
1	Th	Lammas Day	9	heart	N	sets	Fine weather
2	F	Day break 1 27	10	back	1	8 a 39	begins the
3	S	Tw. ends 10 28	11	bowels	2	8 59	month.
4	F	11 S. aft. Trin.	12	belly	3	9 14	
5	M	Day decr. 1 25	13	reins	4	9 29	Gentle
6	Tu	Transfig. of Christ	14	loins	5	9 43	showers
7	W	Prs. Amelia b.	15	secret	6	9 59	at this
8	Th	[Na. of Jesus	16	memb.	7	10 19	* h ♀
9	F	Day 14 56 long	17	hips	8	10 46	time.
10	S	St. Lawrence	18	thighs	9	11 23	Rather
11	F	12 S. a. Tr. Du. of Brun. b.	19		10	morn.	Dog Days e.
12	M	Pr. of Wales b.	20	knees	11	0 15	windy.
13	Th	[O. Lam.	21	hams	12	1 20	Fine and
14	W	Night 9 22 l.	22	legs	13	2 36	good harvest
15	Th	Assumption	23	ankles	F	rises	weather,
16	F	D. of York b.	24	feet	15	8 a 10	which lasts
17	S	Day decr. 2 5	24	and	16	8 22	some days.
18	F	13 S. aft. Trin.	25	toes	17	8 34	* ☉ ♃
19	M	♂ rises 2 30 mo.	26	head	18	8 46	
20	Tu	♂ rises 11 24 a.	27	face	19	8 59	Some
21	W	D. of Clar. b.	28	neck	20	9 12	thunder
22	Th	♂ sets 7 26 aft.	29	and	21	9 27	showers near
23	F	♀ sets 8 1 aft.	30	throat	22	9 49	this time.
24	S	St. Bartholomew	1	arms	23	10 19	
25	F	14 S. aft. Trin.	2	should.	24	10 59	Cloudy
26	M	Day break 2 50	3	breast	25	11 54	and windy
27	Tu	Tw. ends 9 7	4	stom.	26	morn.	near the
28	W	St. Augustine	5	heart	27	1 6	end.
29	Th	Bebead. J. Bap.	6	back	28	2 25	
30	F	Day 13 40 long	7	bowels	N	sets	
31	S	Night 10 24 l.	8	belly	1	7 a 25	

The 2 day, at 4 aftern. Mars
 The 3 day, at 12 noon, Mercury
 The 5 day, at 1 morn. Venus
 The 25 day, at 7 aftern. Jupiter
 The 28 day, at 3 aftern. Saturn
 The 31 day, at 8 morn. Mars

} is with
 } the Moon.

M	Sun	Sun	Moan	Monthly Observations.
D	rises	sets	South	
1	4 19	7 41	o a 3	NEW Moon 1 day, at 2 aftern.
2	4 21	7 39	o 56	Rain fallen in August, 1797, at London, was 3,06 Inches.
3	4 22	7 38	1 49	Rain (more or less) on the 1st, 8th, 15th, and 18th Days of this Month; the Day before or the Day after; namely, within the three Days.—Here the
F 4	4 24	7 36	2 39	FIRST Quart. 8 day, at 9 morn.
5	4 26	7 34	3 28	Farmer must be careful to attend to his Weather-Glafs, if he has got a good one.
6	4 27	7 33	4 17	
7	4 29	7 31	5 7	
8	4 31	7 29	5 59	
9	4 32	7 28	6 55	
10	4 34	7 26	7 53	
F 4	4 36	7 24	8 53	
12	4 37	7 23	9 52	
13	4 39	7 21	10 48	News arrives about the Commotions and Differences breaking out in the
14	4 41	7 19	11 41	FULL Moon 15 day, at noon.
15	4 43	7 17	morn.	
16	4 45	7 15	o 30	Northern Parts, also from Turkey and the Eastern Parts of Germany, of some military Preparations.—It is to be wished that no raging Fever, &c. vex the City of London.—Strange Diseases afflict the Bodies of Men, but I hope
17	4 46	7 14	1 15	
F 4	4 48	7 12	1 57	
19	4 50	7 10	2 37	
20	4 52	7 8	3 17	
21	4 54	7 6	3 58	
22	4 55	7 5	4 40	LAST Quart. 23 day, at 2 aftern.
23	4 57	7 3	5 25	
24	4 59	7 1	6 12	the angry Frowns of Heaven will dart their Influence remote from us; yet we are not free from the Malignity thereof.—One Grandee appears very active in the Accusation or Impeachment of another.
F 5	5 16	6 59	7 4	
26	5 3	6 57	7 59	
27	5 5	6 55	8 55	
28	5 7	6 53	9 52	
29	5 9	6 51	10 49	
30	5 10	6 50	11 43	NEW Moon 30 day, at 11 night
31	5 12	6 48	o a 35	Many

Near to this Time a mighty Scheme is laid,
 But he that doth his Neighbour's Peace invade,
 Will, in short Time, meet a revengeful Hand,
 With Blows on ev'ry Side, by Sea and Land;
 Thus will he fare who lately look'd so high,
 And all his Glory in the Dust will lie.

M	W	Fasts and Festivals.	☉	D's Signs	D	D rises and sets	Mutual Alp. and Weather
D	D		☽		A		
		F 15 S. a. T. Giles.	9	reins	2	7 a 38	Tolerable
2	M	Lond. b. 1666	10	and	3	7 54	weather for
3	Tu	Day break 3 13	11	loins	4	8 11	the latter
4	W	Tw. ends 8 43	12	secret	5	8 30	harvest.
5	Th	Day 13 16 long	13	memb.	6	8 55	
6	F	Night 10 48 lo.	14	hips	7	9 28	Windy, with
7	S	Enurebus	15	thighs	8	10 14	some show-
8	F 16 S. aft. T. Nat.		16	knees	9	11 18	ers near
9	M	[of V. M.]	17	hams	10	morn.	♁♂♄
10	Tu	Day decr. 3 37	18	legs	11	0 31	♁♁♄
11	W	♄ rises 1 27 mo.	19	angles	12	1 50	this time.
12	Th	♄ rises 10 17 a.	20	feet	13	3 7	
13	F	♄ sets 6 29 aft.	21	and	14	4 25	
14	S	Holy Cross	22	toes	F	rises	Fine for the
15	F 17 S. aft. Trin.		23	head	16	7 a 1	♁♁♂, Δ♄♀
16	M	♀ sets 6 38 aft.	24	face	17	7 13	season, per-
17	Tu	Lambert	25	neck	18	7 25	haps thun-
18	W	Ember Week	26	and	19	7 40	der in some
19	Th	Day break 3 52	27	throat	20	7 59	places.
20	F	Tw. ends 8 5	27	arms	21	8 25	
21	S	St. Matthew	28	should.	22	9 0	
22	F 18 S. a. T. K. Geo.		29	breast	23	9 46	Frequent
23	M	[III. cr.]	♁	and	24	10 51	□♁♄
24	Tu	Day 12 2 long	1	stom.	25	morn.	showers near
25	W	Old Holy Rood	2	heart	26	0 7	this time.
26	Th	St. Cyprian	3	back	27	1 31	
27	F	Night 12 10 lo.	4	bowels	28	3 0	□♄♂
28	S	Day decr. 4 48	5	belly	29	4 29	Fine for the
29	F 19 S. aft. Tr. Ds. of Wis. b.				N	sets	season.
30	M	Jerome [St. Mic.]	7	reins	1	6 a 24	*♁♄

MOORE. **SEPTEMBER, 1799.** 19

The 1 day, at 5 morn. Mercury
 The 3 day, at 1 morn. Venus
 The 22 day, at 10 morn. Jupiter
 The 25 day, at 6 morn. Saturn
 The 27 day, at 12 night, Mercury
 The 28 day, at 12 night, Mars

} is with
the Moon.

M D	Sun rises	Sun sets	Moon South	Monthly Observations.
F	5 14	6 46	1 a 26	Rain fallen in September, 1797, at London, was 4,46 Inches.
2	5 16	6 44	2 17	Rain (more or less) on the 1st, 9th, 15th, 19th, and 29th Days of this Month; the Day before or the Day after; namely, within three Days.
3	5 18	6 42	3 8	FIRST Quart. 6 day, at 3 aftern.
4	5 20	6 40	4 1	
5	5 22	6 38	4 57	Many Embassies are on Foot, and Messengers are dispatched to and fro upon emergent Occasions; and in this the German Empire is not the least concerned.—Many notable Things are
6	5 24	6 36	5 55	
7	5 26	6 34	6 54	FULL Moon 14 day, at 3 morn.
F	5 28	6 32	7 54	
9	5 30	6 30	8 51	now acted in most Nations of Europe, and various Reports from America, of something suddenly to be done.—Great Affronts and Abuses cast upon some great Persons amongst us, and the common People very much dissatisfied; for these are fatal Times for some
10	5 32	6 28	9 44	
11	5 34	6 26	10 33	LAST Quart. 22 day, at 7 morn.
12	5 35	6 25	11 19	
13	5 37	6 23	morn.	Countries.
14	5 39	6 21	0 2	
F	5 41	6 19	0 43	O thou great JEHOVAH! when wilt thou bid thy angry Angel depart from the European Territories, and never to return again?
16	5 43	6 17	1 23	
17	5 45	6 15	2 3	NEW Moon 29 day, at 8 morn.
18	5 47	6 13	2 45	
19	5 49	6 11	3 28	The
20	5 51	6 9	4 14	
21	5 53	6 7	5 4	
F	5 55	6 5	5 57	
23	5 57	6 3	6 51	
24	5 59	6 1	7 47	
25	6 1	5 59	8 42	
26	6 3	5 57	9 37	
27	6 5	5 55	10 30	
28	6 7	5 53	11 22	
F	6 9	5 51	0 a 13	
30	6 11	5 49	1 5	

Ye bold Disturbers of Mankind, be warn'd!
 Dear costs the Glory which your Guilt has earn'd;
 Fortune awhile deceitfully may smile,
 And with smooth Hopes your secret Fears beguile;
 But Horror will succeed, and dire Remorse,
 The sure Attendants of a factious Course.

M	W	Fasts and Festivals.	☉	☽	D's	☾ rises and sets	Mutual Asp. and Weather
D	D		☽	☽	A		
1	Tu	<i>Remigius</i>	8	secret	2	6 a 41	Δ 2 ♀
2	W	Day break 4 20	9	memb.	3	7 4	Windy, but
3	Th	Tw. ends 7 35	10	hips	4	7 35	not bad
4	F	Day 11 22 long	11	thighs	5	8 18	weather.
5	S	Night 12 42 l.	12	knees	6	9 17	
6	F	20 S. aft. Trin.	13	hams	7	10 28	Fine for the
7	M	[<i>Faith</i>]	14	legs	8	11 46	☐ 2 ♀
8	Tu	Day decr. 5 27	15	and	9	morn.	season.
9	W	<i>St. Denis</i>	16	ankles	10	1 5	* h ♂
10	Th	<i>Ox. & C. T. beg.</i>	17	feet	11	2 21	Some windy
11	F	[<i>Old Mich.</i>]	18	toes	12	3 35	* h ♀
12	S	☽ rises 11 48 a.	19	head	13	4 47	♂ ♂ ♀
13	F	21 S. aft. Trin.	20	and	14	rises	wet weather
14	M	[<i>K. E. Con.</i>]	21	face	15	5 a 40	now about.
15	Tu	☽ rises 8 27 a.	22	neck	16	5 56	
16	W	☽ rises 5 39 m.	23	throat	17	6 12	♂ ☉ ♀
17	Th	<i>Eibeldred</i>	24	arms	18	6 34	Still show-
18	F	St. Luke	25	and	19	7 4	ers for the
19	S	☽ sets 4 21 aft.	26	should.	20	7 47	♂ ♀ ♀
20	F	22 S. aft. Trin.	27	breast	21	8 43	most part.
21	M	Day break 4 59	28	stom.	22	9 52	
22	Tu	Tw. ends 7 0	29	heart	23	11 11	Rough
23	W	Day 10 10 long	30	back	24	morn.	winds, and
24	Th	Night 13 54 l.	1	bowels	25	0 34	Δ ☉ 2, Δ 2 ♀
25	F	K. Geo. III. Ac.	2	<i>Crispin</i>	26	2 0	♂ ☉ ♀, ♂ ♂ ♀
26	S	K. Geo. III. Pro.	3	reins	27	3 29	showers.
27	F	23 S. aft. Trin.	4	loins	28	4 57	
28	M	St. Sim. & Jude	5	secret	N	sets	Stormy
29	Tu	Day decr. 6 44	6	memb.	1	5 a 11	☐ h ♀
30	W	☽ rises 10 46 a.	7	hips	2	5 35	weather.
31	Th	☽ rises 7 26 a.	8	thighs	3	6 15	

MOORE. OCTOBER, 1799. 21

The 1 day, at 0 morn. Venus
 The 19 day, at 7 aftern. Jupiter
 The 22 day, at 7 aftern. Saturn
 The 27 day, at 3 aftern. Venus
 The 27 day, at 6 aftern. Mars
 The 28 day, at 9 night, Mercury

} is with
 the Moon.

M D	Sun rises	Sun sets	Moon South.
1	6 13	5 47	1 a 59
2	6 15	5 45	2 56
3	6 17	5 43	3 55
4	6 19	5 41	4 56
5	6 21	5 39	5 57
F	6 23	5 37	6 55
7	6 25	5 35	7 50
8	6 27	5 33	8 40
9	6 28	5 32	9 26
10	6 30	5 30	10 9
11	6 32	5 28	10 50
12	6 34	5 26	11 30
F	6 36	5 24	morn.
14	6 38	5 22	0 10
15	6 40	5 20	0 51
16	6 42	5 18	1 34
17	6 44	5 16	2 19
18	6 46	5 14	3 6
19	6 48	5 12	3 57
F	6 50	5 10	4 50
21	6 52	5 8	5 44
22	6 54	5 6	6 38
23	6 55	5 5	7 31
24	6 57	5 3	8 23
25	6 59	5 1	9 13
26	7 1	4 59	10 4
F	7 3	4 57	10 55
28	7 5	4 55	11 48
29	7 7	4 53	0 a 44
30	7 9	4 51	1 43
31	7 10	4 50	2 46

Monthly Observations

Rain fallen in October, 1797, at London, was 21.8 Inches.

Rain (more or less) on the 8th, 12th, 18th, 24th, and 29th Days of this

FIRST Quart. 5 day, at 12 night.

Month; the Day before or the Day after; namely, within the three Days.

The Councils of Nations at a Stand about some public Affairs, and this attended with the Removes of some

FULL Moon 13 day, at 7 aftern.

great Men, either by Death or Displeasur; and strange Reports of others about Miscarriages in the Public, and the ill Management of Affairs that passed through their Hands and Directions, not long ago.—The Heavens

LAST Quart. 21 day, at 11 night.

smile upon deserving Men; and Honour may be conferred upon them; and yet we are not free from secret Repining, tending to Division.—A warlike Officer gains Promotion, and one of the Long-Robe is crowned with

NEW Moon 28 day, at 6 aftern.

Honour.

Custodi

NOVEMBER XXX Days.

Old Chronus now does with much Craft display,
 At fiery Mars, a treach'rous Quartile Ray :—
 All Men impatient are, and want to see
 What the Event of these sad Times will be ;
 Some great Design in Hand, *England* beware,—
 I fear Comotions and distemper'd Air.

M	W	Fasts and Festivals.	☉	D's Signs	D ^r	D rises and sets	Mutual Asp and Weather.
D	D		m		A		
1	F	All Saints	9	knees	4	7 a 9	☐ ☉ ♃
2	S	Pr. Ed. b.	10	All So.	5	8 16	Frosty and
3	F	24 S. a. T. Prs. So.	11	hams	6	9 34	cold, with
4	M	K. W. m. land. [b.	12	legs	7	10 54	fleet or
5	Tu	Powder Plot	13	ankles	8	morn.	showers.
6	W	Term b. Leonard	14	feet	9	0 12	
7	Th	Day break 5 25	15	toes	10	1 27	
8	F	Prs. Aug. Soph. b.	16	head	11	2 38	Frosty and
9	S	Ld. Mayor's D.	17	and	12	3 49	more fair.
10	F	25 S. aft. Trin.	18	face	13	4 59	
11	M	St. Martin	19	neck	14	6 11	
12	Tu	Cam. T. div. m.	20	throat	F	rises	Δ ♃ ♄
13	W	Britius	21	arms	16	4 a 40	
14	Th	Twi. ends 6 24	22	and	17	5 8	Fine and
15	F	Machutus	23	should.	18	5 46	seasonable
16	S	Day 8 46 long	24	breast	19	6 36	weather.
17	F	26 S. aft. Trin.	25	stom.	20	7 41	
18	M	[Hugh	26	heart	21	8 54	Δ ♃ ♄
19	Tu	Night 15 24 lo.	27	and	22	10 13	
20	W	Eamund	28	back	23	11 36	Cold rough
21	Th	Day decr. 8 4	29	bowels	24	morn.	winds, with
22	F	Cecilia. O. Mar.	♄	belly	25	0 59	snow or
23	S	Clament	1	reins	26	2 23	rain.
24	F	27 S. aft. Trin.	2	loins	27	3 51	
25	M	D. of Glocest. b.	3	Catb.	28	5 21	Stormy wea-
26	Tu		4	memb.	29	6 55	☐ ♃ ♄ ther,
27	W	♃ rises 8 53 a.	5	hips	N	sets	* ♀ ♄ and
28	Th	Mic. Term ends	6	thighs	1	4 a 45	very cold to
29	F	♃ rises 5 16 a.	7	knees	2	5 49	the end.
30	S	St. Andrew	8	hams	3	7 6	

The 15 day, at 11 night, Jupiter
 The 19 day, at 3 morn. Saturn
 The 24 day, at 5 morn. Venus
 The 25 day, at 12 noon. Mars
 The 28 day, at 11 morn. Mercury

} is with
 the Moon.

M	Sun rises	Sun sets	Moon South.
1	7 12	4 48	3 a 50
2	7 14	4 46	4 50
F	7 16	4 44	5 47
4	7 18	4 42	6 40
5	7 19	4 41	7 27
6	7 21	4 39	8 11
7	7 23	4 37	8 52
8	7 24	4 34	9 32
9	7 26	4 34	10 12
F	7 28	4 32	10 52
11	7 30	4 30	11 34
12	7 31	4 29	morn.
13	7 33	4 27	0 18
14	7 34	4 26	1 4
15	7 36	4 24	1 54
16	7 37	4 23	2 46
F	7 39	4 21	3 39
18	7 40	4 20	4 32
19	7 42	4 18	5 23
20	7 43	4 17	6 13
21	7 45	4 15	7 2
22	7 46	4 14	7 50
23	7 47	4 13	8 38
F	7 49	4 11	9 28
25	7 50	4 10	10 21
26	7 51	4 9	11 18
27	7 52	4 8	0 a 20
28	7 54	4 6	1 24
29	7 55	4 5	2 28
30	7 56	4 4	3 29

Monthly Observations.

Rain fallen in November, 1797, at London, was 1,262 Inches.

Rain or Sleet (more or less) on the

FIRST Quart. 4 day, at noon.

1st, 6th, 12th, 17th, 20th, and 25th Days of this Month; the Day before or the Day after; namely, within the three Days.

Keep thy Tongue from Evil: and thy

FULL Moon 12 day, at 2 afternoon.

Lips that they speak no Guile. Psalm xxxiv. 14.

This aphoristical Assertion of the Psalmist, may and doth as well command our Obedience as our Memory; and I would to God it were practised in all the Courts and Dominions in

LAST Quart. 20 day at noon.

Europe.

Among the Configurations of the Planet this Month, that of the Square of Saturn and Mars is the most considerable; which implies the High-

NEW Moon 27 day, at 4 morn.

ways will be infested with Villains and Thieves, whence will proceed Murders and

And now, my Book, since from me thou must go,
 Thy Progress take, and visit those you know
 To be thy Friends; to such thou wilt be kind:
 But let not carping Scoffers know thy Mind,
 Thy Outside may suffice, too good for such
 Who poison all they see, foul all they touch.

M	W	Fasts and Festivals.	♁	D's Signs	D's	D rises and sets	Mutual Asp. and Weather
D	D		♀		A		
1		F Advent Sunday	9	legs	4	8 a 27	Sharp frosts,
2	M	Day break 5 54	10	ankles	5	9 49	Δ ⊙ ♄
3	Tu	Tw. ends 6 5	11	feet	6	11 7	and cloudy
4	W	Day 8 o long	12	and	7	morn.	Δ ♃ ♀
5	Th	Night 16 2 long	13	toes	8	o 22	weather.
6	F	<i>Nicholas</i>	14	head	9	1 32	
7	S	Day decr. 8 38	15	face	10	2 41	
8		F 1st S. in Adv. Con-	16	neck	11	3 49	Sleet or
9	M	[ception	18	and	12	5 o	rain now
10	Tu	♄ rises 7 54 a.	19	throat	13	6 12	about.
11	W	♃ rises 4 20 aft.	20	arms	14	7 23	
12	Th	♂ rises 5 28 m.	21	should.	F	rises	
13	F	<i>Lucy</i>	22	breast	16	4 a 22	Cloudy and
14	S	♀ rises 3 44 m.	23	and	17	5 22	foggy
15		F 2^d S. in Advent	24	stom.	18	6 35	weather.
16	M	<i>C. T. e. O. Sap.</i>	25	heart	19	7 53	
17	Tu	<i>Oxf. Term ends</i>	26	back	20	9 12	♁ ⊙ ♃, □ ♄ ♀
18	W	Ember Week	27	bowels	21	10 33	Frosty, with
19	Th	Day break 6 1	28	belly	22	11 54	* ♀ ♄
20	F	Tw. ends 5 59	29	reins	23	morn.	snow or
21	S	St. Tho. <i>Sbort.</i>	30	loins	24	1 16	sleet.
22		F 3^d S. in Adv. [Day	1	secret	25	2 40	
23	M	Day 7 44 long	2	memb.	26	4 10	Cloudy,
24	Tu	Night 16 16 l.	3	hips	27	5 43	cold, and
25	W	Christmas Day	4	thighs	28	7 11	frosty.
26	Th	St. Stephen	5	knees	N	sets	♁ ⊙ ♄
27	F	St. John	6	hams	1	4 a 26	Seasonable
28	S	Innocents	7	legs	2	5 45	weather to
29		F S. aft. Christmas	8	and	3	7 13	the end,
30	M	Day incr. o 4	9	ankles	4	8 32	
31	Tu	<i>Silvester</i>	10	feet	5	9 49	

MOORE. DECEMBER 1799. 25

The 12 day, at 10 night, Jupiter
 The 16 day, at 7 morn. Saturn
 The 23 day, at 5 morn. Venus
 The 24 day, at 5 morn. Mars
 The 26 day, at 2 aftern. Mercury

} is with the Moon.

M D	Sun rises	Sun sets	Moon South	Monthly Observations.
F	7 57	4 3	4 a 25	Rain fallen in Dec. 1797, at London, was 1,77 Inches.
2	7 58	4 2	5 16	Rain or Snow (more or less) on
3	7 59	4 1	6 1	FIRST Quart. 4 day, at 3 morn.
4	8 0	4 0	6 44	the 6th, 12th, 18th and 26th Days
5	8 1	3 59	7 24	of this Month; the Day before or the
6	8 2	3 58	8 8	Day after; namely, within the three
7	8 2	3 58	8 42	Days.
F	8 3	3 57	9 23	and Bloodshed; and though the World
9	8 4	3 56	10 6	is always full of Fraud and Villainy,
10	8 4	3 56	10 51	FULL Moon, 12 day, at 9 morn.
11	8 5	3 55	11 40	yet at this Time you will see it more
12	8 5	3 55	morn. 32	public and notorious.—This Month
13	8 6	3 54	0 32	gives us but little fresh Intelligence.
14	8 6	3 54	1 25	but what was the Effect of the last
F	8 7	3 53	2 18	Month.
16	8 7	3 53	3 10	LAST Quart. 19 day, at 11 night
17	8 7	3 53	4 0	I shall now conclude by giving a
18	8 8	3 52	4 48	Word of Advice; that is, Let every
19	8 8	3 52	5 34	Man be careful of his own Health,
20	8 8	3 52	6 21	since Health of Body and Tranquil-
21	8 8	3 52	7 8	lity of Mind are the two great Hinges
F	8 8	3 52	7 57	NEW Moon, 26 day, at 3 aftern.
23	8 8	3 52	8 50	whereon all human Content is turn-
24	8 8	3 52	9 47	ed.
25	8 8	3 52	10 49	<i>Vivat Georgius Tertius Rex Magna</i>
26	8 7	3 53	11 53	<i>Britanniae.</i>
27	8 7	3 53	0 a 57	
28	8 7	3 53	1 56	
F	8 6	3 54	2 51	
30	8 6	3 54	3 48	
31	8 5	3 55	4 25	

Common Notes for the Year 1799.

Golden Number - - - -	14	Lent begins - - -	Feb.
Epact - - - - -	23	Easter Day - - -	March 24
Dominical Letter - - - -	F	Rogation Sunday - -	April 28
Cycle of the Sun - - - -	16	Ascension Day - - -	May 2
Sundays after Epiphany - -	1	Whit Sunday - - -	12
Number of Direction - - -	3	Sundays after Trinity - -	27
Septuagesima Sunday -	Jan. 20	Advent Sunday - - -	Dec. 1

A TABLE of Terms and Returns for the Year 1799.

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

Returns, or Effoign Days.	Ex.	Ret.	Ap.	W. D.	
In eight Days of St. Hilary - -	Jan. 20	21	22	23	Wednesd.
In fifteen Days of St. Hilary - -	27	28	29	30	Wednesd.
On the Mor. of the Purif. of the Bl. V. M.	Feb. 3	4	5	6	Wednesd.
In eight Days of the Purif. of the Bl. V. M.	9	10	11	12	Tuesd.

Easter Term begins April 10, ends May 6.

In fifteen Days after Easter - -	April 7	8	9	10	Wednesd.
From Easter Day in three Weeks - -	14	15	16	17	Wednesd.
From Easter Day in one Month - - -	21	22	23	24	Wednesd.
From Easter Day in five Weeks - -	28	29	30	MI	Wednesd.
On the Mor. of the Ascen. of the Lord,	May 3	4	5	6	Monday

Trinity Term begins May 24, ends June 12.

On the Morrow of the Holy Trinity	May 20	21	22	24	Friday
In eight Days of the Holy Trinity -	26	27	28	29	Wednesd.
In fifteen Days of the Holy Trinity	June 2	3	4	5	Wednesd.
From the Day of Holy Trin. in 3 Weeks	9	10	11	12	Wednesd.

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

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

N. B. No Sittings in Westminster Hall on the Second of February, Ascension Day, and Midsummer Day.

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

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

A TABLE of the Equation of Time for regulating Clocks and Watches for 1799. *Note*, fa. Clock too fast, that is, your Clock, to be set right, must be so much faster than the Sun Dial. flo. Clock too slow, that is, your Clock must be so much slower than the Sun Dial.

D.	January	February	March	April	May	June
1	4 fa. 8	14 ^o fa. 2	12 ^o fa. 36 ^o	3 ^o fa. 53 ^o	3 flo. 8 ^o	2 ^o flo. 36 ^o
3	5 4	14 16	12 11	3 17	3 22	2 17
5	5 58	14 26	11 44	2 41	3 34	1 57
7	6 51	14 34	11 15	2 6	3 43	1 35
9	7 41	14 37	10 44	1 32	3 51	1 13
11	8 30	14 38	10 13	0 59	3 55	0 49
13	9 15	14 36	9 40	0 28	3 58	0 25
15	9 59	14 30	9 5	flow.	3 59	fast.
17	10 39	14 21	8 30	0 33	3 57	0 26
19	11 16	14 10	7 54	1 0	3 53	0 51
21	11 50	13 56	7 17	1 27	3 47	1 17
23	12 21	13 39	6 40	1 51	3 39	1 43
25	12 49	13 20	6 3	2 13	3 29	2 8
27	13 14	12 59	5 25	2 34	3 16	2 34
29	13 36		4 48	2 52	3 2	2 58
31	13 54		4 11		2 45	

D.	July	August	Septemb.	October	Novemb.	Decemb.
1	3 ^o fa. 22	5 ^o fa. 55 ^o	0 ^o fl. 15 ^o	10 ^o fl. 24 ^o	16 ^o fl. 14 ^o	10 ^o fl. 34 ^o
3	3 45	5 47	0 53	11 1	16 15	9 46
5	4 7	5 37	1 32	11 37	15 12	8 57
7	4 27	5 24	2 12	12 11	16 6	8 5
9	4 46	5 9	2 52	12 44	15 56	7 12
11	5 2	4 51	3 34	13 15	15 43	6 17
13	5 18	4 31	4 16	13 44	15 27	5 21
15	5 31	4 8	4 58	14 11	15 8	4 23
17	5 42	3 44	5 40	14 36	14 45	3 24
19	5 51	3 17	6 22	14 58	14 19	2 25
21	5 58	2 49	7 4	15 18	13 49	1 25
23	6 2	2 19	7 46	15 35	13 16	0 24
25	6 5	1 47	8 26	15 49	12 40	fast.
27	6 5	1 14	9 7	16 0	12 0	1 36
29	6 3	0 40	9 46	16 8	11 18	2 35
31	5 58	0 4		16 13		3 33

How to set a Clock or Watch by this Table. For example, Jan. the 11, I find, by looking into the Table, that a Clock to be right must be 4 Minutes 8 Seconds faster than a Sun Dial; therefore I set it so much faster accordingly. And so of the rest. Twelve o'Clock is the best Time to set a Clock or Watch by a Dial.

Note, A Sun Dial shews Solar or Apparent Time; but a Clock, &c. should be set to Equal or Mean Time, as the Table directs, to go true.

The Dominion of the Moon in Man's Body,
Passing under the Twelve Zodiacal Constellations.

♈ <i>Aries</i> Head and Face	♎ <i>Libra</i> Reins and Loins
♉ <i>Taurus</i> Neck and Throat	♏ <i>Scorpio</i> Secret Members
♊ <i>Gemini</i> Arms and Shoulders	♐ <i>Sagitary</i> Hips & Thighs
♋ <i>Cancer</i> Breast and Stomach	♑ <i>Capricorn</i> Knees & Hams
♌ <i>Leo</i> Heart and Back	♒ <i>Aquarius</i> Legs & Ancles
♍ <i>Virgo</i> Bowels and Belly	♓ <i>Pisces</i> Feet and Toes.

The Names and Characters of the PLANETS,
With *Dragon's Head and Tail.*

♄ Saturn	} ☉, or the Sun	} ♀ Venus
♃ Jupiter		
♂ Mars		
♁ Dragon's Head.	♏ Dragon's Tail.	♿ Mercury
		♁ the Moon

The Characters of the ASPECTS.

♄ Conjunction	} ♂ Opposition	} △ Trine
* Sextile		
		□ Quartile

Upon the TWELVE SIGNS.

- ♈ The Head and Face the RAM doth always rule:
 ♉ The Neck and Throat are govern'd by the BULL.
 ♊ O'er the Arms and Shoulders still the TWINS preside:
 ♋ Breast, Stomach, Ribs, the crooked CRAB doth guide.
 ♌ The noble LION rules the Back and Heart:
 ♍ The bashful VIRGIN claims the Belly Part.
 ♎ The Reins and Loins the equal BALANCE weigh:
 ♏ The SCORPION o'er the Secret Parts doth Sway.
 ♐ The curious ARCHER doth the Thighs affect:
 ♑ So doth the GOAT our bended Knees protect.
 ♒ The Legs unto AQUARIUS' Lot do fall:
 ♓ The FISH our active Feet their Portion call.

A plain and easy TABLE, shewing the Time of HIGH WATER.

NOTE, That the Moon's Age being taken notice of in the TABLE, you have the Time of HIGH WATER at all the under-named Places.

Queenborough, Portsmouth, Southampton, Kentish Knock, Leith, Beachy, Isle of Wight, Dunkirk, Cantedo, Coast of Flanders, at the Spits and Dover Pier. Gravesend, Downs, Blacknels, Romney, Thanet, Scilly Half-tide, North-Cape before Cocquit, and between Calais and Dover.

London, Tinemouth, Hartlepool, Amsterdum, Whitty, Dort, Catewin, West of Ireland, at Gryuin, at Rotterdam, and in Robin Hood's Bay.

Newcastle, Humber, Falmouth, Severn-mouth, at the Spurn between Scilly and Lizard, Ramsey, Dartmouth, Guernsey, Torbay, St. Maloc's.

Plymouth, Antwerp, Hull, St. David's, Holms of Bristol, Lundy, St. Pauls, Salcom without Ushant, at Waterford, Boston, and at Lynn Half-tide.

Bristol-Key, Weymouth-Key, Aldborough, Foulness, Lime, the Start before St. Nicholas, Sidmouth in the Channel, between Foy and Falmouth.

Yarmouth-Road, Harwich, Calais-Road, Dover, Cowes, Caen, the Frith, South-Foreland, St. Helen's, Coast of Normandy and Picardy.

Hague, Peter-Port, Dublin, between Beachy and the Isle of Wight, Yarmouth, St. Magnus's Sound, Combay, without the Caskets in the Channels.

D's	A	h	m	h	m	h	m	h	m	h	m	h	m	h	m		
1	16	2	48	2	18	3	48	6	3	6	48	7	33	11	18	9	3
2	17	1	36	3	6	4	36	6	51	7	36	8	21	12	6	9	51
3	18	2	24	3	54	5	24	7	39	8	24	9	9	12	54	10	39
4	19	3	12	4	42	6	12	8	27	9	12	9	57	1	42	11	27
5	20	4	0	5	30	7	0	9	15	10	0	10	45	2	30	12	15
6	21	4	48	6	18	7	48	10	3	10	48	11	33	3	18	1	3
7	22	5	36	7	6	8	36	10	51	11	36	12	21	4	6	1	51
8	23	6	24	7	54	9	24	11	39	12	24	1	9	4	54	2	39
9	24	7	12	8	42	10	12	12	27	1	12	1	57	4	42	3	27
10	25	8	0	9	30	11	0	1	15	2	0	2	45	6	30	4	15
11	26	8	48	10	18	11	48	2	3	2	48	3	33	7	18	5	3
12	27	9	36	11	6	12	36	2	51	3	36	4	21	8	6	5	51
13	28	10	24	11	54	1	24	3	39	4	24	5	9	8	54	6	39
14	29	11	12	12	42	2	12	4	27	5	12	5	57	9	42	7	27
15	30	12	0	1	30	3	0	5	15	6	0	6	45	10	30	8	15

The foregoing Table explained.

NOTE, that the Moon's Age being taken Notice of by the Rule in this TABLE, you may obtain the Time of HIGH WATER at all the Places above-mentioned. Observe, When the Moon is one or fifteen Day's old, it is HIGH WATER at London, Tinemouth, Hartlepool, &c. at 3 o'Clock, and 48 Minutes past. Observe the same of the rest, which is plain to the meanest Capacity: The Day of the Moon's Age you have in the sixth Column on every Left Hand Page of the Calendar.

REGAL TABLE.

KINGS and QUEENS from the CONQUEST.

KINGS Names.	Began their Reign.	Reigned Y. M. D.	Since their Reign.	Buried at
W. Conq.	1066 Oct. 14	20 10 26	712 Sept. 9	Caen, Norm.
W. Rufus	1087 Sept. 9	12 10 24	699 Aug. 1	Winchester
Henry I	1100 Aug. 2	35 3 29	664 Dec. 1	Reading
Stephen	1135 Dec. 1	18 10 24	645 Oct. 25	Feverham

The Saxon Line restored.

Henry	2	1154 Oct. 25	34 8 11	610 July 6	Fontevault
Richard	1	1189 July 6	9 9 0	600 Apr. 6	Fontevault
K. John		1199 Apr. 6	17 6 13	583 Oct. 19	Worcester
Henry	3	1216 Oct. 19	56 0 28	527 Nov. 16	Westminster
Edward	1	1272 Nov. 16	34 7 21	492 July 7	Westminster
Edward	2	1307 July 7	19 6 18	474 Jan. 25	Gloucester
Edward	3	1327 Jan. 25	50 4 27	422 June 21	Westminster
Richard	2	1377 June 21	22 3 8	400 Sept. 29	Westminster

The Line of Lancaster.

Henry	4	1399 Sept. 29	13 5 20	386 Mar. 20	Canterbury
Henry	5	1413 Mar. 20	9 5 11	377 Aug. 31	Westminster
Henry	6	1422 Aug. 31	38 6 4	338 Mar. 4	Windfor

The Line of York.

Edward	4	1461 Mar. 4	22 1 5	316 April 9	Windfor
Edward	5	1483 Apr. 9	0 2 13	316 June 22	Unknown
Richard	3	1483 June 22	2 2 0	314 Aug. 22	Leicester

The Families United.

Henry	7	1485 Aug. 22	23 8 0	290 Apr. 22	Westminster
Henry	8	1509 Apr. 22	37 9 6	252 Jan. 28	Windfor
Edward	6	1547 Jan. 28	6 5 8	246 July 6	Westminster
Q. Mary		1553 July 6	5 4 11	241 Nov. 17	Westminster
Q. Elizabeth		1558 Nov. 17	44 4 7	196 Mar. 24	Westminster

The Union of the Two Crowns.

James	1	1603 Mar. 24	22 0 3	174 Mar. 27	Westminster
Charles	1	1625 Mar. 27	23 10 3	150 Jan. 30	Windfor
Charles	2	1649 Jan. 30	36 0 7	114 Feb. 6	Westminster
James	2	1685 Feb. 6	4 0 7	110 Feb. 13	Paris
Will. & Mar.		1689 Feb. 13	13 0 23	97 Mar. 8	Westminster

The Union of the Two Kingdoms.

Q. Anne		1702 Mar. 8	12 4 24	85 Aug. 1	Westminster
George	1	1714 Aug. 1	12 10 10	72 June 11	Hanover
George	2	1727 June 11	33 4 14	39 Oct. 25	Westminster
George	3	1760 Oct. 25	Crowned Sept 22, 1761.		West. Rev.

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CHRONOLOGY

OF MANY REMARKABLE OCCURENCES.

<i>Years of Christ.</i>		<i>Years since.</i>
1066	WILLIAM (the Norman) conquered England	733
1116	First Parliament of Lords and Commons	683
1185	Ireland conquered by the English	614
1299	Windmills invented	500
1302	The Mariner's Compass invented	497
1304	Edward I. reduced Scotland	495
1330	Gunpowder discovered by a Priest	469
1369	Wickliff first began the Reformation	430
1441	Printing invented by a German	358
1483	Martin Luther, the Reformer, born	316
1492	Columbus discovered America	307
1521	Engraving on Wood invented by Albert Durer	278
1535	Cannon first used	264
1584	Virginia discovered by Sir Walter Raleigh	215
1590	Telescopes invented by Jansen, a Dutchman	209
1603	A great Plague in London, died 56,570	196
1605	The Popish Gunpowder Plot, November 5	194
1610	Jupiter's Satellites first discovered	189
1611	New Translation of the Bible	188
1614	The New River brought to London	185
1616	Shakespeare the Poet, died	183
1625	A great Plague in London, died 34,517	174
1632	A great Fire on London Bridge, Feb. 11	167
1634	Old Parr died, aged 152, he lived in Ten Reigns	165
1641	The Earl of Strafford beheaded, May 12	158
1641	The cruel Irish Massacre, began October 23	158
1642	Edgehill and Brentford Fight	157
1642	Sir Isaac Newton born, December 25	157
1649	King Charles I. beheaded, Jan 30	150
1651	The bloody Fight at Worcester	148
1653	Oliver Cromwell made Protector, Dec. 12	146
1655	George Fox, the first of the Quakers	144
1658	Spring Pocket Watches, invented by Dr. Hook	141
1658	Oliver Cromwell died, Sept. 3	141
1660	King Charles II. restored, May 29	139
1661	King Charles II. crowned, April 23, at Westminster	138

1661	A great Storm in London, Feb. 18	—	—	138
1662	The Royal Society instituted	—	—	137
1665	A great Plague in London, whereof died 68,586	—	—	134
1666	The lamentable burning of London, Sept. 2	—	—	133
1667	Peace with Holland, France and Denmark	—	—	132
1667	The Royal Exchange built	—	—	132
1668	Peace proclaimed with Spain, Feb. 12	—	—	131
1669	The Royal Exchange first opened, September 28	—	—	130
1670	The Prince of Orange arrives at Whitehall	—	—	129
1670	Henry Jenkins died, aged 169	—	—	129
1672	War declared against the Dutch	—	—	127
1672	Halfpence and Farthings first coined, Aug. 16	—	—	127
1674	Peace with Holland proclaimed, Feb. 28	—	—	125
1677	Prince of Orange married to the Princess Mary	—	—	122
1678	The Popish Plot discovered	—	—	121
1679	The Habeas-Corpus Act passed	—	—	120
1680	A great Comet appeared in December	—	—	119
1682	Another great Comet appeared	—	—	117
1683	The Penny Post Office established	—	—	116
1684	The great Frost that held 13 Weeks	—	—	115
1685	The Duke of Monmouth beheaded, July 15	—	—	114
1688	The seven Bishops sent to the Tower, June 8	—	—	111
1688	The Pretender said to be born, June 10	—	—	111
1688	Prince of Orange landed at Torbay, Nov. 4	—	—	111
1688	King James II. abdicated, Dec. 12	—	—	111
1689	King William and Queen Mary crowned, April 11	—	—	110
1692	Port Royal swallowed up by an Earthquake	—	—	107
1692	A great Earthquake in England, Sept. 8	—	—	107
1693	Hackney Coaches first licensed	—	—	106
1693	Bank of England established	—	—	106
1694	Lotteries first established	—	—	105
1702	Queen Anne declared War against France	—	—	97
1703	A terrible high Wind, Nov. 26 and 27	—	—	96
1704	Gibraltar taken by Sir George Rooke	—	—	95
1706	The Battle at Ramilies on Whit Sunday	—	—	93
1707	England and Scotland united, May 1	—	—	92
1708	The Pretender attempted to invade Great Britain	—	—	91
1709	The French beat in the Woods of Blanglies	—	—	90
1710	Great Riots and Disturbances in England	—	—	89
1713	Peace with France proclaimed, May 5	—	—	86
1715	A total Eclipse of the Sun, April 22	—	—	84
1715	The Rebellion in Scotland and Lancashire	—	—	84
1716	A great Frost; a Fair on the Thames	—	—	83
1718	The first Appearance of the Northern Lights	—	—	81
1719	A great fiery Meteor, March 19, at 8 at Night	—	—	80
1727	The great Sir Isaac Newton died, March 20	—	—	72

C H R O N O L O G Y. 33

1727	An Earthquake in several Parts of England	—	72
1739	War declared against Spain, Oct. 23	—	60
1739	Forts of Porto Bello destroyed by Admiral Vernon	—	60
1739	A hard Frost for 9 Weeks, began December 24	—	60
1743	The battle of Dettingen, June 16	—	56
1744	Anson completed his Voyage round the World	—	55
1744	War declared against France, March 31	—	55
1745	A Rebellion in Scotland	—	54
1746	The Scotch Rebels defeated at Culloden, April 16	—	53
1748	A general Peace concluded, October 7	—	51
1750	Westminster Bridge finished, cost £. 389,500	—	49
1750	Earthquakes in London, Feb. 8, and March 8	—	49
1752	The Style and Calendar altered, September 2	—	47
1755	Lisbon destroyed by an Earthquake	—	44
1756	War declared against France	—	43
1758	A large Comet appeared, foretold by Dr. Halley	—	41
1760	King George II. died, Oct. 25, K. Geo. III. procl. 26	—	39
1762	A great Snow for 18 Days together, in Feb.	—	37
1763	A general Peace proclaimed, March 22	—	36
1765	Otaheite in the South Seas discovered	—	34
1765	{ Longitude found by Harrison's Time Piece, } { and £. 18,750 given him — — — }	—	34
1765	General Warrants declared illegal	—	34
1766	Gibraltar almost destroyed by a Storm	—	33
1770	Blackfriars Bridge finished, cost £. 152,840	—	29
1772	The Swedes forced to resign their Liberties to the King	—	27
1775	War declared against North America, August 23	—	24
1776	The Americans declare themselves Independent	—	23
1778	The French sign a Treaty with the Americans	—	21
1778	War against France commenced	—	21
1779	War against Spain begun	—	20
1780	War against Holland commenced	—	19
1780	Riots in London, and Gao's burned	—	19
1780	Spanish Fleet defeated at Gibraltar by Adm. Rodney	—	19
1781	Georgium Sidus discovered by Herschel	—	18
1782	French Fleet, under De Grasse, defeated by Rodney	—	17
1783	A general Peace	—	16
1783	Fiery Meteor passed over England, Aug 18	—	16
1787	A Commercial Treaty with France concluded	—	12
1789	A Revolution in France	—	10
1792	Leopold, Emperor of Germany, died	—	7
1792	King of Sweden shot at a Masquerade by Ankerstrom	—	7
1792	France declared a Republic	—	7
1793	King and Queen of France beheaded	—	6
1794	French Fleet defeated in the Channel by Earl Howe	—	5
1797	Spanish Fleet defeated by Earl St. Vincent	—	2
1797	Dutch Fleet defeated by Viscount Duncan	—	2

A TABLE of the Rising, Southing, and Setting of the Pleiades, or Seven Stars, for every 4th Day in the Year, of excellent Use to find the Hour of the Night.

Month & Days	Rise h m	South h m	Sets h m	Month & Days	Rise h m	South h m	Sets h m		
January	1	0 28	8 a 4	5 m 2	July	1	0 m 38	8 m 54	5 a 10
	6	0 a 6	8 22	4 38		6	0 18	8 34	4 50
	11	11 m 44	8 0	4 26		11	11 a 57	8 13	4 29
	16	11 23	7 37	3 55		16	11 37	7 53	4 9
	21	10 52	7 18	3 34		21	11 17	7 33	3 49
26	10 40	6 56	3 12	26	10 57	7 13	3 29		
February	1	10 17	6 33	2 49	August	1	10 33	6 49	3 5
	6	9 56	6 12	2 28		6	10 14	6 30	2 46
	11	9 36	5 52	2 8		11	9 55	6 11	2 27
	16	9 17	5 33	1 49		16	9 36	5 52	2 8
	21	8 58	5 14	1 30		21	9 17	5 33	1 49
26	8 39	4 55	1 11	26	8 59	5 15	1 31		
March	1	8 28	4 44	1 0	September	1	8 37	4 53	1 9
	6	8 10	4 26	0 42		6	8 19	4 35	0 51
	11	7 52	4 8	0 24		11	8 1	4 17	0 33
	16	7 33	3 49	0 5		16	7 43	3 59	0 5
	21	7 15	3 31	11 a 47		21	7 26	3 42	11 m 58
26	6 57	3 13	11 29	26	7 8	3 24	11 40		
April	1	6 35	2 51	11 7	October	1	6 50	3 6	11 22
	6	6 17	2 33	10 49		6	6 32	2 48	11 4
	11	5 58	2 14	10 30		11	6 13	2 29	10 45
	16	5 40	1 56	10 2		16	5 54	2 10	10 26
	21	5 21	1 37	9 53		21	5 36	1 52	10 8
26	5 2	1 18	9 34	26	5 15	1 31	9 47		
May	1	4 43	0 59	9 15	November	1	4 54	1 10	9 26
	6	4 24	0 40	8 56		6	4 34	0 50	9 6
	11	4 5	0 21	8 37		11	4 14	0 30	8 40
	16	3 45	0 1	8 17		16	3 53	0 9	8 25
	21	3 26	11 m 42	7 58		21	3 28	11 a 44	8 0
26	2 56	11 22	7 38	26	3 7	11 23	7 39		
June	1	2 41	10 57	7 13	December	1	2 46	11 2	7 18
	6	2 22	10 37	6 53		6	2 24	10 40	6 56
	11	2 10	10 17	6 33		11	2 2	10 18	6 34
	16	1 43	9 58	6 14		16	1 40	9 56	6 12
	21	1 10	9 35	5 54		21	1 18	9 34	5 50
26	0 59	9 15	5 34	26	0 56	9 12	5 29		

TABLE of some principal fixed Stars, with the Time they Rise, South and Set, either before or after the Seven Stars; as also their Colour, Magnitude, and Meridian Altitude, by which they may be readily discovered.

Co- lour	Alt.	Mag	Names of the Stars.	Rise		South		Sets	
				h	m	h	m	h	m
♂	53	1	Aldebaran, or Bull's Eye	1a	34	0a	48	0b	0
♂	29	1	Left Foot of Orion	4	31	1	31	1	34
♂	36	2	Middle * in Orion's Belt	4	13	1	51	0	35
♂	45	1	Right Shoulder of Orion	3	23	2	8	0	8
♀	21	1	Syrius, the great Dog	6	41	3	1	0	48
♂	43	2	Procyon, the little Dog	5	33	3	53	2a	7
♂	30	1	Heart of Hydra	8	39	5	41	2	44
♂	51	1	Regulus, Lion's Heart	7	26	6	21	5	16
♂	54	1	The Lion's Tail, Denab	8	42	7	54	7	7
♀	28	1	Virgin's Spike.	12	46	9	38	6	36
♂	58	1	Arcturus	10	47	10	30	10	12
♂	12	1	Antares, the Scorp. Heart	17	36	12	39	7	42
♂	46	2	Bright * of the Vulture	17	38	16	3	9b	27
♀	6	1	Fomelhaut	11	14	19	11	10	37
♀	56	2	Head of Andromeda	10	42	10	10	2	56

THE brightest of the seven Stars is of the third magnitude, and hath 61 degrees of meridian altitude, and in colour participates of the Δ and γ .

The fixed Stars all rise, south and set, about four minutes sooner every night than they did the night before; this considered, the exact time of rising, southing, and setting for any intermediate night, not herein noted, may be very easily deduced from these Tables by inspection only.

To know the Time of rising, southing, and setting of any star in this Table, for any day required, it is but considering how many hours and minutes that star rises, souths, or sets, either before or after the seven stars on that day, and you will have your desire; observing that in this Table, a stands for *after*, and b for *before*.

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AN
ACCOUNT of the ECLIPSES
AND OTHER
CELESTIAL APPEARANCES,
In the Year 1799,

*Calculated from New TABLES of the Motions of the
Planets, founded on the latest Observations, accord-
ing to the Newtonian System of Gravitation,*

By HENRY ANDREWS, Astronomer,
At *Rayston*, in the County of *Hertford*. *

ASTRONOMY, for its Excellency, justly challengeth the highest Place of all human Sciences; it lifteth the Heart of Man above the Heavens by invisible Lines and immortal Beams; meeteth with the Reflection of Light incomprehensible, and procureth Delight and Satisfaction unspeakable.

Sacred Urania! with whose Beauty fir'd,
My Soul is ravish'd, and my Brain inspir'd;
O, teach me how thy wond'rous Works to trace,
In ev'ry Part of Universal Space;
Give me the Way of wand'ring Stars to know,
The Height of Heav'n above and Depth of Earth below.

WITHIN the Limits of this Year there will be only two Eclipses of the SUN; and, as they fall about six Months' Distance from each other, we must expect no Eclipses of the MOON; for the following Reason, in the Words of the great KEPLER, *Novilunium duo centralibus propinqua; Ergo, Circumstantia Plenilunium illibatum Eclipsis Lunæ toto Anno nullo*; for which Reason also, such Eclipses of the SUN are seldom visible in these Northern Parts of the Earth, although the Sun were above the Horizon and shone ever so bright; for the Situation of us Europeans upon the Globe, requireth the MOON to have considerable North Latitude, to counterbalance her Parallax occa-

* All such as write to him upon their own Business, especially concerning Points of Curiosity, are desired to pay the Postage of their Letters, if they expect any Answer.

fioned

sioned thereby, in order to bring her between the SUN and us. The first of these Eclipses is on *Sunday* the 5th Day of *May*, at 46 Minutes before our One o'Clock in the Morning; therefore, was the Moon's Latitude ever so favourable, it must in consequence be invisible to us: But in the great South Sea, or Pacific Ocean, it will be a very great Eclipse, not total but annular; for along the Track of Central Appearance, the Spectators will be entertained with a beautiful Ring of Light quite round the Moon's dark Body; and in 8 Degrees of North Latitude, and 177 Degrees 37 Minutes East Longitude from *London*, this beautiful and grand Appearance (though, in some degree, awful to behold) will fall upon them precisely at their 12 o'Clock at Noon. This Eclipse will partially (more or less) be visible at the *Sandwich Islands*, at *Otaheite*, and the rest of the *Society Isles*, at the *Friendly Islands*, the *New Hebrides*, *New Caledonia*, and as far as *New Zealand* in the South Sea. It will also extend itself to the Westward, as far as the extensive Eastern Coast of *New Holland*, and the small Islands thereabout; also to *New Guinea*, the *Ladrone Islands*, and as far North from thence as the Island of *Japan*.

The second of these Eclipses is on *Monday* the 28th Day of *October*, at 36 Minutes past our Five o'Clock in the Evening, invisible to us; at which Time the SUN is vertical in the great South Sea or Pacific Ocean, near to the Western Coast of *Peru* in *South America*, in 5 Degrees 15 Minutes South Latitude, and 82 Degrees 45 Minutes of West Longitude from *London*, where the SUN will be centrally and totally eclipsed at Noon-Day, and that for the Space of two Minutes at least; which will be an awful and terrific Sight to those unacquainted with the Principles of Astronomy. This Eclipse will be visible in a partial Manner (more or less) to the whole Continent of *South America*; it will extend itself to the Island of *Jamaica*, to the Island of *Cuba*, and all the rest of the *West India Islands*; also into *Florida*, *Georgia*, and *Carolina*, on the Continent of *North America*; it will also extend itself to the Westward as far as *Otaheite*, one of the *Society Isles*, and Eastward as far as the *Cape Verd Islands*, on the Coast of *Africa*.

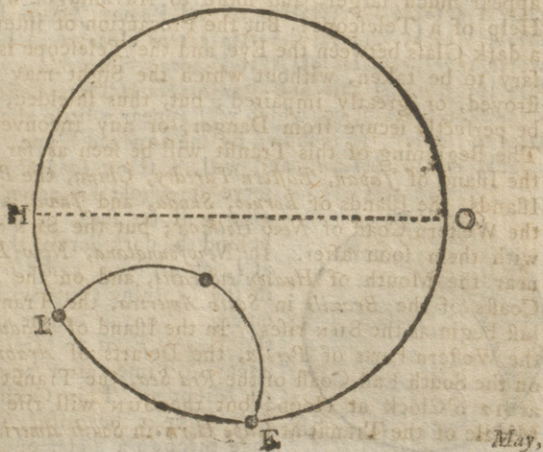
Concerning

Concerning the famous TRANSIT of the PLANET MERCURY over the SUN's Disk, which happens on Tuesday the 7th Day of May, 1799, and visible (if Clouds interpose not) from the Beginning to the End, both to us and all Europe.

THE Transits of the Planets VENUS and MERCURY over the SUN's Disk are curious Appearances in Astronomy, which do not often happen, especially of Venus, not more than once or twice in a Century. The first of this Kind that was ever seen since the Beginning of the World, was a Transit of Venus in the Year 1639, and was predicted by Mr. JEREMIAH HORROX, an Englishman, and observed only by him and his Friend, Mr. CRABTREE, both residing near Liverpool. The Planet MERCURY, entirely divested of its Radiancy, will this Year traverse the SUN's Face for near Seven Hours and a Half, in Form of a round black Spot, and will be seen, if the Sky be clear at the Time, to all Places of the Earth where the SUN is up. MERCURY will be visible to sharp Eyes without a Telescope, only defended by the Interposition of a dark Glass, or a Piece of clear Window Glass smoked over the Flame of a Candle, but will appear much larger, and more to Advantage, with the Help of a Telescope: But the Precaution of interposing a dark Glass between the Eye and the Telescope is necessary to be taken, without which the Sight may be destroyed, or greatly impaired; but, thus shielded, it will be perfectly secure from Danger, or any Inconvenience. The Beginning of this Transit will be seen as far East as the Island of Japan, Eastern Tartary, China, the Philippine Islands, the Islands of Borneo, Sunda, and Java, and also the Western Coast of New Holland; but the SUN will set with them soon after. In Newfoundland, New Britain, near the Mouth of Hudson's Straits, and on the Eastern Coasts of the Brazils in South America, the Transit will just begin as the SUN rises. In the Island of Madagascar, the Western Parts of Persia, the Desarts of Arabia, and on the South East Coast of the Red Sea, the Transit begins at 12 o'Clock at Noon; but the SUN will rise at the Middle of the Transit at Cape Horn in South America. In the

TRANSIT of MERCURY. 39

the Island of *Ceylon* in the *Indian Sea*, and on the *Coromandel* and *Malabar* Coasts, and to the Eastern Parts of *Western Tartary*, the *SUN* will set with them soon after the Middle of the Transit; but at the *Cape of Good Hope*, in *Africa*, the Transit ends as the *SUN* sets. This Transit will be seen, from the Middle to the End, to all *North* and *South America*, and the *West India Islands*; but the whole of this Transit will be visible at the *Azores*, the *Canary*, and *Cape Verd* Islands, and also at the Island of *St. Helena*, as well as with us and all the rest of *Europe*. — *MERCURY* being a fickle Planet, and these Appearances very rare, I would not be too peremptory in my Assertions; but I hope the Appearances in these Kingdoms will not greatly deviate from the following Type and Calculations, made from new and improved Tables. The Declination or Type is adapted to the City of *LONDON*, and shows the Track of *MERCURY* from the Beginning to the End, which will appear, according to my Calculations, to be performed in a Curve Line, Convex towards the Sun's Centre; it also will be sufficient to inform the curious Observer, in what Part of the *SUN*'s Periphery he may expect the Point of Ingress, and will tolerably serve for the whole Kingdom at large.

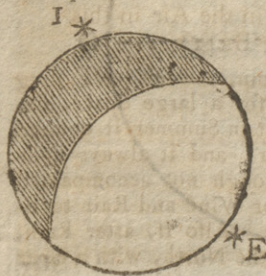


May 7th, 1799.	London.	York.	Edinb.	
App. Time.	h. m. s.	h. m. s.	h. m. s.	
Central Ingres	9 1 31	8 57 4	8 48 42	morn.
Middle of Transf.	0 43 31	0 39 4	0 30 42	afn.
Ecliptic Conj.	0 58 52	0 54 25	0 46 3	
Central Egreis	4 25 31	4 21 4	4 12 42	

Note, H O, an Horizontal Line; I, the Place where *Mercury* will enter the *Sun's* Disk, which will be about 59 Degrees to the left of his lowermost Point; E, the Egreis or Place where *Mercury* goes off the *Sun*, which will be just at his lowermost Point, as the Type before sheweth. Under the Meridian of LONDON, *Mercury* enters the *Sun's* Disk about 9 in the Morning, and goes off again about 25 Minutes after 4 o'Clock in the Afternoon; but accordingly as Places are situated to the East or West of the Meridian of London, just so much later or sooner will the Times of the Transit happen at those Places, which will be as their Difference of Longitudes are in Time. The Time at Cambridge will be much the same as at London.

Some other Celestial Appearances.

ON JANUARY the 16th, in the Morning, there happens a notable Occultation of the Planet *Jupiter* by the *Moon*, which, should the Air prove clear, will be well worth the Attention of Astronomers: The *Moon* will be seen approaching this fine Star for some Time before the Immersion takes place, which will appear a little above the *Moon* to the left, as is shown by the annexed Type, which is adapted to London, and will, without sensible Error,

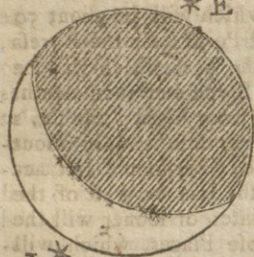


serve the whole Kingdom. *Jupiter* will be seen to immerge behind the dark Part of the *Moon* at I, at 49 Min. past 1 o'Clock in the Morning; and will again emerge from the bright Part of the *Moon* at E, at 40 Min. past 2, apparent Time, after being hid 51 Minutes. This Occultation will make a beautiful Appearance through a Telescope.

Nese

Note, In the Southern Parts of this Kingdom, the *Moon* will set before the Occultation is over; but in the Northern Parts, the End will happen before the *Moon* sets, if my Numbers are right or nearly right.

On *SUNDAY*, the 24th of *November*, in the Morning, soon after the *Moon* rises, she will eclipse the bright and refulgent Planet *Venus*, then our Morning Star; the Ap-



pearance of which will be as in the annexed Type, which represents the light and dark Parts of the *Moon*, both in Quantity and Position, as it is expected to be. — *Venus* will immerge behind the bright Part of the *Moon*, at *I*, at 5 Min. past 4 o'Clock; and *Venus* will again emerge from behind the dark Part of the *Moon* at *E*, at 4 Min. past 5 o'Clock, Solar Time. The *Moon* is ex-

pected to rise at *London* that Morning; at 49 Minutes past 3 o'Clock; and in Latitude 54 Degrees North, at 52 Minutes past 3. This will be an Occultation well worth the Attention of Astronomers, and other curious Persons, and will make a beautiful Appearance through a Telescope, though visible to the naked Eye, as well as that of *Jupiter* before-mentioned. These Calculations are made for the Meridian and Latitude of *London*.

OBSERVATIONS on the WEATHER GLASS,
and the consequent Changes in the Air in this
Country, viz. GREAT BRITAIN.

I IN Winter, Spring, and Autumn, the sudden Falling of the Mercury, and that for a large Space, denotes high Winds and Storms; but in Summer it denotes heavy Showers, and often Thunder: and it always sinks lowest of all for great Winds, though not accompanied with Rain; though it falls more for Wind and Rain together than for either of them alone. Also if, after Rain, the Wind change into any Part of the North, with a clear
and

and dry Sky, and the Mercury rise in the Tube, it is a certain Sign of fair Weather.

II. After very great Storms of Wind, when the Quick-silver has been low, it commonly rises again very fast. In settled, fair, and dry Weather, except the Mercury sink much, expect but little Rain; for its small sinking then is only for a little Wind, or a few Drops of Rain; and the Mercury soon rises again to its former Station. In a wet Season, suppose in *Hay-Time* and *Harvest*, the smallest Sinking of the Quicksilver must be minded; for, when the Constitution of the Air is much inclined to Showers, a little Sinking in the Barometer then denotes more Rain, as it never stands then very high. And if, at such a Season, it rises suddenly very fast, and high, expect not fair Weather more than a Day or two, but rather think the Mercury will fall again very soon, and Rain immediately to follow; the slow gradual rising and keeping on for two or three Days, being most to be depended on for a Week's fair Weather: And the unsettled State of the Quicksilver always denoting uncertain and changeable Weather, especially when the Mercury stands any where about the Word *Changeable* on the Scale. The greatest Heights of the Mercury in this Country arising from Easterly and North-Easterly Winds, it may often rain or snow, the Wind being in those Points, though the Barometer sink little or none, or perhaps may be in a rising State. The Mercury sinks for Wind as well as Rain in all the other Points of the Compass, but rises as the Wind shifts about to the North or East, or between those Points: yet, if the Barometer should sink with the Wind in that Quarter, expect it soon to change from thence; or else, should the Fall of the Mercury be much, a heavy Rain is then likely to ensue, as sometimes happens.— Take Heed of buying WEATHER GLASSES of People who hawk them about the Country, as there is a great Deal of Deception in them.— See Page 41. of my last Year's Almanack.

NOTE, Good Weather Glasses that may be depended upon, Barometers and Thermometers, properly adjusted, may always be had of HENRY ANDREWS, at Royston in Hertfordshire; and sent safe to any Part of the Kingdom. Letters must be Post paid.

Judicium

Judicium Astrologicum pro Anno 1799.

Or, *An Astrological Judgment for the whole Year, from the Influx and Influences of the Planets (as second Causes under God) with respect to the Affairs of the World.*

THE INTRODUCTION.

COURTEOUS READER,

IN several of my former Almanacks, I have taken Notice, that the SPIRIT of GOD is now performing great Wonders in all Nations, in order to bring about some great Work of Reformation amongst Mankind; wherein I have made it appear, by a numerous Train of Deductions, that several Scripture Prophecies are at this Time fulfilling in the World, tending to the Overthrow and Destruction of Popery, Superstition, and arbitrary Power. What a Fund of Reflection upon the Fate of Nations does the Fall of ROME at this Time give Rise to! ROME, which filled the World with her Arms, and had so long enslaved Mankind, is sunk at last into the Arms of a Conqueror; her Papal Power, which could have brought Kings from the furthest Ends of the Earth to kneel before it, which could make a Monarch a solitary Being among his Subjects, and strip him by a few Words of all Happiness and Authority; which could have called Millions of Swords from their Scabbards, to revenge a Look that threatened it with Insult, has been annihilated without a Struggle, and not a Sigh of Regret is breathed by any one at its Fate! May we not, therefore, be justified in considering the present Power of France as the appointed Instrument of Punishment to the corrupt Part of the Christian World, and of Discipline and Trial to those who hold the Faith which was once delivered unto the Saints.

THE

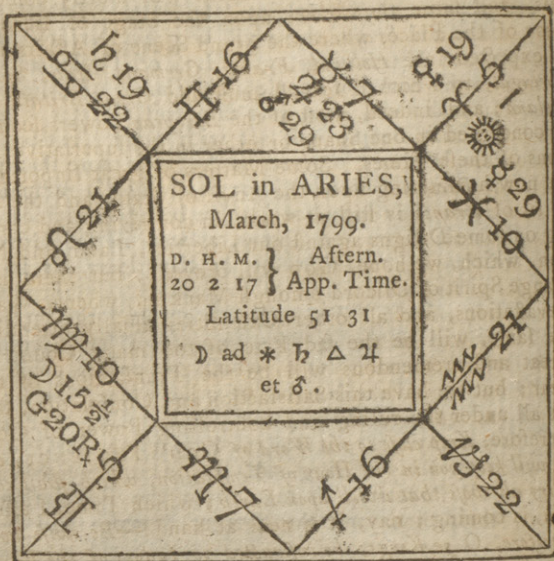
THE HIEROGLYPHIC.

*Of the Brumal Ingress, or Winter Quarter.*

THIS Quarter begins *December 21, 1798*, at 42 Minutes past 12 o'Clock at Noon, when 10 Degrees of φ culminate, and 25 Degrees of φ ascend the Eastern Finitor. *Mars* is in 4 Deg. of φ , the Ascendant of *England*; he has just risen above the *Earth*; γ in 17 Degrees; δ retrograde, located in the Eastern Angle; ϵ in 24 Degrees; ζ retrograde; the η in 10 Degrees Π , the Ascendant of *London*, ab * δ , ad δ of φ . The Planet *Mars* is hastening to a Zodiacal \square Aspect of ϵ , from Cardinal and Tropical Signs; *Mars* in his own Dignities, and *Saturn* in the Dignities of the *Moon*. From a View of the Planetary Configurations at this Ingress, some Positions are for Peace and Concord, while others are for War and Bloodshed; and thus are the Nations of the Earth divided. The Position of the two grand Superiors, *Jupiter* and *Saturn*, will, I doubt, help but little to the Peace and Tranquillity of *IRELAND*, as they are, from particular

particular Circumstances, very weak in the Figure; there seems to be still great Impediments to Peace, and rather fix than remove our Complaints. In *France, Holland, Germany, Italy, and Spain*, there will be great Divisions, Discontents, and Murmurings, great Loss of Trade, and Affliction to the common People; the Flames of which will spread far and wide, even into the United States of *America*; but that People will act with great Caution and Prudence. We now proceed to say, it is more than probable the *French* Nation will not be always so rampant as of late Years they have been, there being auspicious and also disastrous Years and Times, as well in the Government of Empires, Monarchies or Kingdoms, as in the Reigns or Annual Rulings of Princes or Republican Governments, of which *France* has lately had the most remarkable Experience in the Life, Reign, and Death of their late unfortunate KING, whose proper Sins could not or did not exceed the Number of other Mens; but he perished (as we may say) by the peculiar Fate of *France*, God so permitting, as it was the Fate of our unfortunate CHARLES I. King of England. These are general Warnings to all Posterity, to shew what the Revolution of Time, their Sins, and the Sins of Nations will bring about, so ALMIGHTY GOD having decreed it:—ALL THINGS HAVE A TIME TO BE BORN, TO INCREASE, TO DIE, AND TO BE EXTINGUISHED! More than this cannot be said, or may we safely deliver. Several States and Kingdoms in *Europe*, we are sorry to say, are yet lamentably to suffer by Decay of Trade, intestine Divisions, Losses at Sea, Tumults, and the Sword! But yet, let all those People whom it may concern, observe this short astrological and cabalistical Judgment, That if any foreign Power shall attempt an Invasion, or to bring in a foreign Army amongst us, to destroy or bring us into Slavery, we predict they shall assuredly fail in their Purpose, and shall never attain their Designs, but perish in the very Attempt. I now hasten to give you the Scheme of the Sun's Ingress into Aries:

SUN'S INGRESS into ARIES.

*Of the Vernal, or Spring Quarter.*

THE Sun now begins to display his genial Influence on the Earth, and this Quarter commences on the 20th of March, at 17 Minutes past 2 o'Clock in the Afternoon and the Planets are configured and displayed as in the above Scheme. Here is Appearances of Treaties offered, Messengers sent to and fro, great Discourses of Peace, in or near these Times, but I doubt nothing less is thought of but to gain Advantages, or other Purposes. The Position of Mars and Jupiter in the Ascendant of Ireland, on the Cusp of the Medium Cœli, is a sanguine and very malignant Aspect, for it implies great Calamities to Mankind, as Commotions, Wars, Seditions, Subversions of Kingdoms and States, Alteration of Laws, Customs, and Rights, &c. The great Heroes of the Age have now an Oppor-

Opportunity to shew their Valour; many eminent and extraordinary Events and Alterations will shortly come to pass, and show themselves upon the Stage of Europe; some of the Places where the grand Scene of Affairs may be expected, are *Holland, France, Germany, Italy, Spain, Portugal*, to which, I fear, I must add *Great-Britain and Ireland*; and, indeed, most of the *European Powers* seem to be concerned in one Shape or other in the superlative Actions of these Times. Some Matters of great Importance are now hammering upon the Anvil of State, and the evil Spirit of *France* is still at work, in contriving and carrying on some Designs against our Liberties, Land, and Nation, which, we hope, God will prevent; but there is a strange Spirit of Discord amongst Mankind, whence Wars, Devastations, and all other Calamities usually attending the same, will be the sad Fate of too many Countries. Great and tremendous will be the Transactions of this Year; but we have this Satisfaction and Consolation, they are all under the ruling and controlling Power of God; therefore, *Keep close to the Word of GOD'S PATIENCE, and he will keep you in the Hour of Temptation, which shall come to try all those that dwell upon Earth*; which Time, I assure you, is coming; nay, it is near at hand:—*Be wise now, therefore, O ye Kings; be instructed ye Judges of the Earth, &c.* see *Psal. ii. 10, 11, and 12.*

Of the Estival, or Summer Quarter,

WHICH begins on the 21st day of *June*, at 3 Minutes past 12 at Noon, when the first Degree of ϖ will be on the Cusp of the Medium Cœli; and the first Degree of Δ will be on the Ascendant; ♀, Lady thereof, is in 10 Degrees of Ω , on the Cusp of the 11th, afflicted of the Moon in ϖ . At this Ingress, happens a notable ζ of ν and δ , in ϖ : these malevolent Planets are pointed in the 10th, one in his Detriment, and the other in his Fall: they violently afflict each other; there is also a ζ of γ and ξ , in Π , the Ascendant of *London*; they are located in the 9th House of the Figure: Thus stands the Face of the Heavens at this Ingress. The ζ of *Saturn* and *Mars* is a remarkable Configuration, as the meeting of these two malevolent Planets is in *Cancer*, a cardinal and tropical Sign;

Sign; *Saturn* here corrupts the Influence of the *Moon*, who hath her Dignities in that Sign; and *Mars* destroys the Influence of *Jupiter*, who is therein exalted. Cardinal Signs possess the Angles of the Figure, which show the Effects of this Conjunction to be most eminent, and to promote great and notable Actions. This Conjunction principally respects *Europe*, and shows most eminent Actions to be carried on with great Resolution and Celerity. The *French Republic*, and also *Great-Britain*, appear very formidable to some of their Neighbours; and some considerable Changes appear in the Affairs of some of the *German Princes*, &c. The *Russians* exert themselves with great Valour and Prudence. *Holland* and *Prussia* under some Uneasiness and Disorder, as is also the City of *Constantinople*. This Conjunction denotes some raging Distempers, Fevers, unusual Fires, and fiery Appearance in the Air, as also tempestuous Weather, Inundations, Earthquakes, and the like. I hope we may be free!

Of the Autumnal Quarter,

WHICH commences on *Monday*, the 23d Day of *September*, at 49 Minutes past 1 in the Morning, when 29 Degrees of φ will be upon the Mid-Heaven, and 16 Degrees of Ω are ascending. The Planets are thus posited, viz. ζ 7 Degrees of Ω , in the 12th House; ψ in the 11th just entering ω ; δ 27 Degrees of η , on the Cusp of the 3d; γ 1 Deg. of η , located in the 4th; ϵ 13 Degrees of η , in the 2d; the ν in 9 Degrees of ω , ab δ ψ et Δ γ , ad * δ et ζ : Thus will stand the Face of the Heavens at this Ingress, and from which I infer, that notwithstanding some Overtures have been made for Peace, yet, I doubt, the Felicity of *all Europe*, particularly *Great Britain* and *Ireland*, is not yet so near at Hand; the Sufferings of this Nation, I fear, are not yet quite over, for our Enemies are many. Some great Things will shortly be brought before a great and august Assembly; I wish they may tend to the Peace and Welfare of Mankind; and I pray to God to protect our most gracious King and Sovereign, and the whole Nation at large.

Merlinus Liberatus.

BEING AN

ALMANACK

For the Year of our Redemption,

1799,

Being the Third after *Biffextile*, or *Leap-Year* ;
And from the Creation of the World, according
to the best History, 5746,

And the 110th of our Deliverance by *K. William*

From Popery and Arbitrary Government ;

But the 104th from the

Horrid, Popish, Jacobite Plot:

Wherein are contained all Things fitting and useful for such a Work; as
an Ephemeris of the daily Motions of the Planets, with their various
Configurations, Aspects, Conjunctions, Lunations, Eclipses, Astrono-
mical, Astrological, Meteorological Observations, the Rising and Setting
of the Sun, Moon, Planets, and fixed Stars, illustrated with Tables of
the Tides, Terms, and daily Equation of Clocks, Length and Break,
Increase and Decrease of Days, Semidiurnal and Seminocturnal Arches
for several Latitudes, a Chronology, Remarks on the Divisions of the
Heavens, with Judgments of the Eclipses and Seasons, handled ac-
cording to the Rules of the Ptolomean Astrology, with many other
Things relating to the Truth of Astrology. And will equally serve
also for either *Parker's* or *Saunders's* Almanack, as it contains most
of the useful Parts of those other two Works, and *White's* Ephem-
eris contains the rest.

Calculated for the Meridian of

By **JOHN PARKER**

— *Etiam Mortuus loquitur.*

L O N D O N.

Printed for the **Company of STATIONERS** ;

And Sold by **GEORGE GREENHILL**, at their Hall,
in *Ludgate Street*.

[Price stitched Sixteen Pence.]

A Table of the Common Notes, and Moveable Feasts, for the Year of our Lord 1799.

Golden Number - - - 14	Easter Sunday - March 24
Epact - - - - - 23	Rogation Sunday April 28
Dominical Letter - - F	Ascension Day - May 2
Cycle of the Sun - - 16	Whit Sunday - May 12
Roman Indiction - - 2	Trinity Sunday - May 19
Number of Direction - 3	Sundays after Trinity - 27
Sundays after Epiphany 1	Advent Sunday - Dec. 1
Septuagesima Sund. Jan. 20	Year of the Julian Per. 6512
Ash Wednesday, Feb. - 6	Year of the Dionysian - 122

A Table of the 12 Signs, 7 Planets, and Aspects.

♈ Aries, <i>Head and Face.</i>	☉ Sol, or the Sun.
♉ Taurus, <i>Neck and Throat.</i>	☿ Mercury.
♊ Gemini, <i>Arms and Shoulders.</i>	♀ Venus.
♋ Cancer, <i>Breast and Stomach.</i>	♁ Tellus, or Earth.
♌ Leo, <i>Heart and Back.</i>	☾ Luna, the Moon.
♍ Virgo, <i>Bowels and Belly.</i>	♂ Mars.
♎ Libra, <i>Reins and Loins.</i>	♃ Jupiter.
♏ Scorpio, <i>Secret Members.</i>	♄ Saturn.
♐ Sagittarius, <i>Hips and Thighs.</i>	♃ Georgium Sidus
♑ Capricorn, <i>Knees and Hams.</i>	♁ Dragon's Head.
♒ Aquarius, <i>Legs and Ancles.</i>	♁ Dragon's Tail.
♓ Pisces, <i>Feet and Toes.</i>	☽ Part of Fortune.

♄ ♀ Conjunction, *In one Sign and Degree.*

♄ ♀ Sextile, *is 2 Signs, or 60 Degrees.*

♄ ♀ Square or Quartile, *is 3 Signs, or 90 Degrees.*

♄ ♀ Trine, *is 4 Signs, or 120 Degrees.*

♄ ♀ Opposition, *is 6 Signs, or 180 Degrees.*

♈ ♀ Hot and dry, Fiery	♁ ♀ Cold & dry, Earthy
♊ ♀ Hot and moist, Airy	♁ ♀ Cold & moist, Watery
♈ ♀ ♀ Diur. Mascul.	♁ ♀ ♀ Noct. Femin.
♈ ♀ ♀ Cardinal & Movea.	♁ ♀ ♀ Fixed Signs
♈ ♀ ♀ Common Signs	♁ ♀ ♀ Fruitful Signs
♈ ♀ ♀ are Barren	♁ ♀ ♀ Bicornoreal

<i>Kings Names.</i>	<i>Reigns began.</i>	<i>The direct Lineal Descent of His Majesty K. George III.</i>
William Conq	Oct. 14, 1066	
William Rufus	Sept. 9, 1087	Henry II. K. of England had
Henry 1. -	Aug. 2, 1100	Maud mar. Hen. the Lion, D.
Stephen - -	Dec. 1, 1135	of Bavaria and Saxony, had
Henry 2. Rosam.	Oct. 25, 1154	Wil. of Lun. mar. Helena, D.
Richard 1. -	July 6, 1189	of Worldemer, K. of Den. had
John - - -	April 6, 1199	Otho D. of Brunf. and Lunen.
Henry 3. -	Oct. 19, 1216	_____ had _____
Edward 1. -	Nov. 16, 1272	Albert the Great D. of Brunf.
Edward 2. -	July 7, 1307	_____ had _____
Edward 3. -	Jan. 25, 1327	Albert the Fat D. of Brunf.
Ric. 2. W. Tyler	June 21, 1377	_____ had _____
Henry 4. - -	Sept. 29, 1399	Magnus D. of Brunswick
Henry 5. -	Mar. 20, 1413	_____ had _____
Henry 6. - -	Aug. 31, 1422	Mag. Torquat. D. of Bru. & Lun.
Ed. 4. J. Shore	Mar. 4, 1461	_____ had _____
Edward 5. -	April 9, 1483	Bernard D. of Brun. & Lun.
Richard 3. -	June 22, 1483	_____ had _____
Henry 7. - -	Aug. 22, 1485	Frederick Duke of Lunenb.
Henry 8. -	Apr. 22, 1509	_____ had _____
Edward 6. -	Jan. 28, 1547	Otho the Great D. of Lunenb.
Mary 1. - -	July 6, 1553	_____ had _____
Elizabeth -	Nov. 17, 1558	Henry Duke of Lunen. had
James 1. - -	Mar. 24, 1603	Ernest Duke of Lunenb. had
Charles 1. -	Mar. 27, 1625	Wil. D. of Lunen. Zel. had
Charles 2. -	Jan. 30, 1649	Elizabeth, mar. Fred. K. of
James 2. - -	Feb. 6, 1685	Bohemia, had Geo. P. of Cal-
Will. 3. & M. 2.	Feb. 13, 1689	lenbar and D. of Harover,
Anne - - -	Mar. 8, 1702	had Sophia, mar. Ernest Au-
George 1. -	Aug. 1, 1714	gustus Bishop of Osnaburgh,
George 2. -	June 11, 1727	and Eleclor of Brunswick
George 3. -	Oct. 25, 1760	Lunenburgh, had George, by
		the Grace of God, King of
		Great-Britain, &c. who had
		George II. who had Fred. Pr.
		of Wales, who had George III.
		his present Majesty, whom
		God preserve.

PARTRIDGE. 1799.

A Table of the Moon's Age for every Day throughout the Year 1799. whereby, with the Help of the next General Tide Table, the Times of High Water at all the Places mentioned above it are shewn by Inspection.

Month	Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	
January.		25	26	27	28	N	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		
February.		26	27	28	N	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25			
March.		25	26	27	28	29	N	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
April.		26	27	28	29	N	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		
May.		28	29	N	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
June.		28	29	N	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
July.		29	30	N	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	
August.		N	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
September.		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
October.		2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
November.		4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30					
December.		4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31				

An Explanation of this and the following Table: First find the Month on the Head of the Table, and the Day in the first Column on the left Hand, and in the Angle of meeting you have the Day of the Moon's Age, with which enter the following Table, and find your said Number in the left Hand Column, and over against it in the other Column is the Time of High Water at all the Places above mentioned, by Inspection. — Example, Jan. 25 I find the Moon to be 19 Days old, and over against 19 in the 1st Column I find 6 h. 12 m. in the 2d Column, 4 h. 42 m. in the 3d; which are the Times of High Water at all those Places mentioned above in the 2d and 3d Columns on that Day. Et sic de ceteris.

TIDE - TABLE.

A general Tide-Table, shewing the Time of High Water at all the Places herein mentioned, viz.

D's	h	m	h	m	h	m	h	m	h	m	h	m
1	16	4	3	2	6	6	7	7	18	12	9	3
2	17	4	3	3	5	8	8	9	12	1	1	3
3	18	5	24	3	5	9	9	12	5	2	2	3
4	19	6	12	4	4	10	10	12	1	3	3	3
5	20	7	0	5	3	11	11	13	2	4	4	3
6	21	7	48	6	1	12	12	14	3	5	5	3
7	22	8	36	7	0	13	13	15	4	6	6	3
8	23	9	24	8	54	14	14	16	5	7	7	3
9	24	10	12	9	42	15	15	17	6	8	8	3
10	25	11	0	10	30	16	16	18	7	9	9	3
11	26	11	48	11	18	17	17	19	8	10	10	3
12	27	12	36	12	6	18	18	20	9	11	11	3
13	28	1	24	13	54	19	19	21	10	12	12	3
14	29	2	12	14	42	20	20	22	11	13	13	3
15	30	3	0	15	30	21	21	23	12	14	14	3

Enter this Col. with the Moon's Age, and over against it you have the Time of High Water at the Places following.

London, Tinmouth, Hartl. Amster. Dort, Whitby, Galacia, Gasce, West of Irel. Britain at Grain, Roterd. and Robin H. Bay.

Downs, Graves, Ramk. Guerns. Rumr. Thanet, Scilly half Tide, Senny H. Zenn at Blacken N. Cape, bet. Cal. and Dow.

Plym. Rams. Sev. Humb. Foy, Torb. Newc. Falm. Dartm. Lizard, St. Maloes, at the Spurn, betw. Scilly and the Liz.

Hull, Lynn, Weym Fosd. Antw. St. Dav. Holmes of Bristol, Lund. St. Paul's Salcom, without Ushant, Waterf. half Tide

Boston, Bristol, Fouln Startp. Lanion. Albor. Weym. Key, Lime, before St. Nicholas, Sidmouth in the Channel, Foy.

Dover, Harw. Bologne, Yarm Road, Calais Road, St. John de Luca, S. Forel, St. Helens, Coast of Norm. and Picardy

Portf. Quimb. Southa. Leitb. Isle of Wight, Dunk. Kentish Knock, Beacky, Canado, C. of Fland. Spiers, Dover Pier.

Portl. Peter-port, Hague, Dubl. Harf. Lambay, Magnus, Sound, Comb without the Casquets, Macnefs, Milford, Texel

ROYAL FAMILY, &c.

BIRTH-DAYS of the ROYAL FAMILY.

KING GEORGE III. June 4, 1738	Prince Aug. Fred. Jan. 27, 1773
Prince of Wales, Aug. 12, 1762	Prince Adolph. Fred. Feb. 24, 1774
Duke of York, Aug. 16, 1763	Princess Mary, April 25, - 1776
Duke of Clarence, Aug. 21, 1765	Princess Sophia, Nov. 3, - 1777
Prs. of Wirtemberg Sept. 29, 1766	Princess Amelia, Aug. 7, - 1783
Prince Edward, Nov. 2, - 1767	Queen Charlotte, May 19, 1744
Prs. Augusta Sophia, Nov. 8, 1768	Ducs. of Brunswick, Aug. 11, 1737
Prs. Elizabeth, May 22, - 1770	Duke of Gloucester, Nov. 25, 1743
Prince Ernest Augustus, June 5, 1771	

SOVEREIGNS of EUROPE, their Accession, &c.

Kingdoms, &c.	To whom subject.	When born.	Began to reign.
England, &c.	George III.	June 4, 1738	Oct. 25, 1760
Russia	Paul	Oct. 1, 1754	Nov. 17, 1796
Spain	Charles IV.	Nov. 11, 1748	Dec. 1788
Portugal	Mary	Dec. 7, 1734	Feb. 24, 1777
Prussia	Fred.-Wm. III.	Aug. 6, 1770	Nov. 16, 1797
Denmark & Norway	Christian VII.	Jan. 29, 1749	Jan. 14, 1766
Sweden	Gustavus IV.	Nov. 1, 1778	Mar. 29, 1792
Germany	Francis II.	Feb. 12, 1767	Mar. 1, 1792
Poland	Stanislaus III.	Jan. 17, 1732	Nov. 25, 1764
Holland	William V.	March 8, 1748	Oct. 11, 1751
Papedom	Pius VI.	Dec. 27, 1717	Feb. 18, 1775
Sardinia	Victor	June 26, 1726	Mar. 20, 1773
Ottoman Empire	Selim III.	July 17, 1761	April 7, 1789
Two Sicilies,	Ferdinand IV.	Jan. 12, 1751	Oct. 6, 1759

The FULL WEIGHT of the COINS, with the LEAST WEIGHT allowed to pass of the Gold Coin.

Wt. allowed.		Full Wt.	SILVER.	
GOLD.	dwt. gr.	dwt. gr.	dwt.	gr.
Guinea	- 5 8	5 9 $\frac{30}{80}$	A Crown,	- - - 19 8 $\frac{16}{31}$
Half Guinea,	2 16	2 16 $\frac{63}{80}$	Half Crown,	- - - 9 16 $\frac{31}{31}$
Quarter Guin.	1 8	1 8 $\frac{32}{80}$	Shilling,	- - - 3 20 $\frac{28}{31}$
			Six Pence,	- - - 1 22 $\frac{14}{31}$

According to the above proportions it appears, that the value of a *lb.* of silver is 62s. or 31. 2s. and of a *lb.* of gold is 44 $\frac{1}{2}$ guineas, or 461. 14s. 6d. Also that the *oz.* of silver is 5s. 2d. and the *oz.* of gold 31. 17s. 10 $\frac{1}{2}$ d. So that the value of the standard gold is 15 times that of the silver, and 1-14th more.

A TABLE of TERMS and RETURNS for 1799.

Hilary Term begins *January 23*, ends *February 12*.

Returns or Effoign Days.

	Exc.	Ret.	App.	W. D.
In eight Days of St. Hilary, - - <i>January 20</i>	21	22	23	<i>Wednes.</i>
In fifteen Days of St. Hilary, - - - <i>27</i>	28	29	30	<i>Wednes.</i>
On the Morrow of the Purif. of bl. V. M. <i>Feb. 3</i>	4	5	6	<i>Wednes.</i>
In eight Days of the Purif. of bl. V. Mary, <i>9</i>	10	11	12	<i>Tuesd.</i>

Easter Term begins *April 10*, ends *May 6*.

In 15 Days of Easter, - - - - <i>April 7</i>	8	9	10	<i>Wednes.</i>
From the Day of Easter in 3 Weeks, - - <i>14</i>	15	16	17	<i>Wednes.</i>
From the Day of Easter in 1 Month, - - <i>21</i>	22	23	24	<i>Wednes.</i>
From the Day of Easter in 5 Weeks, - - <i>28</i>	29	30	<i>MI</i>	<i>Wednes.</i>
On the Morrow of the Ascension, - - <i>May 3</i>	4	5	6	<i>Monday</i>

Trinity Term begins *May 24*, ends *June 12*.

On the Morrow of the holy Trinity, <i>May 20</i>	21	22	24	<i>Friday.</i>
In eight Days of the holy Trinity, - - <i>26</i>	27	28	29	<i>Wednes.</i>
In fifteen Days of the holy Trinity, - - <i>June 2</i>	3	4	5	<i>Wednes.</i>
From the holy Trinity in 3 Weeks, - - <i>9</i>	10	11	12	<i>Wednes.</i>

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

On the Morrow of All Souls, - - - <i>Nov. 3</i>	4	5	6	<i>Wednes.</i>
On the Morrow of St. Martin, - - - <i>12</i>	13	14	15	<i>Friday.</i>
In eight Days of St. Martin, - - - <i>18</i>	19	20	21	<i>Tburisd.</i>
In fifteen Days of St. Martin, - - - <i>25</i>	26	27	28	<i>Tburisd.</i>

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

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.

OXFORD and CAMBRIDGE TERMS.

OXFORD TERMS.

Lent Term - - begins <i>January 14</i> , - - ends <i>March 16</i> .
Easter Term - - begins <i>April 3</i> , - - ends <i>May 9</i> .
Trinity Term - - begins <i>May 22</i> , - - ends <i>July 13</i> .
Michaelmas Term begins <i>October 10</i> , - - ends <i>Dec. 17</i> .

The Act is *July 8*.

CAMBRIDGE TERMS.

Lent Term - - begins <i>January 13</i> , - - ends <i>March 15</i> .
Easter Term - - begins <i>April 3</i> , - - ends <i>July 5</i> .
Michaelmas Term begins <i>October 10</i> , - - ends <i>Dec. 16</i> .

The Commencement will be *July 2*.

The Maleficks with bright Sol do roughly jar,
 Filling the World with a domestic War;
 In various Mischiefs they their Rays dispense,
 And shew Mankind their rugged Influence;
 Something they mean, you'll soon see their Intent,
 The Strength of Fate is from these Causes sent.

M	h	u	D
D	26	8	8
	1	24	17
	6	23	16
	11	23	16
	16	22	D
	21	22	17
	26	22	17

M	W	Sundays and	☉ long	☽ long	♂	♀	♃	Aspects and			
D	D	Remark. Days.	°	°	°	°	°	Weather.			
1	T	Circumcision	11	11	12	11	12	R	Favourable		
2	W		12	12	26	12	11	13	28	weather for	
3	T	Sun rises 8. 3.	13	13	9	15	12	14	28	the season.	
4	F		14	15	23	34	13	15	28	△ 4 ♀	
5	S	O. Christ. Day	15	16	6	59	13	17	27		
6	F	Epiph. 12th D	16	17	20	12	14	18	27	△ ○ 4	
7	M	Plough Monday	17	18	3	10	14	19	26	Sleet or	
8	T	Lucian	18	19	15	52	15	20	25	showers.	
9	W		19	21	28	18	16	22	24	8 h ♀, 6 ♀ ♀	
10	T	Sun sets 4. 3.	20	22	10	31	16	23	22	6 ○ ♀, 8 h ♀	
11	F		21	23	22	31	17	24	21	Cold winds,	
12	S	O. N. Yrs. Day.	22	24	4	24	17	25	20	8 ○ h	
13	F	S. a. Ep. Hil. C. T.	b. 16	13	18	27	18			○ δ ♀	
14	M	Oxf. T. beg.	24	26	28	4	19	28	17	△ 4 ♀	
15	T	Sun rises 7. 52	25	27	10	8	3	19	29	16	with frost
16	W		26	29	22	13	20	15		and snow.	
17	T	Old Twelfth D.	27	30	4	42	20	2	14		
18	F	Q. Ch. b. d. k.	28	31	17	31	21	3	14	Cloudy dull	
19	S	[Prisca	29	32	0	45	22	4	13	□ h ♂	
20	F	Septuages. Sun.	Fabian	14	24	22	6	13		weather.	
21	M	Agnes	1	34	28	26	23	7	12		
22	T	Vincent	2	35	12	46	24	8	D	Rugged wea-	
23	W	Term begins.	3	36	27	19	24	9	12	ther, but	
24	T		4	37	11	57	25	11	12	open for the	
25	F	Conv. St. Paul.	5	38	26	32	25	12	13	most part.	
26	S	Sun sets 4. 23.	6	39	11	0	26	13	13		
27	T	Sexages. S. Pr.	7	40	25	16	27	14	14		
28	M	[Aug. Fr. h.	8	40	9	18	27	16	14	□ 4 ♀	
29	T	Sun rises 7. 32.	9	41	23	7	28	17	15		
30	W	K. Cha. I. mart.	10	42	6	42	29	18	16	Sleet or	
31	T	Sun sets 4. 32.	11	43	20	5	29	19	16	showers.	

Partridge: January, 1799. 9

M	Jupiter	Venus		
D	South	South		
1	8 a 8	o a 2		New Moon 6th Day, at 4 Morning.
6	7 44	o 7		First Quarter 14th Day, at 4 Morning.
11	7 24	o 12		Full Moon 21st Day, at 6 Afternoon.
16	7 2	o 17		Last Quarter 28th Day, at 11 Morning
21	6 45	o 22	1st Day	h So. om 56, d 5 a 50, g 1 a 13.
26	6 22	o 28	16th D.	11 a 40, 5 18, 11 m 11.

M	Lunar Aspects.						Clock	Moon	Drises	Observations.
D	☉	☽	♃	♄	♅	♆	b. ☉	South	& sets	
1		Δ	8				4' 8"	7 m 44	2 m 40	We have now arrived to the year 1799; a year of wonderful transactions; a year where in great events will take place—for the affairs of some kingdoms are highly carried on. Great debates and disputes break out in a great assembly.
2					*		4 36	8 35	4 3	
3				Δ			5 4	9 30	5 28	
4							5 31	10 26	6 48	
5	♄		Δ	□	♄		5 58	11 23	7 5	
F 16	8				♄		6 25	o a 20	o a 20	
7				*			6 51	1 14	5 a 8	
8			□				7 16	2 4	6 20	
9					*		7 41	2 50	7 35	
10	*				*		8 6	3 33	8 46	
11		Δ			*		8 30	4 14	9 56	
12				♄			8 53	4 53	11 5	
F	□	□				□	9 15	5 32	morn	
14						□	9 37	6 13	o 12	
15			♄			Δ	9 59	6 55	1 23	
16	Δ	*				Δ	10 19	7 41	2 35	
17							10 39	8 30	3 50	
18				*			10 58	9 24	5 3	
19							11 16	10 21	6 16	
F	♄	*	□			8	11 34	11 21	7 17	
21	8				8		11 50	morn	Drises	
22	6		□	Δ			12 6	o 20	5 a 5	
23							12 21	1 17	6 32	
24		*	Δ			Δ	12 36	2 12	8 3	
25	Δ						12 49	3 3	9 28	
26						Δ	13 2	3 53	10 53	
F	□			8		□	13 14	4 42	morn	
28		Δ	8			□	13 25	5 32	o 19	
29				*			13 36	6 23	1 43	
30	*			*			13 46	7 16	3 8	
1			Δ				13 54	8 11	4 26	

10 February hath XXVIII Days.

M h 2 D
D 28 8 8

Farther to know what 'tis makes Mortals jar,
Observe the Nature of the tempting Star;
To nimble witty Stibbon turn your Eye,
He shews a subtle, sly, intriguing Spy;
Who, whilst in Place, employs it for the Cause,
He's High-Church, Papist, Nothing, if you please.

1 21 17 8
6 21 18 21
11 20 18 20
16 20 19 20
21 20 19 20
26 20 20 20

MW	Sundays and	☉ long	☽ long	♂ ♀ ☿	Aspects and
D D	Remark. Days.				Weather.
1 F	Sun rises 7. 27.	12 ³³ 44	3 ¹⁵ 18	30 21 17	Δ 2 ♀
2 S	Purif. or Candl.	13 45	16 19	8 22 18	Frothy now
3 F	Shrove S. Blase	14 46	29 10	1 23 19	about.
4 M		15 47	11 ³³ 50	2 24 20	8 h ♀
5 T	Shrove Tuesday	Agatha	24 18	2 26 21	Cold winds.
6 W	Ash Wednesday	17 48	6 ³ 35	3 27 22	□ ○ 2
7 T		18 49	18 41	4 28 23	
8 F	Sun sets 4. 46.	19 50	0 ³ 38	4 29 25	Frothy, fair,
9 S		20 50	12 29	5 30 26	and
10 F	1st Sund. in Lent	21 51	24 16	5 2 27	pleasant.
11 M		22 52	6 8 5	6 3 28	
12 T	Term e. Ca. T. d. m.	18 0	7 4	7 4	
13 W	Ember Week.	O. Cand.	0 II 8	7 6 1	Temperate
14 T	Valentine.	26 54	12 33	8 7 2	and more
15 F		27 55	25 20	9 8 4	* ♂ ♀
16 S	Sun rises 7. 0.	28 55	8 ²⁸ 35	9 9 5	open
17 F	2nd Sund. in Lent	29 56	22 18	10 11 6	weather.
18 M		0 ³ 56	6 ² 29	10 12 8	
19 T	Sun sets 5. 6.	1 56	21 5	11 13 9	
20 W		2 56	5 ¹² 58	12 14 11	Cold winds.
21 T		3 57	21 0	12 16 12	□ ♂ ♀
22 F	Sun rises 6. 48.	4 57	6 ² 1	13 17 14	
23 S		5 57	20 52	14 18 15	
24 F	3rd Sund. in Lent. St. Matthe		5 ¹¹ 26	14 19 17	} * h 2 Δ h ♀ * 2 ♀
25 M	[Pr. Ad. Fr. b.]	6 57	19 40	15 21 18	
26 T		7 58	3 ¹ 33	15 22 20	□ 2 ♀
27 W		8 58	17 6	16 23 21	Sleet or snow.
28 T	Sun sets 5. 24.	9	0 ¹ 20	17 24 23	

JUPITER is an Evening Star till May 30; then a Morning Star till Dec. 17; after that an Evening Star to the End.

Partridge, February, 1799. II

M	Jupiter	Venus
D	South.	South.
1	5 a 59	o a 33
6	5 40	o 38
11	5 23	o 42
16	5 4	o 46
21	4 47	o 50
26	4 32	o 54

New Moon 4th Day, at 8 Night.
 First Quarter 13th Day, at 1 Morning.
 Full Moon 20th Day, at 5 Morning.
 Last Quarter 26th Day, at 8 Night.

1st Day h So. 10 a 29, d 4 a 49, z 10 m 14
 16th D. 9 25, 4 26, 10 30.

M	Lunar Aspects.						Clock	Moon	D rise	Observations.
D	☉	☽	♃	♄	♀	♁	b. ☉	South	& sets	
1							14' 8"	9m 7	5m 37	
2							14 10	10 3	6 36	God direct the
F 3		8	Δ			♄	14 16	10 58	7 26	general Affairs of
4	♄					□	14 22	11 49	D sets	England.—Some
5	♄	8				* ♄	14 26	0a 37	5a 12	new Commotion just
6							14 30	1 22	6 24	now breaking out,
7		Δ	*			*	14 34	2 4	7 36	and several offend-
8							14 36	2 44	8 46	ers accused and
9	*	□					14 37	3 23	9 53	brought to punish-
F 10						♄ * □	14 38	4 31	11 3	ment. — But take
11						♄	14 38	4 44	morn	heed and beware,
12	□	*					14 37	5 28	0 13	O, fond man! em-
13						□ Δ	14 36	6 15	1 26	ploy thy wits bet-
14							14 33	7 6	2 40	ter.
15	Δ						14 30	8 1	3 51	
16		♄	*	*	Δ		14 26	8 59	4 58	
							14 21	9 59	5 53	4 Martinico sur. 1762
18							14 16	10 59	6 36	6 Cha. II. died 1685
19	8					8	14 10	11 56	7 6	11 London Bridge
20	17	*	Δ	Δ	8		14 3	morn.	D rises	burnt 1632
21							13 56	0 50	7a 1	12 Lady Jane Grey
22		□				Δ	13 48	1 43	8 31	beheaded 1554
23							13 39	2 34	9 59	16 Sir J. Oldcastle
F 24	Δ					8	13 30	3 25	11 29	burnt 1418
25		Δ	8		Δ		13 20	4 18	morn.	18 Q. Mary behe. 1587
26	□						13 10	5 12	0 56	22 Quaker's affir-
27						□ *	12 59	6 7	2 19	mation accep. 1702
28	*						12 48	7 4	3 34	24 Earl Derwent-
										water behead. 1716
										25 Sir Chr. Wren
										died - 1723

VENUS is an Evening Star till Oct. 16; then a Morning Star for the rest of the Year.

And thus it goes, stagg'ring from Hand to Hand,
Till Crouds of Causes meet, and make a Stand;
Matter in shatter'd Shapes, but artful made,
Marches in Order to the grand Parade.
Push'd into Action, though unseene, 'tis plain,
The little Cloud leads on the Hurricane.

1 20 20 8
6 19 21 19
11 19 22 19
16 19 23 19
21 D 24 18
26 19 25 18

M	W	Sundays and	☉ long	☽ long	♂ ♀ ☿	Aspects and	
1	D	Remark. Days.	°	'	8 8 ☿	Weather.	
	F	David.	10	58	13 17	17 26 25	
2	S	Chad.	11	58	26 2	18 27 26	Rather tem-
3	F	Midleat Sund.	12	58	8 34	19 28 28	perate
4	M		13	58	20 57	19 29 28	* h ♂
5	T	Sun rises 6. 27	14	58	3 10	20 29 1	now about.
6	W		15	58	15 15	21 2 3	
7	T	Perpetua.	16	58	27 13	21 3 5	♂ 2 ♂
8	F		17	58	9 5	22 4 6	Briske winds,
9	S	Sun sets 5. 41.	18	58	20 53	22 6 8	Δ O h
10	F	5 Sund. in Lent	19	58	2 8 40	23 7 10	perhaps some
11	M		20	58	14 29	24 8 12	showers.
12	T	Gregory.	21	58	26 25	24 9 14	* O 2
13	W	Sun rises 6. 11.	22	57	8 31	25 10 15	
14	T		23	57	20 53	20 12 17	
15	F	Camb. T. ends	24	57	3 35	26 13 19	Δ h ♂
16	S	Oxf. T. ends	25	56	16 44	27 14 21	Some cold
17	F	Palm S. Patrick	26	56	0 21	28 15 23	* 2 ♂
18	M	Edw. K. W. S.	27	55	14 28	28 17 25	storms
19	T		28	55	29 2	29 18 27	* O ♂
20	W	Sun sets 6. 3.	29	54	13 59	29 19 29	□ h ♀ * ♂ ♀
21	T	Maunday Th.	Bened.	29	11 11	20 29	♂ O ♀
22	F	Good Friday	1 53	14 26	1 22 3	now about.	
23	S		2 53	29 35	1 23 5		
24	F	Easter-Day	3 52	14 28	2 24 7		
25	M	Easter-Mond. Lady-D.	28	59	3 25	9	Pleasant days,
26	T	Master-Tuesday	5	51	13 4	6 3 27 11	but frosty
27	W		6	50	26 47	4 28 13	nights.
28	T	Sun rises 5. 41.	7	49	10 10	3 5 29 15	
29	F		8	48	22 59	5 8 17	
30	S	Sun sets 6. 23.	9	47	5 36	6 1 19	□ h ♀
31	F	Low Sunday	10	46	17 59	6 3 21	Cold winds.

Partridge. March, 1799. 13

M	Jupiter	Venus		
D	South	South		
1	4 a 22	o a 56	New Moon 6th Day, at 2 Afternoon.	
6	4 7	1 1	First Quarter 14th Day, at 6 Aftern.	
11	3 52	1 5	Full Moon 21st Day, at 3 Afternoon.	
16	3 37	1 10	Last Quarter 28th Day, at 8 Morning.	
21	3 22	1 14	1st Day h So. 8 a 34, δ 4 a 8, ♄ 11 m o	
26	3 8	1 18	16th D. 7 37, 3 52, 11 45.	

M	Lunar Aspects.						Clock	Moons	Rise	Observations.
D	☉	♃	♄	♀	♁	b	South	& sets		
1		8	Δ	Δ			12'36"	8m 1	4m 30	Very material are the configurations of this month, as well as of the last month; they shew or portend very notable things all over Europe. God give peace and unity at home, and keep us from all domestic jars. Amen. 4 Hen. VI. depos. 1461 6 First appear. of the Nor. lights 1716 8 K. W. III. died 1702 9 Rizzio murd. 1566 10 Act for build. 50 new churches 1710 14 Adm. Byng shot 1757 18 Amer. Stamp-Act repealed 1766 24 Q. Eliz. died 1603 27 James I. died 1625 28 Tobac. brought to England 1585 30 Fred. Pr. of W. died 1751
2				*			12 23	8 56	5 24	
F				□			12 11	9 48	5 56	
4			□		♁		11 57	10 36	6 21	
5							11 44	11 22	6 40	
6	♁	Δ	*	*			11 29	0a 4	6 40	
7	2				♁		11 15	0 45	6a 36	
8		□					11 0	1 25	7 46	
9							10 44	2 4	8 54	
F					*		10 29	2 45	10 5	
11	*	*	♁	♁			10 13	3 28	11 18	
12							9 56	4 13	morn	
13				*	□		9 40	5 2	0 30	
14	□						9 23	5 55	1 42	
15					□		9 5	6 50	2 51	
16	Δ	♁	*	*	Δ		8 48	7 48	3 48	
F							8 30	8 47	4 34	
18			□	□	Δ		8 12	9 44	5 10	
19							7 54	10 39	5 35	
20	*	Δ					7 36	11 33	5 56	
21	8			Δ		8	7 17	morn	6 rises	
22	3	□			8		6 59	0 26	7a 33	
23							6 40	1 19	9 6	
F		Δ	8				6 22	2 13	10 39	
25	Δ			8	Δ		6 3	3 8	morn	
26							5 44	4 5	0 8	
27	□				Δ		5 25	5 4	1 30	
28	8				□		5 7	6 2	2 38	
29		Δ					4 48	6 59	3 31	
30	*		Δ				4 30	7 53	4 9	
F		□		*			4 11	8 42	4 35	

Saturn's malignant Rays corrupt the Sun,
 And shew how human Wickedness begun.
 Learn to hate Vice, then Virtue will adorn;
 The Devil's Trade's undone if you reform.
 Poor Sinners sculk, though most expert they be,
 But Knaves of Quality are bold and free.

M	h	u	d
D	26	8	8
	1	19	26
	6	19	27
	11	20	28
	16	20	29
	21	20	30
	26	20	1

M	W	Sundays and	long	long	♂	♀	☿	Aspects and
D	D	Remark. Days.	°	'	II	♂	♀	Weather.
1	M	Sun rises 5. 33.	11	46	0	10	7	4 23
2	T		12	45	12	12	8	5 25
3	W	Oxf. & C. T. b.	Richar	24	8	8	6	27
4	T	Ambrose	14	43	5	59	9	8 29
5	F	Old Lady Day	15	42	17	48	10	9 8
6	S		16	41	29	36	10	10 2
7	F	1st S. aft. Easter	17	40	11	25	11	11 4
8	M	Sun sets 6. 41.	18	38	23	19	11	12 6
9	F		19	37	5	19	12	14 7
10	W	Term begins	20	36	17	30	13	15 9
11	T		21	35	29	54	13	16 10
12	F	Sun rises 5. 12.	22	34	12	37	14	17 12
13	S		23	32	25	41	15	19 13
14	F	2^d S. aft. Easter	24	31	9	11	15	20 14
15	M		25	30	23	6	16	21 15
16	T	Sun sets 6. 56.	26	28	7	29	17	22 16
17	W		27	27	22	14	17	23 17
18	T		28	25	7	17	18	25 18
19	F	Alphege	29	24	22	29	18	26 19
20	S		0	8	22	7	17	40 19
21	F	3^d S. aft. Easter	1	20	22	41	20	28 20
22	M		2	19	7	24	20	30 20
23	T	St. George	3	17	21	43	21	1 21
24	W		4	16	5	35	22	2 21
25	T	St. Mark. Prs. Mary b.	6	12	2	33	22	3 21
26	F		6	12	2	33	22	3 21
27	S	Sun rises 4. 44.	7	10	14	41	23	6 21
28	F	Regation Sund.	8	9	27	2	24	7 21
29	M		9	7	9	25	8	21
30	T	Sun sets 7. 22.	10	5	21	6	25	9 20

April begins
with
fruitful
showers.

Some cold

☐ ☉ h

winds

now

about.

* h ♀

Fine weather

for the

season.

Rather windy

* h ♀

♂ u ♀

with showers.

Fine, but

frosty nights.

* h ♀

Showers.

Partridge: April, 1799. 15

M	Jupiter	Venus
D	South	South
1	2 a 51	1 a 24
6	2 37	1 29
11	2 24	1 35
16	2 9	1 41
21	1 55	1 47
26	1 41	1 53

New Moon 5th Day, at 7 Morning.
 First Quarter 13th Day, at 8 Morning.
 Full Moon 19th Day, at 12 Night.
 Last Quarter 26th Day at 9 Night.
 1st Day ♄ So. 6 a 40, ♃ 3 a 37, ♁ o a 40.
 16th D. 5 47. 3 22. 1 13.

M	Lunar Aspects.						Clock	Moon	D rise	Observations.
D	☉	☽	♃	♄	♀	♁	b. ☉	South	& sets.	
1				☐	*		3'53"	9m29	4m56	If, in the course of the last year, we have seen nations contending, and have read of the devastations of war, we foretold a busy year, and a busy year we have found it. We yet foresee much controversy and strife, and are in expectation of better news than we are I doubt like to hear of. 8 Edw. IV. died 1483 8 Pr. of Wales m. 1795 11 W. & M. cro. 1689 14 Handel died 1759 16 Batt. of Cullo. 1746 22 Hen. VII. died 1509 Total Eclipse of the Sun - 1715 23 Shakesp. died 1616 27 Dunkirk dem. 1714 30 Bat. Fontenoy 1745
2		Δ					3 35	10 11	5 11	
3			*				3 17	10 52	5 23	
4	♄			*			2 59	11 32	5 35	
5	19	☐					2 41	0a12	☽ sets	
6						♄	2 24	0 52	8a 0	
F	*				♄		2 6	1 34	9 12	
8			♄				1 49	2 19	10 28	
9				♄			1 32	3 6	11 42	
10	*						1 16	3 57	morn	
11					*		0 59	4 51	0 50	
12	☐	♄		*			0 43	5 46	1 51	
13			*				0 28	6 43	2 40	
F			*	☐	☐		0 12	7 38	3 18	
15	Δ		☐				0a 3	8 33	3 44	
16	*			☐	Δ		0 18	9 26	4 7	
17			Δ		Δ		0 33	10 18	4 26	
18		☐		Δ			0 47	11 10	4 41	
19	8						1 0	morn	☽ rises	
20	12	Δ				8	1 14	0 3	8a10	
F			8		8		1 27	0 59	9 46	
22				8			1 39	1 57	11 14	
23	Δ						1 51	2 57	morn	
24							2 2	3 57	0 32	
25		8	Δ		Δ		2 13	4 57	1 34	
26	☐				Δ		2 24	5 53	2 17	
27				Δ	☐		2 34	6 45	2 47	
F				☐	☐		2 43	7 32	3 9	
29	*	Δ		*			2 52	8 17	3 25	
30		*	☐				3 1	8 58	3 39	

M	h	24	D
D	25	II	3
	121	2	8
	621	3	16
	1122	5	16
	1622	6	15
	2122	7	15
	2623	8	15

The two Superiors, when in hostile Square,
 On Earth send Discord, Thunder in the Air;
 In various Mischiefs they their Rays dispense,
 And shew Mankind their rugged Influence;
 They mould Religion too, as Nature craves;
 Of all Knaves I most hate religious Knaves.

M	W	Sundays and	☉ long	☽ long.	♂	♀	♁	Aspects and
D	D	Remark. Days.	°	°	II	II	8	Weather.
1	W	St. Phil. & Jam.	11 8	3 2	♄	♃	26 10 20	
2	T	Afc. Holy Th.	12	14	44	27	12 20	Some cold
3	F	Inv. of the Crofs	12	59	26	32	27 13 19	winds
4	S		13	58	8 8	23	28 14 19	begin to
5	F	Sund. aft. Afc.	14	56	20	19	29 15 18	blow.
6	M	Term e. John	15	54	2 II	21	29 16 17	
7	T	[Ev. A.P.L.	16	52	14	33	25 18 17	♁ ☉ ♁
8	W	Sun rises 4. 25.	17	50	26	55	0 19 16	
9	T	Oxford T. ends	18	48	9 25	31	1 20 16	Fine
10	F		19	45	22	22	2 21 15	for the
11	S	Sun sets 7. 40.	20	43	5 ♀	30	2 22 15	season.
12	F	Whit. S. Old May Day	18	58	3	24	14	* ☉ ♁
13	M	Whit Monday	22	39	2 ♄	46	4 25 13	
14	T	Whit Tuesday	23	37	16	54	4 26 13	Good spring
15	W	Lumber Week	24	35	1 ♁	22	5 27 13	weather.
16	T		25	32	16	5	5 28 12	
17	F	Frs. of Wales b.	26	30	0 ♄	59	6 25 12	More cool,
18	S	Sun rises 4. 9.	27	28	15	56	7 1 12	with
19	F	Trin. S. Q. Charl. b.			0 ♄	49	7 2 12	frequent
20	M	[Dunstan	29	23	15	29	8 3 D	showers.
21	T	Sun sets 7. 55	0 II	21	29	51	9 4 12	
22	W	Frs. Eliz. b.	1	18	13 ♄	49	9 6 12	Oxf. Term b.
23	T	Corpus Christi	2	16	27	21	10 7 12	
24	F	Term begins	3	13	10 ♄	28	11 3 12	Wind and
25	S	Sun rises 4. 0.	4	11	23	11	11 9 13	rain
26	F	S. aft. Trin.	August.		5 ♄	34	12 10 13	near the end,
27	M	Venerable Bede	6 II	6	17	42	12 11 14	and perhaps
28	T		7	4	29	38	13 13 14	♁ ♂ ♁
29	W	K. Char. II. r.	8	1	11 ♄	28	14 14 15	thunder.
30	T		8	59	23	15	14 15 16	♁ ☉ ♁
31	F	Sun sets 8. 6.	9	56	5 8	5	15 16 16	* ♁ ♁

Partridge, May 1799.

M	Jupiter	Venus		
D	South	South		
1	1 a 27	2 a 0	New Moon 4th Day, at 12 Night.	
6	1 12	2 6	First Quarter 12th Day, at 5 Afternoon	
11	0 58	2 12	Full Moon 19th Day, at 8 Morning.	
16	0 43	2 18	Last Quarter 26th Day, at 11 Morning.	
21	0 28	2 25	1st Day ♄ S. 4 a 55, ♃ 3 a 8, ♀ 0 a 34.	
26	0 13	2 32	16th D. 4 1, 2 52, 11111.	

M	Lunar Aspects.						Clock flow	Moon South	rises & sets	Observations.
	☉	♃	♄	♅	♆	♁				
1					*		3 8	9m38	3m51	
2		□					3 16	10 17	4 1	I wish all be well
3				*			3 22	10 57	4 13	in Ireland; it looks
4	♄					♄	3 28	11 38	sets	as if some more mis-
F 12	*						3 34	0a22	8a23	chief were contriv-
6			♄				3 39	1 8	9 35	ing in that already
7					♄		3 43	1 58	10 46	afflicted country.—
8					♄		3 47	2 51	11 50	The affairs of Eu-
9	*	♄			*		3 51	3 46	morn.	France, and also
10			*				3 53	4 41	0 43	some other places
11					□		3 55	5 36	1 23	apprehend danger,
F	□			*			3 57	6 29	1 53	Italy and Spain are
13				*	△		3 58	7 20	2 16	threatened with in-
14	△	*			□		3 59	8 10	2 34	roads, broils and
15			△	□			3 59	9 0	2 49	contentions.
16		□			△		3 58	9 51	3 4	
17					△	♄	3 57	10 44	3 19	
18	♄	△					3 55	11 40	3 36	1. Dryden died 1700
F 20		♄					3 53	morn.	rises	4. Hen. VI. mur. 1471
20							3 51	0 40	10a 9	14. Ann. Bulleyne be-
21				♄	♄	△	3 47	1 41	11 20	headed - 1504
22		♄					3 43	2 42	morn.	17. D. of Marlborough
23	△		△				3 39	3 41	0 12	died - 1722
24					□		3 34	4 37	0 49	— Prs. of Wales born
25							3 29	5 27	1 14	1768
F	□		□	△	△	*	3 23	6 13	1 32	19. Battle of La Hogue
27		△					3 16	6 56	1 46	1692
28	*		*				3 9	7 37	1 59	27. J. Calvin died 1554
29				□	□		3 2	8 16	2 10	
30		□					2 54	8 55	2 20	
31			*				2 45	9 37	2 33	

Partridge, June 1799.

M	Jupiter	Venus	
D	South	South	
1	11m 54	2 a 39	New Moon 3d Day, at 3 Afternoon.
6	11 38	2 44	First Quarter 10th Day, at 11 Night.
11	11 22	2 48	Full Moon 17th Day, at 4 Afternoon.
16	11 6	2 52	Last Quarter 25th Day, at 3 Morning.
21	10 50	2 55	1st Day $\frac{1}{2}$ S. 3 a 4, δ 2 a 31, ♀ 10m 25.
26	10 35	2 57	16th D. 2 9, 2 10, 10 39.

M	Lunar Aspects.						Clock	Moon	(rises	Observations.
D	☉	♃	♄	♅	♆	♁	South	& sets		
1		*		*	♁		2 36	10m 17	2m 45	The 4th day of this month, 1738, was born, his present Majesty, King GEO. III. to whom God give grace, wisdom, and understanding; and grant that he may long preside over these realms; —to which let all true Protestants say, Amen. Vivant Rex et Regina.
F			♁				2 27	11 3	3 3	
3	♁						2 17	11 52	sets	
4	♁	3					2 3	0a 45	9a 42	
5				♁			1 57	1 39	10 39	
6		♁		♁	*		1 46	2 35	11 22	
7		*					1 35	3 30	11 56	
8	*				□		1 24	4 23	morn.	
F			□				1 13	5 14	0 19	
10	□	*		*			1 8	6 3	0 38	
11				*	△		0 49	6 51	0 53	
12	△	□	△	□			0 37	7 40	1 7	
13					□		0 25	8 30	1 21	
14							0 12	9 23	1 37	
15		△		△	♁		0fa	10 19	1 56	
F		8					0 13	11 18	2 20	
17	8						0 26	morn.	rises	
18	4						0 39	0 20	9a 55	
19		8		8			0 51	1 20	10 40	
20			△		8	△	1 4	2 19	11 10	
21	△						1 17	3 12	11 31	
22							1 30	4 1	11 48	
F			□		□		1 43	4 46	morn.	
24	□	△		△			1 56	5 27	0 0	
25		*		△			2 8	6 7	0 12	
26		□			*		2 21	6 47	0 23	
27	*			□			2 34	7 27	0 34	
28					□		2 46	8 8	0 47	
29	*		*				2 58	8 53	1 3	
F		♁					3 10	9 40	1 23	

- 1. Lord Howe beat the French Fleet 1794
- 7. Belleisle taken 1761
- 8. Seven bishops sent to the Tower 1688
- 10. Geor. I. died 1727
- 16. Bat. of Dettingen 1743
- 17. Addison died 1719
- 18. Mahomet died 631

The air's o'ercharged with matter of its own :
 With angry rays the Heavens seem to frown ;
 The nitrous part, by heat advancing higher,
 Breaks forth at last with ratlings, smoke, and fire,
 Hot heads, as well as air, of sulphur smell,
 Fire and brimstone in their natures dwell.

1	27	16	8
6	28	17	13
11	28	19	12
16	29	20	12
21	30	21	12
26	∞	22	12

M	W	Sundays and	☉ lon	☽ long	♂	♀	♃	Mutual Aspects	
D	D	Remark. Days.	o	'	o	'	∞	and Weather.	
1	M	Sun rises 3 45	9 ^{ss}	32	20	11	1	4 22 5	Good hay wea- ther.
2	Tu	Vifita. Cam. Co.	10	29	2 ^{ss}	45	5	23 8	
3	W	Dog days begin	11	27	15	46	6	24 10	♁ ☉ ♃ Some showers about this time.
4	Th	Tran. St. Mart.	12	24	29	4	6	25 12	
5	F	Ca. Te. e. Old	13	21	12	∞	36	7 26 14	♁ ☉ ♃ Some showers about this time.
6	S	[Midsum.	14	18	26	20	8	27 16	
7	M	7 S. a. Tr Tho.	15	15	10 ^π	13	8	28 18	♁ ☉ ♃ Some showers about this time.
8	M	Ox. Act [a Bec.	16	13	24	12	9	29 21	
9	Tu		17	10	8 [∞]	17	9	∞ 23	♁ ☉ ♃ Cooling winds, but not bad wea- ther.
10	W	Sun sets 8 9	18	7	22	24	10	2 24	
11	Th		19	4	6 ^π	34	11	3 27	♁ ☉ ♃ Cooling winds, but not bad wea- ther.
12	F		20	2	20	45	11	4 29	
13	S	Oxford Terme.	20	59	4 [∞]	54	12	5 ∞	♁ ☉ ♃ Cooling winds, but not bad wea- ther.
14	M	9 S. aft. Trin.	21	56	19	1	13	6 3	
15	M	Swithin	22	53	3 [∞]	∞	13	7 5	♁ ☉ ♃ Cooling winds, but not bad wea- ther.
16	Tu		23	50	16	49	14	8 7	
17	W	Sun rises 3 59	24	48	∞ [∞]	24	14	9 9	Wind and rain, if not thunder
18	Th	Sun sets 8 0	25	45	13	42	15	10 10	
19	F		26	42	26	41	16	11 12	Wind and rain, if not thunder
20	S	Margaret	27	39	3 [∞]	20	16	12 14	
21	M	9 S. aft. Trin.	28	37	21	43	17	14 16	♁ ☉ ♃, [♁ ♂ ♃ * ♃ ♃ also, near this time.
22	M	Magdalen	29	34	3 [∞]	50	18	15 17	
23	Tu		∞	∞	31	15	46	18 16 19	♁ ☉ ♃, [♁ ♂ ♃ * ♃ ♃ also, near this time.
24	W	Sun rises 4 7	1	29	27	36	19	17 21	
25	Th	St. James	2	26	9	8	24	19 18 23	♁ ☉ ♃, [♁ ♂ ♃ * ♃ ♃ also, near this time.
26	F	St. Anne	3	23	21	18	20	19 24	
27	S		4	21	3	∞	21	21 20 26	Fine weather.
28	M	10 S. aft. Trin.	5	18	15	39	21	21 27	
29	M		6	16	28	15	22	22 29	* ♃ ♂, [♁ ♃ ♃
30	Tu		7	13	11 ^{ss}	13	23	23 ∞	
31	W	Sun sets 7 42	8	10	24	31	23	24 2	

Partridge, July 1799.

D	Jupiter South	Venus South	
1	10m 19	2 a 57	New Moon 3d Day, at 3 Morning.
6	10 3	2 58	First Quarter 10th Day, at 4 Morning.
11	9 47	2 58	Full Moon 17th Day, at 1 Morning.
16	9 32	2 58	Last Quarter 24th Day, at 9 Night.
21	9 16	2 57	1st Day $\frac{1}{2}$ S. 1 a 15, δ 1 a 46, γ 11 m 42
26	9 1	2 56	16th D. 0 22, 1 23, 0 a 55

M	Lunar Aspects.						Clock fast	Moon South	Rises & sets	Observations.
D	☉	♃	♄	♅	♆	♇				
1					*		3 22	10m 31	1m 50	The affairs of Germany are not quite settled, the people in general are full of fears and complaints, and well they may, for the world is in a strange bustle—Spain will soon have her glory buried in oblivion; her troubles increase, and her relief but weak and faint. The rebel. beg. 1745 6. Hen. II. died 1189 Edw. VI. died 1553 Sir T. Moore be. 1535 7. Edw. I. died 1307 9. Czar Peter mur. 1762 13. Pea. of Utrecht 1713 17. Cape Breton 1745 24. Gibraltar tak. 1704 29. Sp. Armada de. 1588
2	♄					♄	3 34	11 26	2 29	
3	17	♄					3 45	0 a 22	sets	
4						♄	3 56	1 18	9 a 52	
5			*				4 7	2 13	10 17	
6						♄	4 17	3 5	10 38	
F	*		□		*		4 27	3 55	10 54	
8		*					4 36	4 44	11 9	
9	□		△	*			4 46	5 31	11 22	
10		□			*	□	4 54	6 20	11 37	
11						□	5 2	7 11	11 55	
12	△	△				△	5 10	8 4	morn.	
13						□	5 18	9 1	0 15	
F			8				5 24	10 1	0 45	
15						△	5 31	11 1	1 28	
16	8	8					5 36	morn.	2 25	
17	13					8	5 42	0 0	rises	
18			△	8			5 47	0 56	9 a 37	
19							5 51	1 47	9 47	
20			□			8	5 54	2 34	10 2	
F	△	△					5 58	3 18	10 14	
22							6 0	3 59	10 25	
23			*	△		△	6 2	4 39	10 37	
24	□	□					6 4	5 19	10 48	
25				□	△		6 5	5 59	11 2	
26		*				□	6 5	6 42	11 20	
27	*						6 5	7 28	11 45	
F		♄	*	□			6 4	8 18	morn.	
29					*		6 3	9 11	0 20	
30					*		6 1	10 8	1 7	
31							5 58	11 5	2 10	

Witches they say, can turn into a hare,
Or on a witch ride through the fleeting air;
'Tis all a trick, pray take it not amifs,
The Devil's in't if you believe all this.
Ill tongues and witchcraft, if these tales be true,
Nations may be bewitch'd as well as you.

1	1	23	8
6	2	24	11
11	2	25	11
16	3	26	11
21	4	26	10
26	4	27	10

M	W	Sundays and	☉ lon	☽ long	♂	♀	♃	Mutual Aspects			
D	D	Remark. Days.	o	' o	Ω	♃	♃	And Weather.			
1	Th	Lammas Day	9	8	8	Ω	11	24	25	3	<i>Fine weather to begin the harvest.</i>
2	F		10	5	22	8	25	26	5		
3	S	Sun rises 4 22	11	3	6	♃	17	25	27	6	
4	F	11 S. aft. Trin.	12	0	20	34	26	28	7		
5	M		12	58	4	♂	54	26	29	9	
6	Tu	Transfiguration	13	55	19	12	27	♂	10		
7	W	Prs. Am. b. Na.	14	53	3	♃	25	28	1	11	<i>Some gentle showers.</i>
8	Th	[of Jesus	15	51	17	32	28	2	12		
9	F	Sun sets 7 28	16	48	1	♂	32	29	3	14	
10	S	St. Lawrence	17	46	15	24	♃	4	15		
11	F	12 S. a. T. B. D. A.	D. d e	29	8	0	5	16			<i>Rather windy now about.</i>
12	M	Pr. Wales b Old	19	41	12	♂	44	1	17		
13	Tu	[Lammas	20	39	26	8	2	6	18		
14	W		21	36	9	♂	21	2	7	19	
15	Th	Assumption	22	34	22	19	3	8	20		<i>Fine harvest weather.</i>
16	F	D. of York bo.	23	32	5	♂	3	3	9	21	
17	S	Sun rises 4 46	24	29	17	32	4	10	22		
18	F	13 S. aft. Trin.	25	27	29	47	5	11	22		* ☉ ♃
19	M		26	25	11	♃	50	5	12	23	
20	Tu	Sun sets 7 8	27	23	23	43	6	13	24		<i>Thunder showers near this time.</i>
21	W	D. of Clar. born	28	20	5	8	31	7	13	24	
22	Th		29	18	17	19	7	14	25		
23	F	Sun rises 4 57	0	♃	16	29	12	8	15	25	
24	S	St. Bartholomew	1	14	11	11	14	9	16	26	
25	F	14 S. aft. Trin.	2	12	23	33	9	17	26		
26	M		3	10	6	♂	12	10	17	26	<i>More cool and cloudy at the end.</i>
27	Tu		4	8	19	14	10	18	18		
28	W	Augustine of H.	5	6	2	Ω	42	11	19	26	
29	Th	Beh. J. Bapt.	6	4	16	35	12	20	26		
30	F		7	2	0	♃	51	12	21	26	
31	S	Sun sets 6 48	8	0	15	23	13	21	26		

Partridge, August 1799, 23

M	Jupiter South	Venus South	
1	8m 43	2 a 54	New Moon 1st Day, at 2 Afternoon.
6	8 27	2 52	First Quarter 8th Day, at 9 Morning.
11	8 11	2 50	Full Moon 15th Day, at Noon.
16	7 56	2 47	Last Quarter 23d Day, at 2 Afternoon.
21	7 41	2 43	New Moon 30th Day, at 11 Night.
26	7 26	2 39	1st Day $\frac{1}{2}$ S. 11 m 31, δ 1 a 0, δ 1 a 35.

M	Lunar Aspects.						Clock	Moon	Rises	Observations.
D	\odot	$\frac{1}{2}$	\sphericalangle	δ	\square	δ	fast	South	& sets	
1	δ						5 55	0a 3	sets	Rome papal, prepare thyself to receive showers of judgments, for thou hast often deluged the earth with blood.—Some neat project is now much talked of, but I expect it will not come to much.—The French nation is full of troubles and tumults.
2	2		*	δ			5 52	0 56	8a39	
3						δ	5 47	1 49	8 59	
F		*	\square			δ	5 42	2 39	9 14	
5	*						5 37	3 28	9 29	
6		\square	Δ	*			5 31	4 17	9 43	
7	\square					*	5 24	5 7	9 59	
8						\square	5 16	5 59	10 19	
9		Δ				*	5 9	6 55	10 46	
10	Δ		8			\square	5 0	7 53	11 23	
F						Δ	4 51	8 53	morn.	
12						Δ	4 41	9 52	0 15	
13		8				Δ	4 31	10 48	1 20	
14							4 20	11 41	2 36	
15	8		Δ	8			4 8	morn.	rises	
16	0						3 56	0 30	8a10	
17			\square			8	3 44	1 15	8 22	
F		Δ					3 31	1 57	8 34	
19						8	3 17	2 37	8 46	
20	Δ	\square	*				3 4	3 17	8 59	
21				Δ			2 49	3 58	9 12	
22						Δ	2 34	4 40	9 27	
23	\square	*		\square			2 19	5 25	9 49	
24					Δ		2 3	6 12	10 19	
F	*		δ			\square	1 47	7 4	10 59	
26				*	\square		1 31	7 59	11 54	
27						*	1 14	8 55	morn,	
28	δ						0 57	9 52	1 6	
29			*	*			0 40	10 49	2 25	
30	δ			δ			0 22	11 43	sets	
31	11		\square			δ	0 4	0a35	7a25	

- 1. Q. Anne died 1714
- 5. Crown Point taken 1759
- 6. James II. died 1701
- 8. Cherburg taken 1758
- 16. In a rebellion in Ireland slain 200,000 1641.
- 22. Richard III. killed in Bosworth field 1485.

Tyrants and tyranny ! what can be worse ?
 (To all but slaves) an everlasting curse :
 When his wild will constrains you to obey,
 He then insults you like a beast of prey,
 Let such as slavery seek, to *France* repair,
 Let tyranny no more infest our British air.

1	5	28	8
6	5	29	9
11	6	29	9
16	6	30	9
21	7	0	9
26	7	1	8

M	W	Sundays and	☉ lon	(long	♂	♀	♁	Mutual Aspects
D	D	Remark. Days.	o	o	♁	♁	♁	and Weather.
1	F	15 S.a. Tr. Giles	8m59	0=5	14	22	26	Fine weather for the season, though not without some showers.
2	M	London b. 1666	9 57	14 49	14	23	25	
3	Tu		10 55	29 28	15	23	25	
4	W	Sun rises 5 20	11 53	13m57	16	24	24	
5	Th	Sun sets 6 38	12 51	28 12	16	25	23	
6	F		13 50	12 13	17	25	22	
7	S	Enurchus	14 48	25 59	17	26	21	
8	F	16 S.a. Tr. Nat.	15 46	9 30	18	26	20	♂ ♂ ♀ ♂ ☉ ♀
9	M	[V. M.]	16 45	22 48	19	27	19	
10	Tu		17 43	5 51	19	27	18	Rain and per- haps thunder now about in ♂ ☉ ♂, [Δ ♀ ♀ some places.
11	W	Sun rises 5 34	18 42	18 43	20	28	17	
12	Th		19 40	1 21	21	28	16	
13	F		20 38	13 48	21	29	15	
14	S	Holy Cross	21 37	26 3	22	29	14	
15	F	17 S. aft. Trin.	22 35	8 8	23	30	14	
16	M		23 34	20 4	23	m	13	
17	Tu	Lambert	24 33	1 54	24	1	13	
18	W	Ember Week	25 31	13 41	25	1	12	Frequent showers. ☉ ☉ ♁ Fine, fair, and pleasant near this time.
19	Th	Sun sets 6 11	26 30	25 28	25	1	12	
20	F		27 29	7 18	26	1	12	
21	S	St. Matthew	28 27	19 21	26	1	D	
22	F	18 S.a. Trin. K.	29 26	1 38	27	1	12	
23	M	[Geo. III. cr.]	0=25	14 14	28	2	13	
24	Tu	Sun rises 5 59	1 24	27 13	28	2	13	
25	W	Old Holyrood	2 23	10 40	29	2	14	
26	Th	Cyprian	3 22	24 35	♁	R	15	
27	F		4 21	8m56	0	2	16	☉ ♀ ♂
28	S	Sun sets 5 53	5 20	23 39	1	2	17	
29	F	19 S.a. T. St. Mi.	6 19	8=37	2	1	18	
30	M	Jer. [D. Wir. b.]	7 18	23 41	2	1	19	* ☉ h

Partridge, September 1799. 25

M	Jupiter	Venus	
D	South	South	
1	7 m 9	2 a 32	First Quarter 6th Day, at 3 Afternoon.
6	6 53	2 25	Full Moon 14th Day, at 3 Morning.
11	6 37	2 16	Last Quarter 22d Day, at 7 Morning.
16	6 22	2 5	New Moon 29th Day, at 8 Morning.
21	6 6	1 52	1st Day $\frac{1}{2}$ S. 9m 47, δ o a 19, δ o a 54.
26	5 51	1 36	16th D. 9 o. o o, 11m 19.

M	Lunar Aspects.						Clock	Moon	(rises	Observations.
D	☉	☽	☿	♂	♀	♃	flow	South	& sets	
F		*					o 15	12 26	7 38	<p>About this time some great intrigue of a neighbouring nation will be discovered, and it will, I hope, be much to the advantage of England, and to its enemies great mortification. — The square of Υ and δ at this time will incline mens minds to some violent proceedings.</p> <hr/> <p>3. Cromwell died 1658 5. Bp. Bonner di. 1569 8. Geo. III. and Char. wedded 1761 11. Wm. Con. di. 1087 16. Geo. I. land. 1714 21. Ed. II. murd. 1327 29. Rich. II. dep. 1399</p>
2			Δ	δ			o 34	2 17	7 54	
3	*	\square					o 53	3 8	8 11	
4			*	*			1 12	4 1	8 30	
5		Δ					1 32	4 57	8 55	
6	\square		\square	\square			1 52	5 55	9 28	
7			8	*			2 12	6 54	10 14	
F	Δ		Δ	Δ			2 32	7 54	11 18	
9				\square			2 52	8 51	morn.	
10		8					3 13	9 44	o 31	
11			Δ	Δ			3 34	10 33	1 50	
12							3 55	11 19	3 7	
13	8		8	8			4 16	morn.	4 25	
14	15	Δ	\square				4 37	o 2	rises	
F							4 58	o 43	7a 1	
16		*		8			5 19	1 23	7 13	
17		\square		Δ			5 40	2 3	7 25	
18							6 1	2 45	7 40	
19	Δ	*		Δ			6 22	3 28	7 59	
20							6 43	4 14	8 25	
21	\square		δ	\square			7 4	5 4	9 0	
F				Δ	*		7 25	5 57	9 46	
23							7 46	6 51	10 51	
24	*	δ	*	\square			8 6	7 47	morn.	
25							8 26	8 42	o 7	
26		*	*				8 47	9 37	1 31	
27				δ			9 7	10 30	3 8	
28	8	*	\square	δ			9 26	11 22	4 29	
F	20						9 46	o a 13	sets	
30		\square	Δ	δ			10 5	1 5	6a 24	

For some good end, and for some future use,
 This month our noble Monarch did produce,
 Whose noble soul, and glorious actions show,
 His enmity to Rome, and tyrants too;
 Heaven guide his will, make justice his delight,
 And all his actions crown with glory bright.

1	8	1	8
6	8	1	8
11	9	1	8
16	9	2	7
21	9	R	7
26	10	1	7

M	W	Sundays and	☉ lon	☽ long	♂	♀	♃	Mutual Aspects	
D	D	Remark. Days.	o	o	∞	∞	∞	and Weather.	
1	Tu	Remigius	8 [∞] 17	8 ^m 42	3	1	22	Δ ♀ ♀	
2	W		9 16	23 32	4	1	23	Fine weather, but windy.	
3	Th	Sun rises 6 17	10 15	8 [∞] 6	4	1	25		
4	F	Sun sets 5 41	11 14	22 19	5	0	26		
5	S		12 14	6 [∞] 9	6	0	28		
6	F	20 S. aft. Trin.	13 13	19 39	6	∞	∞		
7	M	[Faith	14 12	2 [∞] 48	7	29	1	□ ♀ ♀	
8	Tu		15 12	15 39	7	29	3	Fine for the	
9	W	Denys	16 11	28 15	8	28	5	* ♀ ♂	
10	Th	O.&C.T.b. O.	17 10	10 [∞] 37	9	28	7	season.	
11	F	[Mic. d.	18 10	22 49	9	27	8	* ♀ ♀	
12	S	Sun rises 6 34	19 9	4 [∞] 52	10	27	10	♂ ♂ ♀	
13	F	21 S. a. T. Tran.	20 9	16 47	11	26	12		
14	M	[Ed. Conf.	21 8	28 38	11	26	13	Windy and	
15	Tu	Sun sets 5 20	22 8	10 [∞] 26	12	25	15	wet weather	
16	W		23 7	22 13	13	24	17	♂ ♂ ♀	
17	Th	Etheldred	24 7	4 11	2	13	24	19	now about.
18	F	St. Luke	25 7	15 56	14	23	20		
19	S		26 6	28 0	15	23	22	♂ ♀ ♀	
20	F	22 S. aft. Trin.	27 6	10 [∞] 16	15	22	24		
21	M		28 6	22 49	16	21	25	Rough winds.	
22	Tu	Sun rises 6 54	29 6	5 [∞] 43	17	21	27		
23	W		∞ ^m 5	19 2	17	20	29	Δ ♂ ♀,	
24	Th		1 5	2 [∞] 48	18	20	∞	[Δ ♀ ♀	
25	F	K. G. 3. se. Crif.	2 5	17 0	19	19	2	♂ ♂ ♀,	
26	S	K. Geo. 3. pro.	3 5	1 [∞] 38	19	19	4	[♂ ♂ ♀	
27	F	23 S. aft. Trin.	4 5	16 36	20	18	5	Stormy near	
28	M	S. Sim. & S. Jude	5 5	1 ^m 46	21	18	7	the end.	
29	Tu		6 5	16 59	21	18	9	□ ♀ ♀	
30	W		7 5	2 [∞] 6	22	17	10		
31	Th	Sun sets 4 50	8 5	16 58	23	17	12		

On its fourth day *November* to adorn,
Was noble, just, and good *King William* born;
Who sav'd this Realm from Rome, which Gallic
aid,

By passive cant and loyalty betray'd:

When knaves and fools had run the shipaground.

'Till *William* came, no Pilot could be found.

1	10	1	8
6	10	1	6
11	10	1	6
16	10	0	6
21	℞	II	5
26	10	29	5

M	W	Sundays and	○ lon	◐ long	♁	♀	♃	Mutual Aspects		
D	D	Remark. Days.	o	' o	'	'	ℓ	and Weather.		
1	F	All Saints	9	6	1	27	23	17	13	☐ ☉ ♄ Frosty and cold.
2	S	Pr. Ed. b. All So.	10	6	15	31	24	17	15	
3	F	24 S. a. Tr. P. So.	11	6	29	8	25	16	17	
4	M	M. K. Wm. Ia. [bo.]	12	6	12	19	25	16	18	Sleet or showers.
5	Tu	Powder plot	13	6	25	8	26	16	20	
6	W	Leon: Ter. heg.	14	7	7	37	27	D	21	
7	Th	Sun rises 7 23	15	7	19	50	27	16	23	Frosty, but Δ ♄ ♁ not bad wea- ther.
8	F	Prs. Aug. So. b.	16	7	1	52	28	16	24	
9	S	Ld. Mayor's da.	17	8	13	46	29	16	26	
10	F	25 S. aft. Trin.	18	8	25	35	29	16	27	Cold rough Δ ♄ ♁ winds, with snow or rain.
11	M	St. Martin	19	8	7	8	23	16	29	
12	Tu	Cam. T. div. m.	20	9	19	11	1	17	1	
13	W	Britius	21	9	1	11	2	1	7	Stormy wea- ther. ☐ ♄ ♁ * ♀ ♁
14	Th	Sun sets 4 24	22	10	12	58	2	17	4	
15	F	Machus	23	11	25	1	3	17	5	
16	S		24	11	7	12	3	18	7	Cold rough Δ ♄ ♁ winds, with snow or rain.
17	F	26 S. aft. Trin.	25	12	19	35	4	18	8	
18	M	[Hugh]	26	13	2	12	5	18	10	
19	Tu	Sun rises 7 42	27	13	15	5	5	19	11	Stormy wea- ther. ☐ ♄ ♁ * ♀ ♁
20	W	Edmund	28	14	28	18	6	19	13	
21	Th	Sun sets 4 14	29	14	11	53	7	20	14	
22	F	Cecilia. O. Mar.	0	15	25	51	7	20	16	Stormy wea- ther. ☐ ♄ ♁ * ♀ ♁
23	S	Clement	1	16	10	2	8	21	17	
24	F	27 S. aft. Trin.	2	16	24	53	9	21	19	
25	M	D. Glo. b. Ca-	3	17	9	51	9	22	20	Cloudy and dull.
26	Tu	[therine]	4	18	24	59	10	23	21	
27	W	Sun rises 7 52	5	19	10	1	6	11	23	
28	Th	Term ends	6	20	25	4	11	24	24	Cloudy and dull.
29	F	Sun sets 4 4	7	21	9	44	12	24	26	
30	S	St. Andrew	8	21	24	0	13	25	27	

Partridge, November 1799. 29

M	Jupiter	Venus	
D	South	South	
1	3m 40	10m 29	First Quarter 4th Day, at Noon.
6	3 20	10 11	Full Moon 12th Day, at 2 Afternoon.
11	2 59	9 55	Last Quarter 20th Day, at Noon.
16	2 37	9 40	New Moon 27th Day, at 4 Morning.
21	2 14	9 27	1st Day h S. 6 m 24, δ 11 m 0, ♄ o a 17.
26	1 50	9 16	16th D. 5 25, 10 38, 0 51.

M	Lunar Aspects.						Clock	Moon		Observations.
	☉	♃	♅	♁	♂	♆		flow	South & sets	
1	*		8				16 14	3a50	7 a 9	
2				□	□	*	16 15	4 50	8 16	A warlike officer
F		8					16 15	5 47	9 34	gains promotion,
4	□				Δ	□	16 14	6 40	10 54	and one of the long
5			Δ	Δ			16 12	7 27	morn.	robe is crowned
6	Δ						16 9	8 11	0 12	with honour. Ma-
7			□			Δ	16 6	8 52	1 27	ny embassies are car-
8		Δ					16 1	9 32	2 38	rying on, and in
9					8		15 56	10 12	3 49	this the Russian,
F			*	8			15 50	10 52	4 59	Prussian, and Ger-
11		□					15 43	11 34	6 11	man Princes are not
12	8						15 36	morn. rises		a little concerned—
13	2	*			8		15 27	0 18	4a40	Some sudden news
14					Δ		15 18	1 4	5 8	arrives from France.
15			♄	Δ			15 8	1 54	5 46	
16				□			14 57	2 46	6 36	1 Lisbon destroy. 1755
F	Δ						14 45	3 39	7 41	5. Powder Plot 1605
18		♄		□	Δ		14 32	4 32	8 54	11. Bat. of Preston 1715
19	□				*		14 19	5 23	10 13	13. Danes maffac. 1002
20			*	*			14 4	6 13	11 36	16. Hen. III. died 1272
21				□			13 49	7 2	morn.	17. Q. Mary died 1694
22	*		□				13 33	7 50	0 59	20. Q. Caroline di. 1737
23		*			♄	*	13 16	8 38	2 23	22. Porto Bello ta. 1739
F			Δ				12 58	9 28	3 51	28 Car. Wolfey di. 1530
25		□		♄			12 40	10 21	5 21	
26	♄						12 20	11 18	6 55	
27	16	Δ		*	♄		12 0	0a20	sets	
28			8				11 40	1 24	4a45	
29			*				11 18	2 28	5 49	
30				□			10 56	3 29	7 6	

30 DECEMBER hath xxxi days.

M h 24 D
D Ω II 88

Poor men are little thrubs, rich men tall trees,
Those 'scape sequestering storms, so do not these;
The man of riches, and the Potentate,
Most subject are to bitter frowns of fate :
For in this world, all's fickle, nought is firm,
Law, Cities, Empires, have but here their
term.

1 10 29 8
6 10 28 5
11 10 27 4
16 10 27 4
21 9 26 4
26 9 25 4

M	W	Sundays and	☉ lon	☽ long	♂	♀	♃	Mutual Aspects
D	D	Remark. Days.	o ' o	' o ' m	♂ ♀ ♃ ♄	♂ ♀ ♃ ♄	♂ ♀ ♃ ♄	and Weather.
1	F	Advent Sunday	9 4 22	7 47	13	26	29	Cold winds,
2	M	Sun rises 7 58	10 23	21 6	14	27	15	Δ ☉ ♃
3	Tu		11 24	3 59	15	27	1	with frosts.
4	W	Sun sets 4 0	12 25	16 29	15	28	2	Δ ♃ ♀
5	Th		13 26	28 41	16	29	4	
6	F	Nicholas	14 27	10 39	17	30	5	♄ ♃ or
7	S		15 28	22 30	17	0	6	showers.
8	F	3. S. in Adv. Con	16 29	4 16	18	1	7	
9	M	[ception	17 30	16 4	19	2	8	
10	Tu		18 31	27 55	20	3	9	Some dark
11	W	Sun rises 8 5	19 32	9 53	20	4	10	foggy wea-
12	Th		20 33	21 59	21	5	11	ther.
13	F	Lucy	21 34	4 16	22	6	11	
14	S		22 35	16 43	22	6	12	Frosty, fair,
15	F	3 S. in Advent	23 37	29 21	23	7	12	and pleasant.
16	M	Ca. T. e. O. Sap.	24 38	12 11	24	8	12	
17	Tu	Oxford T. ends	25 39	25 14	24	9	12	♄ ☉ ♃,
18	W	Ember Week	26 40	8 30	25	10	12	[☉ ♃ ♀
19	Th	Sun sets 3 52	27 41	22 2	26	11	12	* ♀ ♄
20	F		28 42	5 49	26	12	11	
21	S	St. Tho Shortest	29 43	19 54	27	13	11	Frost and
22	F	4 S. in Adv [day	0 44	4 14	28	14	10	snow about
23	M		1 46	18 49	28	15	9	this time.
24	Tu	Sun rises 8 8	2 47	3 35	29	16	8	
25	W	Christmas day	3 48	18 24	♄	17	6	
26	Th	St. Stephen	4 49	3 10	1	18	5	♄ ☉ ♄
27	F	St. John Ev.	5 50	17 44	1	19	3	Cloudy, dark,
28	S	Innocents	6 52	1 59	2	20	2	dull weather.
29	F	1 S. aft. Christ.	7 53	15 50	3	21	1	
30	M	Sun sets 3 54	8 54	2 14	3	22	♄	
31	Tu	Silvester	9 55	12 11	4	23	20	

Partridge, December 1799. 31

M	Jupiter	Venus			
D	South	South			
1	1m 26	9m 8			First Quarter 4th Day, at 3 Morning.
6	1 2	9 1			Full Moon 12th Day, at 9 Morning.
11	o 37	8 55			Last Quarter 19th Day, at 11 Night.
16	o 11	8 50			New Moon 26th Day, at 3 Afternoon.
21	11 a 44	8 47			1st Day $\frac{1}{2}$ S. 4 m 22, $\frac{3}{8}$ 10m 14, $\frac{5}{8}$ 1 a 23.
26	11 16	8 45			16th D. 3 14, 9 49, 1 17.

M	Lunar Aspects.						Clock	Moon	rises	Observations.
	☉	♃	♅	♁	♂	♆				
F	*	8		□			10 34	4a25	8a27	<p>The greatest councils of Europe are at work. God give them thoughts and direct them, that we may see a good issue, and endeavour to live in love and unity one with another. We hope an harmonious concordance will be given to their resolutions, and good success.</p> <hr/> <p>1. Henry I. died 1135 2. Mar. comp. inv. 1300 4. 130 fail of Dutch ships taken 1664 12. Cromwell made protector 1653 29. T. Becket murder'd at Canterbury 1171 30. Royal Society of London inst. 1660</p>
2			△		△	*	10 10	5 16	9 49	
3	□			△			9 46	6 11	11 7	
4							9 22	6 44	morn.	
5		△	□			□	8 57	7 24	0 22	
6	△						8 31	8 3	1 32	
7			*		8		8 5	8 42	2 41	
F	□					△	7 39	9 23	3 49	
9				8			7 12	10 6	5 0	
10							6 45	10 51	6 12	
11	8	*					6 17	11 40	7 23	
12	21		♄				5 49	morn.	rises	
13				△	8		5 21	0 32	4a22	
14				△			4 52	1 25	5 22	
F		♄		□			4 23	2 18	6 35	
16				□			3 54	3 10	7 53	
17	△		*				3 24	4 0	9 12	
18					*	△	2 54	4 48	10 33	
19	□		□	*			2 25	5 34	11 54	
20		*				□	1 55	6 21	morn.	
21	*		△				1 25	7 8	1 16	
F	□				♄	*	0 54	7 57	2 40	
23				♄			0 24	8 50	4 10	
24		△					ofa 6	9 47	5 43	
25			8				0 36	10 49	7 11	
26	♄				♄		1 6	11 53	4 sets	
27	3				*		1 36	0a57	4a26	
28		8		*			2 6	1 56	5 45	
F			*	□			2 35	2 51	7 13	
30	*			□		*	3 4	3 40	8 32	
31			□		△		3 33	4 25	9 49	

A Compendious Chronology of the most principal Epochas and Æras, with their Beginnings, reduced and fixed to the Years of the Julian Period, the Creation of the World, and to the Years before and after Christ.

	Julian Period	Anno Mundi	Ante Christ
THE Creation of the World after the Jews - - - }	952		13700
The Common Epocha of the Creation	765		13950
The same by the Greek Emperors -	787		13926
The same in Mr. Bedford's Scripture Chronology - - -	706		14007
The same in Bishop Usher's Annals -	710		14004
The Deluge, or Noah's Flood -	2362	1657	2351
Porphyrius's Caldaic Epocha -	2480	1717	2200
The Assyrian Monarchy by Nimrod -	2665	1960	2048
The Birth of Abraham - - -	2714	2009	1999
Joseph sold into Egypt - - -	2986	2281	1728
The Israelites 400 Years Servitude in Egypt	2819	2114	1894
The Kingdom of Argos founded by Inachus	2857	2152	1856
The Birth of Moses - - -	3143	2438	1571
The Kingd. of Athens founded by Cecrops	3157	2452	1556
The Israelites departure out of Egypt	3219	2514	1494
Their Entrance into Canaan, or the Jubilee	3258	2553	1459
The Destruction of Troy - - -	3530	2825	1483
The first Sabbatical Year - - -	3260	2557	1451
The Jewish High Priesthood - - -	3300	2603	1405
The Reign of King David - - -	3646	2941	1067
The foundation of Solomon's Temple	3698	2993	1015
The Varronian Epocha - - -	3750	3197	811
The Catonian Epocha - - -	3761	3198	810
The Epocha of Nabonassar - - -	3966	3261	747
The Olympiads - - -	3938	3233	775
The Building of Rome - - -	3962	3257	751
The Destruction of the Kingdom of Israel	3992	3287	721
The Beginning of Nebuchadonosor -	405	3300	708
The Babylonish Captivity - - -	4108	3302	706
The Destruction of Solemon's Temple	4126	3421	587

	Julian Period	Anno Mund	Anno Christ
Daniel delivered from the Den of Lions	4176	3470	538
The Temple of Jerusalem rebuilt -	4198	3488	520
Cyrus the Founder of the Persian Monarchy	4178	3472	536
The Regifugium Epocha - - - -	4205	3500	508
The Battle at Marathon - - - -	4223	3517	491
Xerxes's Defeat at the Battle of Salamis	4234	3528	480
The Beginning of the Peloponnesian War	4281	3575	433
Meto the Athenian began his Circle -	4282	3576	432
Daniel's 70 Weeks of Years began -	4269	3564	444
The Beginning of the Callippick Period	4383	3677	331
The Death of Alexander - - - -	4390	3684	324
The Grecian Epocha of the Seleucida	4402	3695	312
The Era of the Asmoneans or Maccabees	4548	3841	166
The Epocha of Simon - - - -	4570	3865	143
The Julian Epocha, or Correct Calend.	4669	3962	46
The Beginning of the Reign of Herod	4677	3970	37
The Spanish Era - - - -	4676	3969	36
The Battle of Actium - - - -	4683	3976	31
The taking of Alexandria - - - -	4684	3977	30
The Epocha of the Title of Augustus -	4687	3980	27
The true Birth of CHRIST - - - -	4710	4005	4
The Vulgar or Dionysian Years of Christ	4714	4009	Anno Christ
The Passion or Death of Christ - -	4746	4041	33
The Destruction of Jerusalem - - -	4783	4078	70
The Dioclesian or Era of Martyrs -	4997	4292	284
The Dioclesian Persecution - - -	5015	4310	302
The Epocha of Constantine the Great	5019	4314	306
The Council of Nice - - - -	5038	4333	325
The Encania of Constantinople - -	5043	4338	330
Phocas makes Pope Boniface Head of the Church - - - -	5319	4614	606
Mahomet broaches his Imposture at Mecca	5321	4616	608
The Epocha of the Hegira - - - -	5335	4630	622
The Epocha of Yesdejerd - - - -	5345	4640	632
The Jellalæan or Gelalæan Epocha -	5792	5087	1079
The Epocha of the Reformation - -	6230	5525	1517
The Revolution effected by King William	6401	5696	1688
The British Epocha, or correct Kalendar	6465	5760	1752

A TABLE of HOUSES for the Latitude of 51 Degrees
32 Minutes, according to the Doctrine of Ptolemy,
serving the City of London, &c.

☉ in ♈								☉ in ♉										
Time	Ascen							Time	Ascen									
from	10	11	12	1	2	3		from	10	11	12	1	2	3				
noon.	♈	♄	♅	♆	♇	♈		noon.	♉	♅	♆	♇	♈	♉				
a	m	gr	gr	gr	gr	m	gr	gr	h	m	gr	gr	gr	gr	m	gr	gr	
0	0	0	9	22	26	42	12	3	1	52	0	9	17	16	31	4	28	
0	4	1	10	23	27	22	13	3	1	55	1	10	18	17	11	5	29	
0	7	2	11	24	28	2	14	4	1	59	2	11	19	17	5	6	30	
0	11	3	12	25	28	42	15	5	2	3	3	12	19	18	31	7	1	
0	15	4	13	25	29	21	15	6	2	7	4	13	20	19	12	8	2	
0	18	5	14	26	0	Ω	1	6	7	2	11	5	14	21	19	52	9	3
0	22	6	15	27	0	40	17	8	2	15	6	15	22	20	32	9	4	
0	26	7	16	28	1	20	18	8	2	19	7	16	22	21	13	10	5	
0	29	8	17	29	2	0	18	9	2	22	8	17	23	21	54	11	6	
0	33	9	18	29	2	39	19	10	2	26	9	18	24	22	35	11	7	
0	37	10	19	1	3	19	20	11	2	30	10	19	25	23	16	12	8	
0	40	11	20	1	3	59	20	12	2	34	11	20	25	23	57	13	9	
0	44	12	21	2	4	38	21	13	2	38	12	21	26	24	38	14	10	
0	48	13	22	3	5	17	22	14	2	42	13	22	27	25	19	14	11	
0	51	14	23	4	5	57	23	15	2	46	14	23	28	26	0	15	12	
0	55	15	24	5	6	36	23	15	2	50	15	24	29	26	42	16	12	
0	59	16	25	6	7	15	24	16	2	54	16	25	29	27	24	17	13	
I	3	17	26	6	7	55	25	17	2	58	17	26	Ω	28	6	18	14	
I	6	18	27	7	8	34	26	18	3	2	18	27	1	28	47	18	15	
I	10	19	28	8	9	14	26	19	3	6	19	28	2	29	30	19	16	
I	14	20	29	9	9	53	27	19	3	10	20	29	3	Ω	13	20	17	
I	18	21	II	10	10	33	28	20	3	14	21	29	3	0	55	21	18	
I	21	22	1	10	11	12	28	21	3	18	22	29	4	1	37	22	18	
I	25	23	2	11	11	52	29	22	3	22	23	1	5	2	20	22	19	
I	29	24	3	12	12	32	29	23	3	26	24	2	6	3	2	23	20	
I	33	25	4	13	13	12	1	24	3	31	25	3	7	3	46	24	21	
I	36	26	5	14	13	52	1	25	3	35	26	4	7	4	29	25	22	
I	40	27	6	14	14	32	2	25	3	39	27	5	8	5	12	26	23	
I	44	28	7	15	15	12	3	26	3	43	28	6	9	5	55	27	24	
I	48	29	8	16	15	51	4	27	3	47	29	7	10	6	39	27	25	
I	52	30	9	17	16	31	4	28	3	51	30	8	11	7	22	28	25	

TABLE OF HOUSES. 35

A TABLE of HOUSES for the Latitude of 51 Degrees 32 Minutes, according to the Doctrine of Ptolemy, serving the City of London, &c.

☉ in ♀										☉ in ☊									
Time from noon.	10	11	12	Ascen			Time from noon.	10	11	12	Ascen								
	II	☊	☉	♊	♋	♌		☊	☉	♊	♋	♌	♍						
h	m	gr	gr	gr	gr	m	gr	gr	gr	gr	m	gr	gr						
3	51	0	8	11	7	22	28	25	6	0	0	6	6	0	0	24	24		
3	55	1	9	12	8	6	29	26	6	4	1	7	7	0	47	25	25		
4	0	2	10	13	8	50	♌	27	6	9	2	8	8	1	33	26	26		
4	4	3	10	14	9	34	1	28	6	13	3	9	9	2	19	27	27		
4	8	4	11	15	10	18	2	29	6	17	4	10	10	3	5	27	28		
4	12	5	12	16	11	3	2	♍	6	22	5	11	11	3	51	28	29		
4	16	6	13	17	11	47	3	1	6	26	6	12	12	4	37	29	♄		
4	21	7	14	17	12	31	4	2	6	31	7	13	13	5	23	♍	1		
4	25	8	15	18	13	16	5	3	6	35	8	14	14	6	9	1	2		
4	29	9	16	19	14	1	6	4	6	39	9	15	15	6	55	2	3		
4	33	10	17	20	14	46	7	5	6	44	10	16	16	7	40	2	4		
4	38	11	18	21	15	31	8	6	6	48	11	17	16	8	26	3	4		
4	42	12	19	21	16	16	8	7	6	52	12	18	17	9	12	4	5		
4	46	13	20	22	17	1	9	8	6	57	13	19	18	9	57	5	6		
4	51	14	21	23	17	46	10	9	7	1	14	20	19	10	41	6	7		
4	55	15	22	24	18	32	11	10	7	5	15	21	20	11	28	7	8		
4	59	16	23	24	19	17	12	11	7	9	16	22	21	12	14	8	9		
5	3	17	24	25	20	4	13	12	7	14	17	23	22	12	59	8	10		
5	8	18	25	26	20	49	14	13	7	18	18	24	22	13	45	9	11		
5	12	19	25	27	21	35	14	14	7	22	19	25	23	14	30	10	12		
5	16	20	26	28	22	20	15	14	7	27	20	26	24	15	14	11	13		
5	21	21	27	28	23	6	16	15	7	31	21	27	25	15	59	12	14		
5	25	22	28	29	23	51	17	16	7	35	22	28	25	16	44	13	15		
5	29	23	29	♋	24	37	18	17	7	39	23	28	26	17	29	13	16		
5	34	24	☉	1	25	23	19	18	7	44	24	29	27	18	14	14	17		
5	38	25	1	2	26	9	20	19	7	48	25	♋	28	18	58	15	18		
5	43	26	2	3	26	55	20	20	7	52	26	1	28	19	42	16	19		
5	47	27	3	4	27	41	21	21	7	56	27	2	29	20	26	17	20		
5	51	28	4	5	28	27	22	22	8	0	28	3	♌	21	10	18	20		
5	56	29	5	5	29	13	23	23	8	5	29	4	1	21	54	18	21		
6	0	30	6	6	30	0	24	24	8	9	30	5	2	22	38	19	22		

A TABLE of HOUSES for the Latitude of 51 Degrees 32 Minutes, according to the Doctrine of Ptolemy, serving the City of London, &c.

☉ in ♍										☉ in ♎									
Time from noon		Ascen						Time from noon		Ascen									
h	m	gr	gr	gr	gr	m	gr	h	m	gr	gr	gr	gr	m	gr	gr			
8	9	0	5	2	22	38	19	22	10	8	0	2	26	13	30	13	20		
8	13	1	5	3	23	22	20	23	10	12	1	3	26	14	9	14	21		
8	17	2	6	3	24	5	21	24	10	16	2	4	27	14	49	15	22		
8	21	3	7	4	24	48	22	25	10	20	3	5	28	15	29	16	23		
8	25	4	8	5	25	32	23	26	10	24	4	5	29	16	9	16	24		
8	29	5	9	6	26	15	23	27	10	27	5	6	29	16	48	17	25		
8	34	6	10	7	26	58	24	28	10	31	6	7	m	17	28	18	26		
8	38	7	11	8	27	41	25	29	10	35	7	8	1	18	6	19	27		
8	42	8	12	8	28	23	26	30	10	39	8	9	2	18	48	20	28		
8	46	9	13	9	29	6	27	1	10	42	9	10	2	19	27	20	29		
8	50	10	14	10	29	48	27	2	10	46	10	11	3	20	6	21	30		
8	54	11	15	11	om	30	28	3	10	50	11	11	4	20	48	22	31		
8	58	12	16	12	1	13	29	4	10	54	12	12	4	21	26	23	32		
9	2	13	17	12	1	55	2	4	10	57	13	13	5	22	5	24	33		
9	6	14	18	13	2	36	1	5	11	1	14	14	6	22	45	24	34		
9	10	15	18	14	3	18	2	6	11	5	15	15	7	23	24	25	35		
9	14	16	19	15	4	0	2	7	11	9	16	16	7	24	4	26	36		
9	18	17	20	16	4	41	3	8	11	12	17	17	8	24	43	27	37		
9	22	18	21	16	5	22	4	9	11	16	18	17	9	25	23	28	38		
9	26	19	22	17	6	4	5	10	11	20	19	18	10	26	3	29	39		
9	30	20	23	18	6	45	5	11	11	23	20	19	10	26	42	30	40		
9	34	21	24	19	7	26	6	12	11	27	21	20	11	27	22	31	41		
9	38	22	25	19	8	6	7	13	11	31	22	21	12	28	1	11	42		
9	41	23	26	20	8	47	8	14	11	34	23	22	13	28	40	2	14		
9	45	24	27	21	9	28	9	15	11	38	24	23	13	29	20	3	15		
9	49	25	28	22	10	8	9	16	11	42	25	23	14	29	59	4	16		
9	53	26	28	23	10	48	10	17	11	45	26	24	15	0	2	39	5	17	
9	57	27	29	23	11	29	11	18	11	49	27	25	15	1	19	5	18		
10	1	28	29	24	12	9	12	19	11	53	28	26	16	1	59	6	19		
10	5	29	1	25	12	50	12	20	11	56	29	26	17	2	39	7	20		
10	8	30	2	26	13	30	13	20	12	0	30	27	17	3	19	8	21		

TABLE OF HOUSES.

A TABLE of HOUSES for the Latitude of 51 Degrees 32 Minutes, according to the Doctrine of Ptolemy, serving the City of London, &c.

☉ in ♌										☉ in ♍									
Time from noon.		Ascen.								Time from noon.		Ascen.							
h	m	gr	gr	gr	gr	m	gr	gr	gr	h	m	gr	gr	gr	gr	m	gr	gr	gr
12	0	0	27	17	3	19	8	21		13	52	0	22	10	25	15	10	27	
12	4	1	28	18	3	59	9	22		13	55	1	23	11	26	5	11	28	
12	7	2	29	19	4	39	10	24		13	59	2	24	11	26	5	12	29	♄
12	11	3	30	20	5	20	11	25		14	3	3	25	12	27	47	14	1	
12	15	4	1	20	6	2	11	26		14	7	4	25	13	28	3	15	2	
12	18	5	1	21	6	43	12	27		14	11	5	26	14	29	31	16	4	
12	22	6	2	22	7	24	13	28		14	15	6	27	15	0	24	18	5	
12	26	7	3	23	8	5	14	29		14	19	7	28	15	1	18	19	6	
12	29	8	4	23	8	46	15	30		14	22	8	29	16	2	13	20	8	
12	33	9	5	24	9	28	16	2		14	26	9	30	17	3	10	22	9	
12	37	10	6	25	10	10	17	3		14	30	10	1	18	4	6	23	10	
12	40	11	6	25	10	52	19	4		14	34	11	2	19	5	3	25	11	
12	44	12	7	26	11	35	20	5		14	38	12	2	20	6	1	26	13	
12	48	13	8	27	12	17	21	6		14	42	13	3	20	7	0	28	14	
12	51	14	9	28	12	59	22	7		14	46	14	4	21	8	0	29	15	
12	55	15	10	28	13	42	23	9		14	50	15	5	22	9	2	30	17	
12	59	16	11	29	14	26	24	10		14	54	16	6	23	10	6	2	18	
13	3	17	12	1	15	10	25	11		14	58	17	7	24	11	9	4	19	
13	6	18	12	1	15	54	26	12		15	2	18	8	25	12	14	6	21	
13	10	19	13	1	16	39	27	13		15	6	19	9	26	13	21	8	22	
13	14	20	14	2	17	23	28	15		15	10	20	9	27	14	29	9	23	
13	18	21	15	3	18	8	29	16		15	14	21	10	27	15	37	11	24	
13	21	22	16	4	18	54	30	17		15	18	22	11	28	16	46	13	26	
13	25	23	16	4	19	39	1	18		15	22	23	12	29	17	58	14	27	
13	29	24	17	5	20	26	2	20		15	26	24	13	30	19	11	16	28	
13	33	25	18	6	21	14	4	21		15	31	25	14	1	20	27	17	29	
13	36	26	19	7	22	1	5	22		15	35	26	15	2	21	43	19	8	
13	40	27	20	7	22	49	6	23		15	39	27	16	3	23	3	21	2	
13	44	28	21	8	23	37	7	24		15	43	28	17	4	24	24	22	3	
13	48	29	21	9	24	26	8	25		15	47	29	18	5	25	47	24	5	
13	52	30	22	10	25	15	10	27		15	51	30	18	6	27	10	26	6	

A TABLE of HOUSES for the Latitude of 51 Degrees 32 Minutes, according to the Doctrine of *Ptolemy*, serving the City of *London*, &c.

☉ in ♄										☉ in ♃											
Time from noon.				Ascen			Time from noon.				Ascen			Time from noon.				Ascen			
	10	11	12	1	2	3		10	11	12	1	2	3		10	11	12	1	2	3	
	♄	♄	♃	♃	♂	♂		♃	♃	♂	♂	♂		♂	♂	♂	♂	♂	♂		
h	m	gr	gr	gr	gr	m	gr	gr	gr	gr	gr	gr	h	m	gr	gr	gr	gr	m	gr	gr
15	51	0	18	6	27	10	26	6	18	0	0	18	13	0	0	17	17	17	17	17	17
15	55	1	19	7	28	37	28	7	18	4	1	20	14	2	37	19	12	12	12	12	12
16	0	2	20	8	0	6	9	9	18	9	2	21	16	5	19	20	13	13	13	13	13
16	4	3	21	9	1	38	1	10	18	13	3	22	17	7	58	22	14	14	14	14	14
16	8	4	22	10	3	12	3	11	18	17	4	23	19	10	31	23	15	15	15	15	15
16	12	5	23	11	4	48	5	12	18	22	5	24	20	13	7	25	10	10	10	10	10
16	16	6	24	12	6	27	7	14	18	26	6	25	22	15	37	26	17	17	17	17	17
16	21	7	25	13	8	8	9	15	18	30	7	26	23	18	7	28	18	18	18	18	18
16	25	8	26	14	9	52	11	16	18	35	8	27	25	20	35	29	19	19	19	19	19
16	29	9	27	16	11	40	12	17	18	39	9	29	27	23	0	11	20	20	20	20	20
16	33	10	28	17	13	30	14	18	18	44	10	28	25	22	0	12	21	21	21	21	21
16	38	11	29	18	15	27	16	20	18	48	11	1	27	43	2	23	22	22	22	22	22
16	42	12	30	19	17	16	18	21	18	52	12	2	2	0	8	0	24	24	24	24	24
16	46	13	1	20	19	15	20	22	18	57	13	3	3	2	16	5	25	25	25	25	25
16	51	14	2	21	21	17	21	23	19	1	14	4	5	4	27	6	26	26	26	26	26
16	55	15	3	22	23	23	23	25	19	5	15	6	7	6	33	8	27	27	27	27	27
16	59	16	4	24	25	32	25	26	19	9	16	7	9	8	39	9	28	28	28	28	28
17	4	17	5	25	27	44	27	27	19	14	17	8	10	10	43	10	29	29	29	29	29
17	8	18	6	26	29	58	28	28	19	18	18	9	12	12	42	11	30	30	30	30	30
17	12	19	7	27	2	17	8	29	19	22	19	10	14	14	40	12	1	1	1	1	1
17	16	20	8	29	4	38	2	30	19	27	20	12	16	16	31	13	2	2	2	2	2
17	20	21	9	30	7	0	3	1	19	31	21	13	18	18	20	15	3	3	3	3	3
17	25	22	10	1	9	24	5	2	19	35	22	14	19	20	5	16	4	4	4	4	4
17	30	23	11	3	11	53	7	3	19	39	23	15	21	21	52	17	5	5	5	5	5
17	34	24	12	4	14	23	8	5	19	44	24	16	23	23	33	18	6	6	6	6	6
17	38	25	13	5	16	55	10	6	19	48	25	18	25	25	13	19	7	7	7	7	7
17	43	26	14	7	19	29	11	7	19	52	26	19	27	26	49	0	8	8	8	8	8
17	47	27	15	8	22	5	13	8	19	56	27	20	28	28	22	21	9	9	9	9	9
17	51	28	16	11	24	42	14	9	20	0	28	21	29	29	53	22	10	10	10	10	10
17	56	29	17	12	27	20	16	10	20	5	29	23	1	11	23	23	11	11	11	11	11
18	0	30	18	13	30	0	17	11	20	9	30	24	2	2	51	24	12	12	12	12	12

TABLE OF HOUSES.

39

A TABLE of HOUSES for the Latitude of 51 Degrees 32 Minutes, according to the Doctrine of Ptolemy, serving the City of London, &c.

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

Of the ECLIPSES of the SUN, 1799.

THIS year affords two Eclipses of the SUN, both of them nearly central; the one before his Apogee, and the other after it; consequently we cannot expect the Moon to be eclipsed at all until the year following.

The first of these Solar Eclipses will happen on Sunday, the 5th of May, at 15 minutes before our 1 o'clock in the morning; therefore, of course, it must be invisible to us. This will be a very great Eclipse in the Great Pacific Ocean; for in 8 degrees of North latitude, and 177 degrees 37 minutes of East longitude from London, the Sun will be both centrally and annularly eclipsed, and that precisely at noon-day, when a beautiful and splendid ring of light will appear all around the Moon's dark body. The Sun also will be partially eclipsed (more or less in quantity) at the Sandwich Islands, at the Society and Friendly Islands, the New Hebrides, New Caledonia, and it will be seen as far as New Zealand, towards the South Pole. It will be visible in New Holland, New Guinea, the Ladrone Islands, and as far North from thence as the Island of Japan.

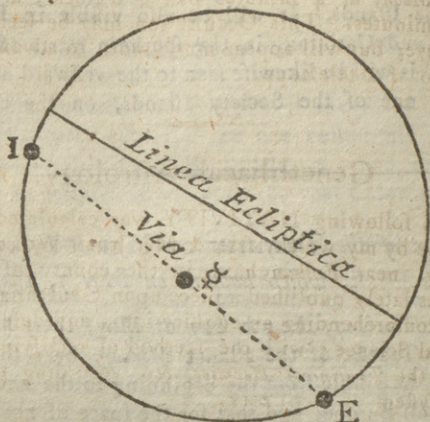
The other Solar Eclipse happens on Monday the 28th of October, at 36 minutes past our 5 o'clock in the evening, invisible to us; for the Sun sets that day, at London, at 54 minutes past 4 o'clock. This is also a very great Eclipse, for it will be both central and total at noon-day, in the Great Pacific Ocean, or Great South Sea, near the western coasts of Peru, in South America, in 5 degrees 15 minutes of South latitude, and about 83 degrees of West longitude from London. This Eclipse will be visible (more or less in quantity) to the whole continent of South America; it will be seen at the Island of Jamaica;

Jamaica; at the Island of Cuba, and all the rest of the West India Islands. It will be also visible in Florida, Georgia, and Carolina, in the southern parts of North America. It will be likewise seen to the westward as far as Otaheite, one of the Society Islands, on the coast of Africa,

An Account of the TRANSIT OF MERCURY over the SUN'S DISK, which happens on May 7, 1799.

UPON Tuesday, the 7th day of May, there happens a notable Transit of the Planet *Mercury* over the *Sun*, which will be visible from the beginning to the end, both to us and all Europe, and that for the space of near seven hours and a half. The Planet *Mercury*, divested intirely of its radiancy, will be seen on the *Sun*, in the form of a round black spot, and visible, if the sky be clear at the time, to all places of the Earth where the *Sun* is up. *Mercury* may be seen on the *Sun* by sharp eyes, only defended by the interposition of a dark glass, or a piece of clear window glass smoked over the flame of a candle; but will appear much larger, and more to advantage, with the help of a telescope. The precaution of interposing a dark glass between the eye and the telescope will be necessary, or otherwise the sight may be impaired, if not nearly destroyed; but, thus shielded, it will be perfectly secure from danger, or any inconvenience. This Transit will be visible, from the middle to the end, to all North and South America, and the West India Islands; the beginning will be seen in Eastern Tartary, China, the Philippine Islands, the Islands of Borneo, Sunda, and Java, and on the western coast of New Holland, but the *Sun* will set with them soon after.

THE TYPE.



At London, according to apparent time, the ingress at I, is May the 7th, at 1 minute after 9 o'clock in the morning; the middle of the transit will be at 43 minutes past 12 at noon; and the egress at E, is at 25 minutes past 4 in the afternoon.

OCULTATIONS of the PLANETS by the MOON.

ON Wednesday, the 16th of January, there happens an Occultation of the Planet *Jupiter* by the *Moon*, and visible in these parts, if the air proves clear. *Jupiter* will be seen some time at a little distance from the *Moon*; and at 49 minutes past 1 o'clock in the morning, will be seen to immerge behind the dark part of the *Moon's* Limb; and at 40 minutes past 2, solar time at London, he will appear again to emerge from behind the bright part of the *Moon's* limb; after being hid 51 minutes. Though this may be seen by the naked eye, yet it will appear the most beautiful through a telescope.

Also, on Saturday, the 24th of November, soon after the *Moon* rises in the morning, she will eclipse the morning Star, the beautiful Planet *Venus*. This fine Star will immerge behind the bright part of the *Moon*, at 5 minutes past 4 o'clock, solar time at London; and *Venus* will

will again be seen to emerge from behind the dark part of the *Moon*, at 4 minutes past 5 o'clock; after being hid 59 minutes. This Occultation may be seen with the naked eye; but will appear much more to advantage with the help of a telescope.

Genethliacal Astrology.

THE following NATIVITY was calculated and sent me by my worthy friend Mr. JOHN WORSDALE, of Spanby, near Folkingham, in the county of Lincoln, who has lately published a piece upon Genethliacal Astrology, comprehending an enquiry into, and defence of the Celestial Science; with the method of rectifying Nativities by the *Trutine of Hermes*, &c. according to the genuine system of PTOLEMY.

The NATIVITY of a YOUNG LADY.

- “ In plains of Shinor, where enlarged sky
- “ Presents vast prospects for th' admiring eye,
- “ The long liv'd Patriarchs, as their flocks they fed,
- “ Observ'd the wand'ring glories over head;
- “ Trac'd all their laws and motions, and from thence,
- “ By sage experience, learn'd their influence.”

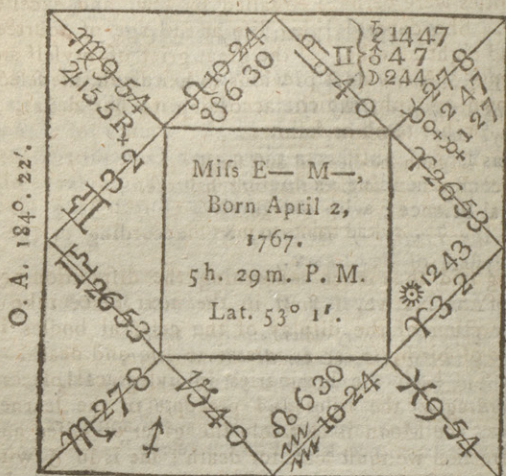
This is the Nativity of a young lady, who was very nearly related to me; the time of her birth was carefully observed, and the apparent time obtained by her father, by whose permission I now present it to the public, for the pleasure of those who delight to employ their leisure hours in sidereal speculations.

I shall begin first with observing, that in this geniture we find the celestial sign ♋ occupying the ascendant, and ♀ , being lady thereof, signifies the native, whom we find in ♄ of ♁ , who has dignities in the ninth house, the house of religion and science, thereby disposing of the ♃ , ♆ and ♅ . Such a position gives a beautiful person, adorned with wit, ingenuity, and eloquence; makes the native courteous, and furnishes her with variety of arts and learning, and is consequently a configuration of very great importance; all which circumstances in this nativity

nativity have been confirmed in a most astonishing manner, as will evidently appear from the following authentic particulars.

The SCHEME of her NATIVITY.

R. A. $94^{\circ} 22'$.



The Latitude of the Planets.

♃ $1^{\circ} 13' S.$	♂ $1^{\circ} 2' N.$	♁ $2^{\circ} 45' N.$
♃ $21 30 N.$	♀ $0 24 S.$	♃ $4 34 N.$

The Declination of the Planets.

♃ $21^{\circ} 23' N.$	☉ $5^{\circ} 2' N.$	♃ $25^{\circ} 6' N.$
♃ $21 7 15 N.$	♀ $12 2 N.$	
♂ $21 59 N.$	♁ $14 27 N.$	

When this native was only twelve years of age, she understood the Latin language completely, to the great astonishment of many persons of talents, who were acquainted with her; she also at that age was perfectly able to calculate eclipses, both solar and lunar, which amazed every regular student in the noble science of astronomy. This native was also much attached to the study of music,

in

in which she advanced very considerably; the instruments which she played upon most were the spinet, organ, and harpsichord; she was also affected to the study of poetry, and wrote several very elaborate pieces which met with universal approbation: In fine, I presume, her morals and abilities were perhaps equalled by few, and excelled by none. She departed this life at the age of fourteen years and eight months, to the great grief of myself and her parents. A few days previous to her death, she selected her own epitaph, which, according to her desire, is engraven on her tomb as follows:

- “ In faith she dies, in dust she lies;
 “ But faith foresees that dust shall rise,
 “ When Jesus, by Almighty Word,
 “ Calls his dead Saints to meet their Lord.”

Having said thus much concerning the disposition and morals of this native, I shall in the next place take a short inspection of the display of the celestial bodies in her figure of birth, so far as relates to life and death. — We here find both the luminaries in hylegiacal places; but according to the rules and precepts of the learned PROLEMY, the Moon is certainly the giver of Life, and to her direction we must look for death; she is in ζ with δ , the \odot 's dispositor, and applying to the body of η , by a right motion in the Zodiac, and also to the \square of μ ; it is moreover observable, that the ν is afflicted by the body of δ , which unfortunate configuration is considerably augmented by the violent beams of Aldebaran; therefore it is obvious, from these considerations, that the ν 's direction to the ζ of η in the Zodiac, deprived her of life, as the Almighty had appointed it from the beginning. In this figure, μ is afflicted in a violent part of the Heavens, retrograde, and in his detriment, and also in \square of η ; but as μ , by being unfortunate, could by no means break the malignant efficacy of η , so we may rationally conclude that this Nativity is very weak, owing to the unfortunate position of the ν , to whom the dignity of Hyleg belongs. Much more might be said on this geniture, but I shall decline entering into particulars, especially concerning the quality of death, which I am inclined to think and believe must have been very remarkable;

able; and tho' I have never yet heard any thing relative to the species of the calamity of which the Native died, yet what is found displayed in the celestial constitution concerning it, I do not think requisite to disclose, but shall leave that important subject until a future opportunity; and conclude, by observing from the foregoing premises, that there is consequently a time for every purpose under heaven, which cannot by any means be counteracted or opposed by the most skilful of human inventions; and also that we, in this state of frailty and corruption, are in a degree similar to the flowers and grass of the field, which, when plucked up, whither, die, and return no more.

Astrological Observations for the Year 1799.

THE WINTER QUARTER,

Or, *The Sun's Transit through ♄, ♃, ♀.*

THIS Quarter begins *December 21*, at 42 min. past 12 o'clock at noon, 1798, when 10 deg. of *Capricorn* culminate, and 25 deg. of *Aries* ascend in the East; ♄ in the 4th, in 24 degrees of ♄; ♃ in the ascendant, in 17 degrees of ♄; ♀ in ♄, the ascendant of *England*; ♁ in 28 degrees of ♁; ♁ in 19 degrees of ♄; and the ☽ in 10 degrees of ♀, posited in the second house; ab * of ♀, ad ♁ of ♁:—Thus stand the Face of the Heavens at this Ingress.

In the first place, I observe the planet *Mars* hastening to a Zodiacal ☐ Aspect of *Saturn*, from cardinal and tropical signs; *Mars* in his own dignities, and *Saturn* in the dignities of the *Moon*.—Here appears to be much murmuring and repining amongst all ranks of people; some of the positions of the planets are for Peace, while others imply War and Bloodshed; thus are the Nations of the Earth divided. The position of the two grand superiors, *Saturn* and *Jupiter*, are not circumstanced to give much Peace to *Ireland*, though they are in a Sextile Aspect to each other; these planets, in their passage through the Zodiac, have had some effect over the ruling passions of mankind; for by their Trine and Sextile Aspects, first one

one and then another have withdrawn themselves from the scenes of blood and slaughter, and have made peace with *France*; yet other configurations (as second causes under God) of malevolent Planets, have had different effects on others, so that the war, even to this time of my writing, is prosecuted with great vigour on the part of *Great Britain*; but even she has more than once made an attempt to negotiate a Peace. In taking a view of this Ingress, I find that in *Holland, France, Germany, Italy, Spain, &c.* there will be great divisions, discontents, and murmurings, by reason of great loss of trade, and other afflictions; the flames of which will perhaps reach *America*, but that people will act with great caution and prudence. The poverty of the people of *France* occasions them to make many and grievous complaints against their rulers, which will be the occasion of great contentions, insurrections, and animosities.

THE SPRING QUARTER,

Or, *The Sun's Transit through ♃, 8, II.*

THIS Quarter takes its beginning on the 20th of *March*, at 17 minutes past 2 in the afternoon, at which time 7 degrees of 8 are on the meridian, while 21 degrees of Ω ascend in the east; the Δ ad * ζ , Δ of Υ et δ . In considering the configurations of the Planets at this Ingress, I find they imply many calamities to mankind, as commotions, wars, seditions, and subversions of Kingdoms and States; with treasons, treacheries, &c. The places where the grand scene of affairs may be expected, are *Italy, France, Germany, Russia, Portugal, Spain,* and other places nearer home; and indeed most of the European Powers seem to be concerned in one shape or other in the superlative actions of these times. The evil spirit of *France* is still at work, in contriving and carrying on some designs against our liberties, land, and nation; — a strange spirit of discord appears amongst mankind, — but *Great-Britain* will keep her ground amidst this din of war and ruin. If the *French* attempt to invade us, they will assuredly suffer for their rashness, even to a total defeat, with great loss of men and ships.

THE SUMMER QUARTER,

Or, *The Sun's Transit through* ♄, ♁, ♃.

THIS Quarter begins the 21st day of *June*, at 3 min. past 12 at noon, when the beginning of ♄ is on the M. C. and the beginning of ♁ will be on the eastern angle; the ♃ ab ♄, ♀ et ♁, ♃, ♃, et the ☉. The ☉ of ♃ and ♄ in ♄, on the M. C. is most to be noted, as it is a conjunction of great import, and signifies very eminent and active doings amongst mankind; it principally respects *Europe*, and shows most eminent actions to be carried on with great resolution and celerity. The *Russians* exert themselves with great valour and prudence; the *French Republic* appears formidable; *Holland* and *Prussia* under great desertions and disturbance. The *City of Constantinople* is concerned in the male influences of this rugged Aspect: It denotes raging distempers, fevers, and unusual fires, and fiery appearances in the air; and sometimes tempestuous weather and inundations.

THE AUTUMNAL QUARTER,

Or, *The Sun's Transit through* ♁, ♃, ♄.

THIS Quarter begins *September 23*, at 49 minutes past 1 in the morning, when 29 degrees of ♃ are on the M. C. and 16 degrees of ♁ ascend in the east; the ♃ ab ♄ ♃ et ♁ ♀, ad * ♃ et ♄. I cannot sing Peace, or say our *quietus est* is yet signed, for our enemies are many. This year will be productive of great accidents and vicissitudes, in several parts of *Europe*; various and sudden mutations; but let us be content, for our condition is better than some of our neighbours; yet there are some hopes of another negociation for Peace being set about.—I wish it success. The affairs of *Italy* and *Spain* are yet in great confusion. The *Germans*, *French*, *Dutch* and *English* hope for better times. O, *Ireland*, thou also hopest for better times. God bless King GEORGE, and the whole NATION at large.

FINIS,

OLD Poor Robin.

AN ALMANACK,

COMPOSED

(According to the modern Mode of Composition)

ON

A Variety of Subjects, both Ancient and Modern;

And, for the Reader's farther Entertainment,

Part in Prose,

Part in Verse;

Part Narrative,

||

Part Contemplative;

Part Serious,

Part Comick;

FOR THE

Entertainment and Improvement of the human Mind,
and adapted to the meanest Capacity.

BEING

A *new* improved Edition of a very *old*
EPHEMERIS, for the Year of our Lord, 1799.

Being the One Hundred and Thirty-seventh Edition,

the third after Bissextile, or Leap Year,

And the Forty-seventh Year of the New Stile in Great-Britain.

Written by **POOR ROBIN**, Knight of the *Burnt-*
Island, and Well Wisher to the *MARRIAGE TICKS*.

Let all ranks of Readers now buy
Which as full is of wit as an egg is of yolk
A perpetual feast, that by trios and dozens
Wife maxims pours forth, to instruct all your counsels
That prating at random is no sign of wit,
And that fools oft thought wise are, when silent they sit,
But as this seldom happens, it therefore is said,
That a still pair of chops make a wise logger-head.

L O N D O N :

Printed for the Company of STATIONERS,
And sold by GEORGE GREENHILL, Treasurer to the COMPANY,
at their HALL, in LUDGATE STREET.
Price Sixteen-Pence, stitched.

Chronological Account of Remarkable Occurrences.

	Years since	5902
T HE Creation of the World	-	5902
The general Deluge, or <i>Noah's Flood</i>	-	4149
The Birth of <i>Abraham</i>	-	3803
The Foundation of <i>Solomon's Temple</i>	-	2807
The Babylonish Captivity	-	2504
The Birth of our Blessed Lord and Saviour <i>Jesus Christ</i>	-	1798
His Passion and glorious Resurrection	-	1765
The beginning of the Ten Persecutions, by <i>Nero</i>	-	1726
The Tower of <i>LONDON</i> built	-	1227
<i>Cambridge</i> made an Univerfity	-	1153
<i>Oxford</i> made an Univerfity	-	927
<i>William Duke of Normandy</i> conquered <i>England</i>	-	732
The Invention of Guns	-	420
The Art of Printing firft invented at <i>Haerlem</i>	-	368
A great Plague in <i>London</i> , whereof died 30,578	-	196
The horrid Gunpowder Treafon	-	193
The Holy Bible new translated	-	191
Plague in <i>London</i> , of which, and other Difeafes died 54,266	-	173
<i>New England</i> planted	-	168
King <i>Charles I.</i> beheaded	-	150
King <i>Charles II.</i> restored	-	138
Another Plague in <i>London</i> , whereof, &c. died nearly 100,000	-	133
13,200 Houfes burnt in <i>London</i>	-	132
A great Comet appeared in <i>Decembar</i> and <i>January</i>	-	117
The great 13 Weeks Frost	-	114
King <i>William III.</i> and Queen <i>Mary</i> crowned <i>April 11</i>	-	109
<i>England</i> and <i>Scotland</i> united	-	93
<i>St. Paul's</i> in <i>London</i> finished	-	91
Queen <i>Anne</i> died <i>Auguft 1</i> ; and King <i>George I.</i> began	-	84
<i>Prefon</i> Rebellion	-	83
King <i>George I.</i> died <i>June 11</i> ; and King <i>George II.</i> procl. <i>16 June</i>	-	71
A fplendid Comet, feen from <i>Dec. 23</i> to <i>Feb. 2c.</i>	-	55
A Rebellion, when the Rebels came fo far as <i>Derby</i>	-	53
The Date and Calendar altered	-	46
The Militia A&T. paffed	-	40
King <i>George II.</i> died <i>Oct. 25</i> ; and King <i>George III.</i> began	-	38
King <i>George III.</i> and Queen <i>Charlotte</i> crowned <i>Sept. 22</i>	-	37
Peace with <i>France</i> and <i>Spain</i>	-	34
The Swedes forced to refign their Liberties to the King	-	26
War commenced againft <i>North America</i>	-	23
The Americans declare themfelves Independent States	-	22
The French figned the firft Treaty with the American States	-	20
War againft <i>France</i> commenced	-	20
War began againft <i>Spain</i>	-	19
War againft <i>Holland</i> commenced	-	18
A general Peace	-	15

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P R E F A C E.

Let all who'd in Poor Robin look,
Be sure to, firstly, buy his Book.

THE tradesman that deals for ready money only, if he could but find customers, would carry on the surest and best business; for it is well known, that those who most want trust, are the least fit to be trusted. No religion is like ready money, said the canter to his brother hypocrite. Promises and spice-cakes were made to be broken, and the general practice of the world proves the truth of the proverb: those that are the readiest at promising, are commonly the slowest in performing; but smooth words butter no parsneps; yet a good word, like a pill, is soon given, but it is the effect that stamps the virtue; and what virtue can that have, which has no meaning? And this is too often the case with all debtors. They will not stay for what they want 'till they can pay for it; nay, the mischief is, for the most part, that they will not stay for what they do not want 'till they can get money to pay for it. The necessaries, nay, the comforts of life, are almost in every one's power to come by, either for love, or money. And, God be thanked, the effect of christianity is not yet so ceased in this land, but that the poor and needy still may find benefactors. But it is unreasonable desires, wishes for what is unnecessary, they want to be fine, they want to be idle, all want to be gentlefolks, and to have what they neither really need, nor know how to make proper use of. In short they want content, which is what they will never find by running into debt. People are so perverse and self-willed, that there is no pleasing them; they act as if they were resolved to seek, what, they know, is impossible to be found. Even at the playhouse they are told, 'He is not poor who hath not much, but he that would have more; want lies in wishing; he lacks most, that longs most; none so rich as he that doth not covet, but contemn.' This, I say, they are told at the play, yet take no more notice of it, than if it were in one of the sermons preached at church on Sundays. They know all this to be wise, true, and fit to be practised, and, therefore, go and do the contrary. The young run wild and mad, in spite of the advice of the wise and aged; follow their own stubborn, perverse humours, that lead them, at last, to misery and ruin. Hence it is, that faith and truth are become scarce, rare things, and that ten men may be found, that deserve to be hanged for one that ought to be trusted. This brings to my mind a late occurrence: calling upon an acquaintance, who was a carver of grave-stones, he told me, he was cutting one for a late friend of mine, whose ancestors lived in the neighbourhood of my favourite town of Saffron-Walden, in Essex, and, as I knew him to be a very punctual, honest man, I took up my pen and ink, and wrote the following lines:

At the dread judgment day, it will appear,
No quippo-hypocrite lies buried here:
But one, whose life was one continued plan,
To prove himself an upright, honest man.

And which I meant to be placed upon the stone, by way of epitaph, but was told, that room could not possibly be found for it. The cutter had

P R E F A C E.

to keep the lines, and he may keep them long enough, before he has a stone cut for another whom they will fit. These epitaphs are now become so common, and applied by illiterate carvers so improperly, as to be taken less notice of than the following one:

Under this stone poor Humphrey lies,
There's nobody laughs, and nobody cries;
And where he's gone, or how he fares,
There's nobody knows, and nobody cares.

The rich may have any thing in the world cut upon the stones for money, without the least regard to truth and common sense; and it is a known fact, that they actually are generally so cut without regard to either. As to the poor, who will cut for them, except it be here or there one, that has a son or daughter afterwards from indigence raised to affluence, who have a mind to have one cut, to inform the world, that they once had a father and mother, who were born, and died. Sometimes, though but very seldom, an inscription, truly characteristical of the deceased person, is found: such was the following, upon an old maid, which I met with, in a country church-yard, many years ago:

Let none despise my single life,
A maid's oft happier than a wife;
And while she shuns the snares of love,
May turn her thoughts to things above.

But, to return, a worthy, honest man is above all praise; the actions of his life are his best encomium. He needs no other; and the only passable excuse for giving him any, is only to make his virtues as more known, so more imitable to others, and thereby promote the spreading of honesty in the world, which has need enough of it. There has been no good doings, says Hodge, since the pudding was put out of it's place; it used to be eaten first, and it is now put off 'till the last; it was the custom to get money first, to buy good cheer, and then to eat, be thankful, and work for more: but now the fashion is, to eat the meat first, and forget to pay for it, 'till reminded by plaguey things, called bills, and then to have not only the meat, but the bill to pay for: tradesmen cannot afford to trust for nothing, you therefore must pay for y^r trust, as credit is a dear commodity, and they keep books to refresh their memory, and to refocillate yours; if bills will not do, they send bumbailiffs, which are more chargeable than bills, and far more rude and troublesome. Sometimes they charge you only ten per cent. for billing, but fifty per cent. is cheap for bumbailiffing; as to your being willing to pay, that is out of the question, they will oblige you to it, whether you will or not; and as to being able, the less able you are, the more you will be forced to pay, and if they find you will be ruined, the less mercy will they shew you, for none court the future custom of a ruined man. Where there are hopes of future gain, there is some fear of loss; but none fear the loss of a customer that is not worth having. B. lives like a nobleman, said M. whilst he stopped his guts with dainties, kept him up all night, filled his boots with punch, and gave him a good large order for furniture in the morning. But when the time came to pay for the furniture, B. had no money, it was all spent in rioting and drunkenness, and M. could not trust, having loud calling creditors of his own; one could not pay, and the other could not trust. So B.'s nobility

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bility was soon at an end, and M. was forced to set the bailiffs on him, to keep them from his own door. This is no uncommon case; there are still, though these be both dead gone, many B.s and M.s remaining, in similar circumstances. If people will mind nothing but eating and drinking, and gadding about, they will make poor pitiful faces when pay-day comes, and they find themselves penny-less. Sir Penurious Muckworm will either have their estates on mortgage, if any are left, or the goaler their carcases. If you will not take care and think in time, you will be made to feel when it is too late. Cold, poverty, and nakedness, have often withered the hand that has been used to be filled with dainties. To have known good days, as it is called, is only a misery when they are over. And over they soon will be to all that take no care to prolong them. These sentences have much the air of proverbs: be that as it may, they are important truths, which the fool that despises, must do it to his own ruin. Mind, therefore, before it is too late, for it will be in vain to attempt to take care afterwards. When the day of affliction, poverty, weakness, and sickness comes, nothing is to be expected but to go to the bourne from which no traveller returns. These are serious truths, which, whoever slight or neglects, does it to his own certain jeopardy, and full often to his irretrievable undoing.

Incipe vivendi rectè qui prorogat horam,
Rusticus expectat dum defluat amnis: at ille
Labitur et labetur in omne volubilis ærum.

HOR.

He that defers to mend from day to day,
Doth on a river's brink expecting stay;
Till that vast stream, that stop'd him, shall be gone;
Which runneth; and for ever will run on.

Many people, said an old friend of mine, know how to get money, but they earn it like horses, and spend it like asses; there is but here and there one, that knows how to save it. The belly and the back claim all, but 'tis said, that the belly is the greater thief.

There is a golden mean, but it

Lies in a road, that's hard to hit.

If a man however pays every one their due, and has something to spare, he cannot be far from this golden *desideratum*. For as to the opinion of the world, let a man do what is right and fit according to the best of his knowledge and ability; that is enough: he ought to be the best judge in his own affairs. And it were folly in the extreme to attempt to please every body. Which matter I have with my wonted sagacity, some years since, illustrated by the ancient fable of the old man, his son, and the ass. Let a man strive to gain the approbation of his own conscience, for it is in his own breast that he must seek for happiness: he has there a witness that cannot be suborned, a true and faithful monitor, ever watchful to warn him of danger, and to direct him into the paths of peace, without which happiness is but a dream, the delusion of children, and the paradise of fools. Harm watch, harm catch, says the old adage, intimating the danger of nursing evil designs, which if they break out into action, raise a flame, whose consequences frequently burn up the designer. These must therefore

P R E F A C E.

be guarded against by every one that wishes to have peace within. But of all the foes to a comfortable life, none is more necessary to be guarded against than idleness, because it puts on the garb of a friend, and under mask of ease, rest, and quiet, which are desirable things, brings on sloth and dishonesty, which are very bad ones. If industry does not employ the hands, idleness will corrupt the heart. The idle man is a blank in the creation, men were made to be industrious, and do good; and the idle woman is a blank in her own family, and the plague of all the families round her, tattling and carrying about idle stories, to the disparagement and disturbance of the whole neighbourhood. Thus provoking people to bid her mind her own business, this indeed she does without bidding, for her business is to hinder every body else. Idleness, in man, is the first step to the gallows; and, in woman, it is the first step to the devil. Therefore mind your wheels, your needles, and your thimbles, Ladies, not because you want bread, but because you wish to be kept out of the bottomless pit. Yet let not the matter be mistaken, by being idle is not altogether meant that people do nothing, for it is said, that idle folks take the most pains; but it means that they will do what they ought not, and what they are bound in duty to do, that they are resolved to leave undone: which is truly to be idle in the proper sense of the word. These are worse than lazy drones, like poor old Nanny, who lived in a parish, that to employ the poor, found them flax to spin at the public expence. Nanny, however, thought spinning harder work than begging, and went to ask an alms frequently of the gentlewoman at the parsonage-house, who took an opportunity of representing to her, that if she would be industrious and spin, she might go on more comfortably, and earn a little money. Ah! madam, replies Nanny, there are many a three-thread in a pound of seven-penny tow. Nanny was offered the use of a cow, but was too lazy to milk her, nor could the alumnation of her husband laid on with a heavy hand compel her to it, she was indeed a drone, and had the reward of one, a hungry belly, and sore bones: but it is not such as Nanny that I am here speaking of. She was quiet and harmless, and an object of pity, having a cross and drunken husband, that disheartened and cow'd her. It is those that are mischievously idle, and purposely vixin, that I am here speaking of, who deserve to want meat, worse far than poor Nanny. But I have no room for more about this.

It grieves me at the heart to think of the story I lately heard of a poor washerwoman, who by hard labour, and frugal honesty, had saved about the sum of eight pounds; which, in hopes to get a few shillings a year for it, she took it to a topping looking tradesman in the town, who said it was an odd sum of money, could she not make it up ten; she said she was a poor woman, and had no more: cannot you borrow so much, said he? The woman went, borrowed, and made up the sum of ten pounds, which he took, though at the very time he knew in his own breast, that he was a bankrupt. And the poor woman lost the money. As this is the greatest villain that I have chronicled this year, I shall here end my preface with him, having run it nearly to the length of my tether.

TABLE to calculate Wages.

per Year. l.	per Month.			per Week.				per Day.		
	l.	s.	d.	l.	s.	d.	f.	s.	d.	f.
1	0	1	8	0	0	4	2	0	0	3
2	0	3	4	0	0	9	1	0	1	1
3	0	5	0	0	1	1	3	0	2	0
4	0	6	8	0	1	6	2	0	2	3
5	0	8	4	0	1	11	0	3	3	1
6	0	10	0	0	2	3	2	0	4	0
7	0	11	8	0	2	8	1	0	4	2
8	0	13	4	0	3	0	3	0	5	1
9	0	15	0	0	3	5	2	0	6	0
10	0	16	8	0	3	10	0	0	6	2
11	0	18	4	0	4	3	3	0	7	1
12	1	0	0	0	4	7	1	0	8	0
13	1	1	8	0	4	11	3	0	8	2
14	1	3	4	0	5	4	1	0	9	1
15	1	5	0	0	5	9	0	0	9	3
16	1	6	8	0	6	1	3	0	10	2
17	1	8	4	0	6	6	1	0	11	1
18	1	10	0	0	6	10	3	0	11	3
19	1	11	8	0	7	3	2	1	0	2
20	1	13	4	0	7	8	0	1	1	1
30	2	10	0	0	11	6	0	1	7	3
40	3	6	8	0	15	4	0	2	2	1
50	4	3	4	0	19	2	1	2	9	0
60	5	0	0	1	3	0	1	3	3	2
70	5	16	8	1	6	10	1	3	10	0
80	6	13	4	1	10	8	1	4	4	2
90	7	10	0	1	14	6	1	4	11	2
100	8	6	8	1	18	4	2	5	5	3

The months above are calculated at twelve in the year. If the yearly wages be guineas instead of pounds, for every guinea add one penny for each month, or one farthing to each week.

JANUARY hath xxxi Days.

M
D Decl.
South.

New Moon	6	} Day at	} 4 ho. 14m. Morn. 3 58 Morn. 5 41 Aft. 10 50 Morn.	1	22° 59'
First Quarter	14			6	22 28
Full Moon	21			11	21 45
Last Quarter	28			16	20 52
☉ enters ♍ 19th day, at 11 h. 8 m. Afternoon.				21	19 50
				26	18 37
1	21	Tu	Circumcision	Hot weather, neither young nor old	
2	22	W		Expect this month, but frost and cold.	
3	23	Th		With mist, the frozen trees are seen	
4	24	F		Array'd, in white instead of green;	
5	25	S	Old Christmas Day	If not preserv'd by falling snow.	
6	26	F	Epiphany. Tw. Day	The Rustic takes his cord and prong,	
7	27	M	Plow Monday	Round him the hungry cattle throng,	
8	28	Tu	Lucian	In vain he stops mid snow or sleet,	
9	29	W		To clap his arms, stamp with his feet	
10	30	Th		That are benumb'd with cold and ache,	
11	31	F		He must some other method take :	
12	Jan. 1	S	Old stile year beg.	Must look his enemy in face,	
13	2	F	1st Sun. aft. Epiph.	And mind his work and mend his pace;	
14	3	M	Oxford T. begins.	Hilary. Camb. Term begins	
15	4	Tu		Must not stand hurtling, but be bold,	
16	5	W		How childish to cry out 'tis cold!	
17	6	Th	Old Twelfth Day	Man learn this lesson and be wise,	
18	7	F	Q. Char. birth d. k.	Keep thy feet warm with exercise,	
19	8	S		Prisca.	
20	9	F	Septuagesima Sun.	Fabian.	
21	10	M	In 8 days of St.	Hil. 1 return. Agnes.	
22	11	Tu	Vincent	If walking will not do it, run,	
23	12	W	Hilary Term begins	Thy work will pleasant be when done,	
24	13	Th		Or if you labor in the barn,	
25	14	F	Conv. of St. Paul	Of being idle I you warn :	
26	15	S		For idleness to young and old,	
27	16	F	Sexagesima Sunday	Is a worse foe than frost and cold.	
28	17	M	In 15 days of St.	Pr. Augustus Frederick born	
29	18	Tu		Hilary, 2 return.	
30	19	W	K. Charles I. mart.		
31	20	Th	Days inc. 1 h. 21 m.		

Observations in JANUARY.

M	Clock
D	bef. Sun.

He must be young indeed that need be told,
That January's mostly very cold;
And that warm meat and drink, and a good fire,
Are what for comfort young and old require.

1	4	7 ¹¹
6	6	24
11	8	29
16	10	19
21	11	50
26	13	2

M	☉	☽	☽
D	rises & sets	rises & sets	A.

1	VIII III	2 m 40	25
2	4	56	4 3 26
3	3	57	5 28 27
4	3	58	6 48 28
5	2	58	7 55 29
6	I	59	D sets, N
7	VII IV	5 a	8 1
8	59	1	6 20 2
9	58	2	7 35 3
10	57	3	8 46 4
11	56	4	9 56 5
12	55	5	11 5 6
13	54	6	morn.
14	52	8	0 12 8
15	51	9	1 23 9
16	50	10	2 35 10
17	49	11	3 50 11
18	47	13	5 3 12
19	46	14	6 16 13
20	45	15	7 17 14
21	43	16	D rises F
22	42	18	5 a 5 16
23	40	20	6 32 17
24	39	21	8 3 18
25	37	23	9 28 19
26	36	24	10 53 20
27	34	26	morn. 21
28	33	27	0 19 22
29	31	29	1 43 23
30	29	31	3 8 24
31	28	32	4 26 25

**The Old
ame Knight**
his bones to
rest who
laid,
In the year
eighty,
peace be to
his shade;
Who wrote
this Alma-
nack for
many years,
As from the
phrasology
appears.
For he was
of concep-
tion very
slow,
His head did
not with
wisdom
overflow;
And tho'
to wit he
made no
small pre-
tence,
Like me
was not
much over
done with
sense.

The beautiful planet *Venus* will be an evening star all this spring and summer, when the signs of her influence, I mean, her two horns, may be seen by every cuckold in the kingdom, who is blessed with his eye sight, and can procure a telescope, except he be wilfully blind, that is, will not see, or is ashamed to see, what is ashamed to be seen, but gold dust is a strange thing for making folks wilfully blind to their own shame, and 'tis a shame that they should be so blinded.

The planet will continue an evening star 'till the 16th day of October, which is a confounded long while, mind, for cuckoldom to ride triumphant. And from that time she will be a morning star the rest of the year.

Jupiter will be evening star 'till the 3th day of May, and then a morning star till the 18th of December, after that an evening star again 'till the year's end.

Now as to these planetary influences, what pity it is that the world should be so old, and yet know no better, than to take the dark fables of heathenism for realities, fooled on by a dubiously denominated old class of mortals, who call themselves Astrologers, which word must therefore bear the signification of stupid asses!

FEBRUARY hath xxviii Days.

				M	D	Decl.	
New Moon	4	} Day at	} 8 ho. 14 m. Aft.	1	17	0	
First Quarter	13			0	44	Morn.	6 15 30
Full Moon	20			5	3	Morn.	11 13 54
Last Quarter	26			8	22	Aft.	16 12 12
☉ enters ♋ 18 day, at 1 ho. 50 min. Aft.				21	10	26	
				26	8	35	

N.	O.	W.	Sundays and Holidays.	Choice Observations, Maxims and Tales.
S.	S.	D.		
1	21	F		This month to ask many I find in cline,
2	22	S	Purification B.V.M.	
3	23	F	Quinquagesima Su.	Blas. Bp.
4	24	M	On mor. of Purif.	3 return.
5	25	Tu	Shrove Tu. Agatha	The meaning of the day call'd Valen-
6	26	W	Ash Wednesday	tine;
7	27	Th		When every green-horn'd lad, and foolish lass,
8	28	F	In 8 days of Purif.	4 return
9	29	S	1st Sund. in Lent	Who no more know the meaning than my <i>ase</i> ,
10	30	F		
11	31	M		
12	Feb.	Tu	Hilary Term ends	Camb. Term div. m.
13	2	W	Em. week. Old Can.	Are sending slips of paper they call so, And in this name children a begging go.
14	3	Th	Valentine	A Bishop was the man so call'd, I'm told,
15	4	F		That virtue, as all bishops should, than gold,
16	5	S		
17	6	F	2 Sunday in Lent	Lov'd more, and was thereof himself the sample,
18	7	M		Hoping to others lead by the example, Chose yearly on this day a kind of mate,
19	8	Tu		
20	9	W		
21	10	Th		
22	11	F		That was in goodness him to imitate, Thro' the whole year, and then chuse
23	12	S		
24	13	F	3 Sunday in Lent	St. Matthias. Pr. Adol. Fr. B.
25	14	M		out another,
26	15	Tu		That might in grace and goodness prove his brother,
27	16	W		And the next year another might suc- ceed,
28	17	Th		Hoping in time so to increase the breed,

Observations in FEBRUARY.

In February, tho' the days be longer,
It's often said, the cold is still the stronger;
Therefore warm meat and drink when used in reason,
Are good, and quite appropriate to the season.

M	Clocks	
D	bef. Sun.	
1	14	2
6	14	30
11	14	38
16	14	26
21	13	35
26	13	9

M	Orises	D rises	D	Sorry saints	Prose, such as is to be found no
D	and sets	and sets	A.	& sadfinners.	where else.
1	VII	IV	5 m 37	26	<p>I have very compactly and right wisely filled up my last month with the noble science of Astrology, or the language of the stars, according to Astrologers. Which, however it may be for noble, is certainly very ancient. It is long enough since mankind first learned to be fools, which is a piece of knowledge they don't seem going to forget in haste. Witness the number of astrological Almanacks sold every year. Notwithstanding, I and my predecessors in this little book, called Poor Robin, have for these One hundred and thirty-seven years laboured to undeceive them, by all the loving and cogent arguments that we could devise, both in jest and earnest, they still go on, and will go on, enquiring what weather we shall have?</p> <p>I once called, out of curiosity, to see one of the most famous of these prognosticators, and his wife told him that she was a better foreteller of the weather than he was, and had signs to do it by which never failed her. I told her that it was no wonder that her husband was so famous an Almanack-maker, since he had such a never failing guide to help him. What a blessing and benefit it must be to have such a clever wife! Mine when I am studying, is good for nothing</p>
2	24	36	6 36	27	
3	23	37	7 26	28	
4	21	39	(sets	N	
5	19	41	5 a 12	1	
6	17	43	6 24	2	
7	15	45	7 36	3	
8	14	46	8 46	4	
9	12	48	9 53	5	
10	10	50	11 3	6	
11	8	52	morn.	7	
12	6	54	0 13	8	
13	4	56	1 26	9	
14	3	57	2 40	10	
15	1	59	3 51	11	
16	VI	V	4 55	12	
17	57	3	5 53	13	
18	55	5	6 36	14	
19	53	7	7 6	15	
20	51	9	D rises	F	
21	49	11	7 a 1	17	
22	47	13	8 31	18	
23	45	15	9 59	19	
24	43	17	11 29	20	
25	41	19	morn.	21	
26	39	21	0 56	22	
27	38	22	2 19	23	
28	36	24	3 34	24	

MARCH hath xxxi Days.

M Dec.
D South

New Moon	6	} Day	} at	1	ho.	34	m	After.
First Quarter	14			6	24	After.		
Full Moon	21			2	53	After.		
Last Quarter	28			7	34	Morn.		

1	7 ^o	27
6	5	32
11	3	35
16	1	37
21	No.	21
26	2	19

☉ enters ♉ 20th day, at 2 ho. 17 m. After.

1	18	F	David	Of virtue's friends. Alas! the hope
2	19	S	Chad.	how lame,
3	20	F	4 Sunday in Lent	Mid-Lent Sunday.
4	21	M		Nothing of this is left now but the
5	22	Tu		name.
6	23	W		March is the month when hunting
7	24	Th	Perpetua	ends,
8	25	F		Glad tidings to my country friends,
9	26	S		Freed from the madness of the chase,
10	27	F	5 Sunday in Lent	Where lords and knights and gamblers
11	28	M		base,
12	Mar.	Tu	Gregory m.	With whores and boors and rustics rude.
13	2	W		Make a sweet motley multitude
14	3	Th		Of stupid brutes with horrid din,
15	4	F	Cambridge T. ends	By galloping through thick and thin,
16	5	S	Oxford Term ends	Splash deep into the yielding soil,
17	6	F	6 Sunday in Lent	Tear up the wheat, the turnips spoil;
18	7	M	Edw. K. West Sax.	The gates they break, or open leave,
19	8	Tu		Mindless who mischief may receive,
20	9	W		Palm Sunday. St. Patrick
21	10	Th	Benedict. Mau. Th.	While idle foot-folks who attend them,
22	11	F	Good Friday	The fences break, but will not mend
23	12	S		them.
24	13	F	Easter Day	Not with design all this, the pox is,
25	14	M	Ann. of V. Mary.	To rid the country round of foxes;
26	15	Tu	Easter Tuesday	And thus free from their depredation;
27	16	W		Poultry and lambs throughout the na-
28	17	Th		tion,
29	18	F		But only that these fots may ride,
30	19	S		Heedless whatever ills betide.
31	20	F	1 S. after Easter	One lately sent, secured in boxes,
				His friend a waggon load of foxes;
				Who took and turn'd them up with joy,
				That they might breed and multiply;
				Low Sunday.

Observations in MARCH.

This Month bright Sol the equinoctial crosses,
 When seldom over full of bloom the gofs is,
 Yet lads and lasses think a little kissing,
 Harmless and modest, there's not much amifs in.

M	Clocks
D	bef. Sun.
1	12' 35"
6	11 29
11	10 12
16	8 47
21	7 17
26	5 44

1	VI	V	4m 36	25	It the cor-	but to put me out, and plague me
2	32	28	5	24	recting	with her yelp and clatter. O plague,
3	30	30	5	56	chronicle	replies her husband, mine has
4	28	32	6	21	then was,	enough of that, and as to her help
5	26	34	6	40	Of every	and knowledge that you are dream-
6	24	36	(sets N		pretending	ing about, it is not in her head,
7	22	38	6 a 36	1	dunce and	but the other extremity of her
8	20	40	7	46	afs.	body, her toes, which, being full
9	18	42	8	54	Of every	of corns, springe against bad
10	16	44	10	5	prognosti-	weather. But as it is only a few
11	14	46	11	18	cator round,	days before, can be of no manner
12	12	48	morn.		And would	of use to me, who want to know
13	10	50		30	be wife	above a year before hand, that I
14	8	52	1	42	astrologer	may put it into the copy of Moore's
15	6	54	2	57	profound.	Almanack. Nay, they do me hurt
16	4	56	3	48	Of every	instead of good, for she makes
17	2	58	4	34	ignorant	such a noise, when they put forth
18	V	VI	5	10	justice,	their twangs, that she disturbs me
19	58	2	5	35	pimp, and	of my rest for nights together. So
20	56	4	5	56	procter,	I found I must be silent about his
21	54	6	6	14	Each petti-	wife's signs, which only hindered
22	52	8	7 a	33	fogging	him from dreaming about his own
23	50	10	9	6	lawyer,	prognostications, and spoil'd the
24	48	12	10	39	and quack-	benefit he used to reap from the old
25	46	14	morn.	19	doctor.	torn book of Nostradamus's French
26	44	16		8	Husbands	Prophecies, the oracle of all the
27	42	18	1	30	in public,	conjurers in France and England,
28	40	20	2	38	known to	for centuries back, foretelling
29	38	22	3	31	go astray,	things that never did, or can come
30	36	24	4	9	And wives	to pass, to the great edification of
31	34	26	4	35	that false,	both countries.
					were in the	
					face of day.	

APRIL hath xxx Days.

		M	D	Decl.	North				
New Moon	5	} Day	{	7 ho. 21 m.	Morn.	1	4	39	
First Quarter	13			7	47	Morn.	6	6	33
Full Moon	19			11	40	Night.	11	8	25
Last Quarter	26			8	30	Night.	16	10	13
☉ enters 8 20th Day, at 2 ho. 56 min. Morn.				21	11	57			
	26	13	36						
1	21	M	All Fools day	And it might thus be understood, How he promotes the public good.					
2	22	Tu							
3	23	W	Oxf. & Ca. T. be.	Rich. Bishop of Chichester.					
4	24	Th	Ambrose	And now observe these certain rules, Of knowing who are April fools;					
5	25	F		She who in sun-shine hangs her cloaths To dry; and then a camping goes, And stays till they're so drench'd with Easter, 1 return.					
6	26	S		rain,					
7	27	F	2 Sun. after Easter						
8	28	M	In 15 days after						
9	29	Tu							
10	30	W	Easter Term begins	She's forc'd to starch them o'er again.					
11	31	Th		He, who's to mind the business knows, Of others, and neglect his own.					
12	Apr.	F		She that encourages his view, Who has to others proved untrue.					
13	2	S		Ah! trust not then poor simple maid, Easter, 2 returns.					
14	3	F	3 Sunday aft. Easter						
15	4	M	In 3 weeks after						
16	5	Tu		The man that others has betray'd; Perfidiousness all maids must rue, And what security have you? What he tells you, he's said and sworn, Was sacred truth to twenty more; Presume not then that you're more wise,					
17	6	W							
18	7	Th							
19	8	F	Alphege						
20	9	S							
21	10	F	4 Sun. aft. Easter						
22	11	M	In one month after	Easter, 3 returns.					
23	12	Tu	St. George	Than thus to be misled by lyes; The self-opinionated maid,					
24	13	W							
25	14	Th	St. Mark. Princess Mary born						
26	15	F		Thereby's the easier betray'd; While she, whose judgment's ripe and cool, Is not soon made an April fool.					
27	16	S							
28	17	F	5 Sun. aft. Easter	Rogation Sunday.					
29	18	M	In 5 weeks after	Easter, 4 returns.					
30	19	Tu							

Observations in APRIL.

M	Clocks
D	bef. Sun.

'Tis April, and the feather'd tribes among
 All is festivity and love and song;
 And among men, without meat, drink and kissing,
 Contentment, love and harmony are missing.

1	3	53
6	2	23
11	0	59
16	Af.	18
21	1	26
26	2	23

1	V	VI	4	m	5	6	26
2	30	30	5	11	27		
3	28	32	5	23	28		
4	26	34	5	35	29		
5	24	36	sets	N			
6	22	38	8	a	0	1	
7	20	40	9	12	2		
8	18	42	10	28	3		
9	17	43	11	42	4		
10	15	45	morn.	5			
11	13	47		50	6		
12	11	49	1	51	7		
13	9	51	2	40	8		
14	7	53	3	18	9		
15	5	55	3	44	10		
16	3	57	4	7	11		
17	1	59	4	26	12		
18	IV	VII	4	41	13		
19	57	3	rises	F			
20	56	4	8	a	10	15	
21	54	6	9	46	16		
22	52	8	11	14	17		
23	50	10	morn.	18			
24	48	12		32	19		
25	46	14	1	34	20		
26	45	15	2	17	21		
27	43	17	2	47	22		
28	41	19	3	9	23		
29	39	21	3	25	24		
30	37	23	3	38	25		

But now, on all fool's-day, it is proper for me to remember my friends and correspondents, with whom I am terribly in arrears, having now by me a letter I find dated so far back as the 2nd of May, 1796. Which is a terrible while, I must own, to keep people in suspense; I don't like to be serv'd so myself, and if the gentleman should die for hunger, thro' my neglect in not advertising his trade, what a sad thing it will be. Tho' he that trusts to Poor Robin for a maintenance, I fear will have a pair of thin lantern jaws of his own, enough to fright all the bulls and bears out of Hinckley Market place. For that is the town from which the letter is dated, and the reason that it has not appeared sooner, is, because I thought I had confounded nonsense enough of my own to fill my book with: or at least could find enough in the neighbourhood of Saffron Walden. And I believe upon the whole, I was not much mistaken in that respect. But because the letter has much merit, in short, and without more ceremony, I shall introduce it, (I hope better late than never) into this profound and confoundedly clever work, called Poor Robin's Almanack. And thus do it the greatest honour that any work can receive, and raise it to the greatest distinction possible to be acquired in this nation.

May hath xxxi Days.

M Decl.
D North.

New Moon	4	} Day at {	0	ho.	14	m.	Morn.	1	15 ²	9
First Quarter	11		5		9		After.	6	16	36
Full Moon	19		7		5		Morn.	11	17	57
Last Quarter	26		11		5		Morn.	16	19	10
								21	20	14
								26	21	11

☉ enters 11 21st Day, at 3 ho. 25. m. Morn.

1	20	W	St. Phil. & St. Ja	Now comes the smiling genial month
2	21	Th	Ascension day, or	Holy Thursday.
3	22	F	Inven. of the Cross	On morrow of Asc. 5 returns.
4	23	S		of May,
5	24	F	Sun. after Ascen.	That often call'd is Nature's holiday;
6	25	M	Easter Term ends	J. Evang. ante Port. Lat.
7	26	Tu		When all is glad festivity and song,
8	27	W		The welcome music of the feather'd
9	28	Th	Oxford Term ends	throng,
10	29	F		Proclaims their love, and makes the
11	30	S		vallies ring,
12	May 1	F	Whit Sun. O.Ma.d.	With courtship, daughter of the genial
13	2	M	Whit Monday	spring;
14	3	Tu	Whit Tuesday.	Morning and eve all strive to shew
15	4	W	Ember Week	their loves,
16	5	Th		How sing the nightingales, how coo
17	6	F		the doves;
18	7	S	Prs. Wales b.	The opening buds disclose a beauteous
19	8	F	Trinity Sunday	bloom,
20	9	M		Which fann'd by gentle zephyrs, sheds
21	10	Tu		perfume;
22	11	W	Prs. Elizab. b. Oxf.	Qu. Charl. b. Cam. T. d. m.
23	12	Th	[Term begins	On mor. of H. T. 1 re. (Dun.
24	13	F	Trinity Term beg.	The lambkins frisk and play their dam
25	14	S		around,
26	15	F	1 Sund. aft. Trin.	While every pasture is with plenty
27	16	M	Vene. Bede. in 8	crown'd;
28	17	Tu		Yet sometimes even yet the cold remains
29	18	W	K. Charles II. rest.	Of winter, snow and hail, or drizzling
30	19	Th		Augustine 1st Archbp. Cant.
31	20	F		days of Holy Trinity, 2 ret.
				rains;
				Driv'n by the northern chilling gale's
				annoy,
				To damp their spirits and their bliss de-
				stroy.

Observations in May.

		M	Clock
		D	aft. ☉
	Fair Flora, handmaid of the charming May,	1	3 8
	Dresses her out in robes new, sweet, and gay,	6	3 38
	In her train dance the Graces and the Loves,	11	3 55
	How sport the lamblkins, and how coo the doves!	16	3 58
	The feather'd choir in concert hail the light,	21	3 47
	And lonely plaintive Philomel the night.	26	3 22
IV	VII	3m 51	26
1	26	4	1 27
2	34	4	1 27
3	32	28	4 13 28
4	31	29	sets N
5	29	31	8 a 23
6	27	33	9 35
7	25	35	10 46
8	24	36	11 50
9	22	38	morn.
10	21	39	43
11	19	41	1 23
12	18	42	1 53
13	16	44	2 16
14	14	46	2 34
15	13	47	2 49
16	12	48	3 4
17	10	50	3 19
18	9	51	3 36
19	7	53	rises F
20	6	54	10 a 9
21	5	55	11 20
22	3	57	morn.
23	2	58	12 19
24	1	59	49 20
25	III	VIII	1 14 21
26	58	2	1 32 22
27	57	3	1 46 23
28	56	4	1 58 24
29	55	5	2 10 25
30	54	6	2 20 26
31	53	7	2 33 27

Hinckley, 2 May, 1796.

Mr. Editor of Old Poor Robin's Almanack.

SIR,

Being a young man, just out of my apprenticeship, and beginning business, my friends have wrote *the what* you will find below, which I have pasted up in my shop window—As there is some original humour in them, I think they would suit your Poor Robin's Almanack, for the which I now send you them, not doubting, you will insert the same in your next, and oblige your humble servant in the strap and razor line

DANIEL CRAMP,
Hair dresser, Hinckley,
Leicestershire.

I'm the Hinckley Barber, Bow,
Wow, Wow!

Daniel Cramp,

Shaver extraordinary to the public in general, as well as hair-dresser and perfumer to Gentlemen in particular, informs all, who are not too dull to understand, that he is—as almost every other new beginner in the strap and razor, as well as the goose and thimble profession—from London—because like them he has never been there. So he can with as good a grace say from Paris

JUNE hath xxx Days.

						M	⊙ Decl-			
						D	North.			
New Moon	3	} Day at	} 3 ho.	c m.	Aft.	1	22 ⁹ 6			
First Quarter	10					11	28	Aft.	6	22 41
Full Moon	17					4	5	Aft.	11	23 7
Last Quarter	25					3	14	Morn.	16	23 22
⊙ enters ∞ 21 day, at o ho. 3 m. Aft.						26	23 22			

1	21	S	Nicomede	
2	22	F	2d Sund. aft. Trin.	My bonny lads and honest lasses,
3	23	M	In 5 d. of H. Tr. 3 r.	The world now come to such a pass is,
4	24	Tu	K. Geo. III. b 1738	That people who delight in saving,
5	25	W	Pr. Ern. Agu. b. 1771	Boniface
6	26	Th		Maywell be struck with madnes raving;
7	27	F		May moping turn with melancholy,
8	28	S		To see extravagance and folly
9	29	F	3d Sund. aft. Trin.	Triumphant ride in gilded coaches,
10	30	M	In 3 w. of H. Tr. 4 r.	This of our nation the reproach is.
11	31	Tu	St. Barnabas	Expending thus the honest gains
12	June	W	Trinity Term ends.	Of others industry and pains,
13	2	Th		Who by hard work and prudent care,
14	3	F		Have strove to something have to spare;
15	4	S		Provide for sickness and old age,
16	5	F	4th Sund. af. Trin.	And so the ill of life assuage,
17	6	M	Alban	By placing out at interest what
18	7	Tu		They by frugality have got;
19	8	W		Led by appearances, they pitch
20	9	Th	Trans. Ed. K. W. S.	On those who seem so fine and rich
21	10	F	Longest Day	To lend it to. Full oft these fail,
22	11	S		Are bankrupts made or thrown in jail,
23	12	F	5th Sund. aft. Trin.	Ruined by pride and speculation,
24	13	M	St. John the Baptist or Midsummer Day.	Thro' discontentment with their station.
25	14	Tu		They know this world but little who
26	15	W		Judge of it by the outward show;
27	16	Th		
28	17	F		
29	18	S	St. Peter Ap. & M.	
30	19	F	6th Sund. aft. Trin.	And wise, indeed, the man be made
				Who's always sure whom he can trust.

Observations in JUNE.

Now it most opportunely comes to pass,
That June and Tune rhyme well, like pass and ass,
Hence our sage grandmothers affirm, that June
Is fam'd for putting every thing in tune.

☽ rises

M	Clocks
D	aft. ☉
1	2' 36"
6	1 46
11	0 48
16	bef. 13
21	1 17
26	2 21

1	VIII	2m.45	28
2	51	9 3	29
3	51	9 9	☽ sets
4	50	10 9	a 42
5	49	11 10	39
6	48	12 11	22
7	48	12 11	56
8	47	13	morn.
9	46	14 0	18
10	46	14 0	38
11	45	15 0	53
12	45	15 1	7
13	44	16 1	21
14	44	16 1	37
15	44	16 1	56
16	43	17 2	20
17	no real	☽ rises	F
18	night	9a	55
19	in	10	40
20	Britain	11	10
21		11	31
22		11	48
23		morn.	20
24		0	0
25	43	17 0	12
26	43	17 0	23
27	44	16 0	34
28	44	16 0	47
29	44	16 1	3
30	45	15 1	23

—once the seat of elegance, fashion,
he them, as frippery, and dissipation, but lately
of rebellion, bloodshed, anarchy, and
confusion; —acquaints them—
that he has fitted up his shop, and
laid in such an assortment of washes,
pomatums, têtes, toupees, pigtails,
and curls, as cannot fail to please
every customer, both Ladies, Gentle-
men, and children.
Those Gentlemen, who stand in
need of, or wish to set up a queue,
may be assured that he can fit them
with all sizes and prizes, from the
noble, large, commodious, grey
wig, that was lately cried to be
sold by auction, down to the shab-
by one, that makes the wearer appear
no more than a modern crop.
Not being a Dentist, he con-
fesses (for it gives him pleasure
always to speak the truth) that he
did not commission any person to go
on the *Continent*, to knock out the
teeth and cut off the locks of those
killed in the last campaign (which
he hopes the Ladies will excuse); yet
he can assure them that he has in
his shop a collection of hair, of
different lengths, to accommodate
as well the maypole as the dutch-
built dame: and to suit all manner
of complexions from the comely
brunette to the lily white. Those
Ladies to whom Nature has not
been quite so liberal as to others,
he would have refrain from despair
of making their market, and to

JULY hath xxxi Days.

M	© Dec.
D	North.

New Moon	3	} Day	} at	3	ho.	27	m.	Morn.
First Quarter	10			4	12	Morn.		
Full Moon	17			1	17	Morn.		
Last Quarter	24			8	36	After.		

1	23°	7
6	22	41
11	22	6
16	21	21
21	20	27
26	19	25

© enters ♋ 22 day, at 10 h. 53 m. After.

1	20	M		Cambridge Com.
2	21	Tu	Visita. of B. V. Mary	Now in due order comes July,
3	22	W	Dog Days begin	The month is mostly hot and dry,
4	23	Th	Transf. of St. Martin	Had I some ale, I really think,
5	24	F	Cam. Term ends.	That I could make a shift to drink;
6	25	S		Provided it were strong and cool,
7	26	F	5th Sund. aft. Trin.	For Robin is not such a fool,
8	27	M	Oxford Act.	To fetch cold water out of town,
9	28	Tu		To wash his beans and bacon down;
10	29	W		And drinking water at the spring,
11	30	Th		When hot, is a sad dangerous thing,
12	July	F		I've heard the learn'd physician say,
13	2	S	Oxford Term ends	And their advice it is my way
14	3	F	8th Sund. aft. Trin.	To follow, when I think it good,
15	4	M	Swithin	Let me not be misunderstood;
16	5	Tu		I cannot bear to die for thirst,
17	6	W		No! I would drink cold water first,
18	7	Th		I'd rather mix it though with rum;
19	8	F		Dear lasses run and fetch me some:
20	9	S	Margaret.	Left such a genius as I,
21	10	F	9th Sund. aft. Trin.	Should of cold water drink and die;
22	11	M	Magdalen	My reasonable prayer regard,
23	12	Tu		You know the times are very hard,
24	13	W		And as I always give advice,
25	14	Th	St. James	Gratis, to maids in matters nice:
26	15	F	Anne	And have no money now to buy
27	16	S		The rum I want, dear lasses try
28	17	F	10th Sun. aft. Trin.	To lend me some, or beg, or borrow,
29	18	M		Left being overwhelm'd with sorrow,
30	19	Tu		I lost be, and you seek in vain,
31	20	W		My fellow to meet with again.

Observations in JULY.

				M	Clock
				D	aft. Sun.
I have known it cold in June, but in July,				1	3' 22"
'Tis seldom otherwise than hot and dry;				6	4 16
And I'm so hot and dry, I really think				11	5 2
I could not live, if I could get no drink:				16	5 36
Bring me a goblet then, and a full bowl,				21	5 57
That I may fit and cherish my old soul.				26	6 5
1	III	VIII	1m 50 28	For vending	cheer up their spirits, for by applying
2	46	14 2	29 29	the rare	to him, who has cream of vio-
3	47	13 D	sets N	tincture of	lets, essence of roses, honey-suckle
4	47	13 9 a	52 1	the moon,	soap, and poppy water, which re-
5	48	12 10	17 2	His name is	moves tan and freckles, those great
6	49	11 10	38 3	up, so he	enemies of beauty, none need be
7	49	11 10	54 4	may lie till	without good hopes.
8	50	10 11	9 5	noon.	Any young Gentleman, who first
9	51	9 11	22 6	Such the late	begins to perceive, by his glass,
10	52	8 11	37 7	Thomas	a little down springing from his
11	53	7 11	55 8	Wright,	chin, who thinks himself despised
12	54	6 morn.	9 9	of Eaton near	by the Ladies for his smooth face,
13	55	5 0	15 10	To Melton	and wishes to be possess'd of the
14	56	4 0	45 11	Mowbray,	thick rough beard of a man, let
15	57	3 1	28 12	who deceas'd	him walk in: for, by lathering his
16	58	2 2	25 13	last year.	cheeks, and passing over them with
17	59	1 D	rises F	Who was by	the back of my best concave razor, he
18	IV	VII	9 a 37 15	Carnan, T.	may depend on soon finding a great
19	2	58 9	47 16	a black-	change!!! Secrecy will be observed
20	3	57 10	2 17	smith call'd	in this, as in all other cases: that
21	4	56 10	14 18	When he fo	the jeers and taunts of the world
22	5	55 10	25 19	in his al	may be avoided, which, who would
23	7	53 10	37 20	manack	bear!
24	8	52 10	48 21	him maul'd.	N.B. The Leicester Journal is
25	10	50 11	2 22	Falsely to	taken in for the use of the weekly
26	11	49 11	20 23	slander him	politicians.—No political debates
27	12	48 11	45 24	was surely	allowed in the shop between high
28	14	46 morn.	25 25	hard,	Ministerialists and violent Jacobins,
29	15	45 0	20 26	He was not a	that will any way breed disturbance.
30	17	43 1	7 27	blacksmith	For Mr. Cramp publicly avows him-
31	18	42 2	10 28	but a black-	self to be, and which he hopes
				guard,	every other Christian is—a friend
					to King George, peace, and good-
					will.
					'Tis J. Cramp, the barber, who live
					in this place,
					Well noted for shaving (not cutting)
					the face.

August hath xxxi Days.				M	Decl.				
				D	North.				
New Moon	1	} Day at	{	1 ho. 46 m.	Aft.	1	17	59	
First Quarter	8			8	55	Morn.	6	16	40
Full Moon	15			0	29	Aft.	11	15	13
Last Quarter	23			2	21	Aft.	16	13	41
New Moon	30			11	0	Night.	21	12	3
☉ enters ♍ 23d. at 5 ho. 17m. Morn.				26	10	21			
1	21	Th	Lammas Day	The plaguey dog-days, sultry hot, I hope will soon be ended, As drinking beer so many a pot, May be with ill attended.					
2	22	F							
3	23	S							
4	24	F	11th Sun. aft. Trin.						
5	25	M		I never eat shall till I burst, Don't for a glutton flout me; I'd kill myself with drinking fire, So care no more about me.					
6	26	Tu	Transfiguration						
7	27	W	Name of Jesus. Prs.						
8	28	Th	[Amelia, b. 1783	Dogs-days are gone, yet heat remains, And consequently dryness;					
9	29	F							
10	30	S	Lawrence						
11	31	F	2th Sun. aft. Trin.	Du. of Brunf. born 1737.					
12	Aug.	M	11. of Wales b. 1762	Dog Days end in Britain [O. Lam. Day.					
13	2	Tu							
14	3	W							
15	4	Th	Assum. of B. V. M.	He that can get, fill takes pains To drink ale without thyness.					
16	5	F	D. of York b. 1763						
17	6	S		O'er modesty is not the fault Of those that love good liquor;					
18	7	F	13th Sun. aft. Trin.	Flowing strong tincture of sweet malt The wit makes clear and quicker.					
19	8	M							
20	9	Tu							
21	10	W	D. of Clar. b. 1765	Not to put too much water to't, Be sure you charge the brewer, You better with malt over do't Of pots you'll need the fewer.					
22	11	Th							
23	12	F							
24	13	S	St. Bartholomew						
25	14	F	14th Sun. aft. Trin]	So pray now, Gibson, stir about 'Twill make a rich old miser Grow generous, and so no doubt Both better be and wifer.					
26	15	M							
27	16	Tu							
28	17	W	Augustine of H.						
29	18	Th	St. John-Bap. Behe.						
30	19	F							
31	20	S							

Observations in August.

	M	Clock
	D	bef. ☉
Rich August's come, and now the corn is ripe,	1	5' 55'
I'll sit and drink for joy and smoke my pipe,	6	5 30
If the crop plenteous prove and well got in,	11	4 50
If not, I know repining is a sin,	16	3 56
That never yet did good, I'll be content	21	2 49
With what in mercy Providence has sent.	26	1 31

IV	VII	D	fets.	N	Such was old	If your hair's grown too long, or
222	38	8	a 39	1	Gadbury,	your beard feels uneasy,
323	37	8	59	2	in days of	Pray walk into my shop, I'll endeavour to please ye.
425	35	9	14	3	yore,	Do you wish to look fair, with your face smooth and clean?
526	34	9	29	4	John Partridge,	Here's my box full of fuds, and a razor that's keen.
628	32	9	43	5	Tycho Wing	and
730	30	9	59	6		Or to powder your hair (if a license you've gotten)
831	29	10	19	7	Francis Moore.	With my dust-bag, and puff soft as Indian cotton,
933	27	10	46	8	Now by the	I'll trim up your head to the mode of the day,
1035	25	11	23	9	Weather-glass Man	Then brush down your cloaths, and give thanks for your pay;
1137	23	morn.		10	carry'd on,	With a scrape and a cringe, if you're leaving my shop,
1238	22	0	15	11	With	Or a chair, and the news, if you please, Sir, to stop!
1340	20	1	20	12	Henry Seafon	Your requests I'll fulfil to the orders you give,
1442	18	2	36	13	D rifies	And endeavour to please you as long as I live.
1544	16			F	long knce	To the Editor of Poor Robin's Almanack, Stationer's-Hall, Lond.
1645	15	8	a 10	15	dead and	POST PAID.
1747	13	8	22	16	gone.	So much for Mr. Cramp, to whom I am much obliged for his communication; which could not be inserted the year it was sent, because the copy was nearly finish'd before it came to hand. And last year it was intended to be introduced into the preface, but the subject of gambling and gamblers
1849	11	8	34	17	I add might	
1951	9	8	46	18	many more	
2053	7	8	59	19	of the same	
2154	6	9	12	20	kind,	
2256	4	9	27	21	Who're dead	
2358	2	9	49	22	and left	
24	V	VI	10	19	23	their noble names behind.
25	2	58	10	59	24	But their remembrance shall surely last,
26	4	56	11	54	25	Thro' the long reign of
27	6	54	morn.	26	26	folly not yet
28	8	52	1	6	27	past.
29	9	51	2	25	28	
30	11	49	D fets.	N		
31	13	47	7	a 25	1	

SEPTEMBER hath xxx Days.				M	Decl.
				D	North.
First Quarter	6	} Day at } }	2 h. 59 m. Aft.	1	8° 12"
Full Moon	14		2 31 Morn.	6	6 22
Last Quarter	22		7 23 Morn.	11	4 28
New Moon	29		8 4 Morn.	16	2 33
☉ enters ≈ 23 day, at 1 ho. 49m. morn.				21	0 36
	26			26	Sou. 20
1	21	F 15th Sun. aft. Trin.	July and August gone, remember,		
2	22	M Lond. burnt 1666,	To make the most now of September;		
3	23	Tu (O.S.)	For be the weather foul or fine,		
4	24	W	The days are now on the decline,		
5	25	Th	The green leaves fade, their vigour's		
6	26	F	gone		
7	27	S Enurchus	The stern cold winter's coming on,		
8	28	F 16th Sun. aft. Trin.	The twilight's short and long the night,		
9	29	M Nat. of B. V. Mary			
10	30	Tu	Requiring fire and candlelight.		
11	31	W	Perhaps the harvest is not in		
12	Sept. 1	Th	To idle be's a heinous sin;		
13	2	F	When there is work enough to do		
14	3	S Holy Cross	Let all who're able buckle to,		
15	4	F 17th Sun. aft. Trin.	It pleasure will and profit yield,		
16	5	M	To fill the barn and clear the field.		
17	6	Tu Lambert	The hops to pluck, and dry, and store,		
18	7	W Ember Week	Now usefully employs the poor;		
19	8	Th	I, when they are plentiful, can't fail		
20	9	F	To glad be, they so mend the ale,		
21	10	S St. Matthew	Keep it from fouring, and so make		
22	11	F 18th Sun. aft. Trin.	Unapt to give the belly-ache.		
23	12	M The Autum. Equi.	The which it has a mighty pow'r		
24	13	Tu	Of doing when 'tis very four.		
25	14	W Old Holyrood	K. Geo. III. crown'd 1761.		
26	15	Th Cyprian	But when well hopp'd, & kept in Butts,		
27	16	F	It better suits my poor old gutts.		
28	17	S	Yet, ah! my hopes long since are flown		
29	18	F 19th Sun. aft. Trin.	To see one Butt to call my own.		
30	19	M Jerome			

Observations in SEPTEMBER.

		M	Clock
		D	aft. ☉
1	Again this month bright Sol will cross the Line,	1	0' 14"
2	When the year's glories quickly will decline,	6	1 51
3	No more are heard the nightingale and thrush,	11	3 33
4	Nay even, robin redbreast quits the bush,	16	5 18
5	To sing his doleful lay each eve and morn;	21	7 4
6	Whil'ft all around looks dreary and forlorn.	26	8 46
1	V 7 a 38	2	Till country proved too copious to admit of it.
2	17 43 7 54	3	folks shall However, I hope, Mr. Cramp will
3	19 41 8 11	4	all agree to- join with me in saying, better late
4	21 39 8 30	5	gether, than never.
5	23 37 8 55	6	No longer to The next important subject that
6	25 35 9 28	7	be cheated occurs to me at present is a tale
7	27 33 10 14	8	with false about a poultry-cock, communi-
8	29 31 11 18	9	weather. cated by a young Lady, who in-
9	31 29 morn.	10	form'd me, that a Gentlewoman in
10	32 28 0 31	11	their street, who had such an one,
11	34 26 1 50	12	was offended at a jacobin neigh-
12	36 24 3 7	13	bour taking the liberty to intice the
13	38 22 4 25	14	bird, and feed him with corn, to
14	40 20 D rises F	15	prevent which he took him and dip'd
15	42 18 7 a 1	16	him in the blue-water, made ten
16	44 16 7 13	17	times bluer than usual, and turn'd
17	46 14 7 25	18	him up again, with a slip of paper
18	48 12 7 40	19	about his neck, on which were in-
19	50 10 7 59	20	scribed the following lines. Penn'd,
20	52 8 8 25	21	as is supposed, by her own hand.
21	54 6 9 0	22	You say I appear now quite poor
22	56 4 9 46	23	and forlorn,
23	58 2 10 51	24	And have try'd to seduce me with
24	VI 2 10 51	25	jacobin corn.
25	V 2 58 0 7	26	I well fed at home am, with good
26	4 56 1 31	27	healthy food,
27	6 54 3 0	28	I'm true to my king, to my hen,
28	8 52 4 29	29	and my brood.
29	10 50 D sets N	30	You may coax me, and feed me,
30	12 48 6 a 24 1		and pity me too,
			But, believe me, at heart, I'm a
			cock of true blue.
			Tho' you love the French, and
			Ca ira would sing:
			I can crow to the old tune of God
			save the King.

OCTOBER hath xxxi Days.

						M	⊙ Decl.
						D	h. m.
First Quarter	5	} Day at	11 h.	34 m.	Night.	1	3° 17'
Full Moon	13		7	24	Aft.	6	5 13
Last Quarter	21		10	44	Night.	11	7 7
New Moon	28		5	36	Aft.	16	8 59
						21	10 48
						26	12 13

☉ enters in 23 day, at 9 ho. 51 m. Morn.

1	20	Tu	Remigius Bp.	October is come, let those who please,
2	21	W	Old St. Matthew	And can afford it, toast their cheefe;
3	22	Th		But they that think it now too dear,
4	23	F		And have but little cash to spare,
5	24	S		Or love to husband well their gold,
6	25	F	20th Sun. aft. Trin.	Faith I'd advise to eat it cold;
7	26	M		Faith.
8	27	Tu		Especially if they find that
9	28	W	Denys B. M.	It is not overdone with fat;
10	29	Th	Ox. & Cam. T. beg.	Or fat or not, 'tis very dear,
11	30	F		Old Michael. Day
12	Oct. 1	S		Nor will it soon be cheap, I fear.
13	2	F	21st Sun. aft. Trin.	In times not half so hard as these
14	3	M		Trans. of K. Ed. Conf.
15	4	Tu		Bite of your bread and smell of your
16	5	W		cheefe;
17	6	Th	Etheldreda Virg.	A proverb was, as I've been told,
18	7	F	St. Luke.	By my grandmother, wife and old,
19	8	S		And sagely in my sapient head
20	9	F	22d Sun. aft. Trin.	I treasure'd up have all she said;
21	10	M		Then surely, you must all agree,
22	11	Tu		He's a rare grandson who's like me,
23	12	W		That have of memory such a gift,
24	13	Th	[1760.	In all that appertains to thrift
25	14	F	K. Geo. III. Acces.	And savingness, that surely no man
26	15	S	K. G. III. Pr. 1760	E'er learnt so much of an old woman.
27	16	F	23d Sun. aft. Trin.	Crispin.
28	17	M	St. Simon & St. Jude.	Let coblers keep their holiday on
29	18	Tu		Mondays,
30	19	W		I don't allow them to get drunk on
31	20	Th		Sundays.

Observations in OCTOBER.

M	Clock
D	bef. ☉

1	The Robinet on the barn-top, his wings	1	10 ^o 23 ^{''}
2	Hanging in drooping posture, sits and sings,	6	11 54
3	He bye and bye will to your windows come,	11	13 15
4	That some fair hand may throw him a bread crumb :	16	14 23
5	The wilder songster tribes fly human hands,	21	15 17
6	And fly for suitenance to other lands.	26	15 54

1	VI	V	6 a 41	2	The weather	So much for my fair royalist,
2	16	44	7 4	3	to foretell	whose principles, tho' I admire, I
3	18	42	7 35	4	they try,	cannot much commend her con-
4	20	40	8 18	5	And every	duct towards this poor fowl. Her
5	22	38	9 17	6	year they're	own good sense should have told her
6	24	36	10 28	7	prov'd to be	that <i>jacobin</i> corn was better for
7	26	34	11 46	8	a lye.	fowls than <i>jacobite</i> true blue. But
8	28	32	morn.	9	Tho' sure as	thus it is in all party matters, the
9	29	31	1	10	try'd, so sure-	most senseless things are both said
10	31	29	2 21	11	ly they de-	and done, out of a spirit of party
11	33	27	3 35	12	ceive them,	rancour, opposition, and contra-
12	35	25	4 47	13	They others	diction.
13	37	23	D rises	14	would per-	I remember, a few years back,
14	39	21	5 a 40	15	suade still to	to have been at a corporation town,
15	41	19	5 56	16	believethem.	where these fair ones above men-
16	43	17	6 12	17	Our <i>Harvey</i>	tioned live, when a very numerous
17	45	15	6 34	18	such as these	mob had gotten a drunken fellow
18	47	13	7 4	19	held up to	in a chair, and were hoisting him
19	49	11	7 47	20	view,	round the market-place, and prin-
20	51	9	8 43	21	Laughter	cipal streets of the town, because
21	53	7	9 52	22	and ridicule;	they said he was a cock of true blue;
22	55	5	11 11	23	that so	they had put him on a blue wig,
23	56	4	morn.	24	what's true,	big enough for a judge, and de-
24	58	2	0 34	25	He teach	corated his chair with blue ribbons,
25	VII	IV	2 0 26	26	them might	so that he look'd like a blue d--l.
26	2	58	3 29	27	as it deserves	On my enquiring the meaning of
27	4	56	4 57	28	to prize,	all this, I was told that they had
28	6	54	D fets	29	And not for	been chusing him a Counsellor,
29	8	52	5 a 11	30	ever made be	a senior common-councilman, to
30	9	51	5 35	31	dupes to	manage the affairs of the Borough
31	11	49	6 15	32	lyes.	according to its charter. And the
				33		burgesses of the place had elected
				34		this ragamuffin, and were chairing
				35		him, as they call'd it, in opposi-
				36		tion to a wine merchant, who was
				37		a reputable tradesman, and sensible
				38		man, but did not much delight in
				39		true-blue, riot, noise, and non-

NOVEMBER hath xxx Days.

M
D☉ Decl.
South.

First Quarter	4	} Day at	} 11 h. 34 m.	Morn.	1	14° 32'			
Full Moon	12			2	8	Aftn.	6	16	5
Last Quarter	20			11	50	Morn.	11	17	31
New Moon	27			3	50	Morn.	16	18	50
☉ enters ♀ 22 day, at 6 ho, 9 m. Morn.						21	20	0	
						26	21	1	

1	21	F	All Saints.	I've heard November, or I am much
2	22	S	Pr. Edward born.	All Souls. (mistaken,
3	23	F	24 S. af. Trin. Prs.	So. b. 1777. On m. of All S. 1r.
4	24	M	K. William landed	Is reckon'd the best month for curing
5	25	Tu	Powder Plot 1605.	bacon.
6	26	W	Leon. Mich. Tr. b.	Less salt will do, the hams and chops
7	27	Th	(1768	are pale
8	28	F	Prs. Aug. Sophia b.	When cut, and therefore readier is the
9	29	S	Lord Mayor's Day	fale.
10	30	F	25th Sun. aft. Trin.	The fat is fast, tender and fresh the
11	31	M	Martin.	lean,
12	Nov.	Tu	On mor. of St. M. 2r.	Cam. Term divides at midn.
13	2	W	Britius.	Unapt to rust, it looks both clear and
14	3	Th		clean.
15	4	F	Machutus	Whereas, if you till nearer spring
16	5	S		delay,
17	6	F	26th Sun. aft. Trin.	Hugh Bp. of Linc.
18	7	M	In 8 days of Mart. 3r.	When others their old fows think fit
19	8	Tu		to slay,
20	9	W	Edm. K. and Mar.	Salt as the pillar once the wife of Lot,
21	10	Th		The hams must made be, or they keep
22	11	F	Cecilia. Old Mart.	will not.
23	12	S	Clement	Yellow and soft the fitches too will
24	13	F	27th Sun. aft. Trin.	prove,
25	14	M	D. of Glo. b. 1743	Cath. In 15 d. of St. M. 4 ret.
26	15	Tu		And rusty bacon few are found to love.
27	16	W		Good wives will mind these maxims,
28	17	Th	Mich. Term ends.	and I still
29	18	F		Must wish, I had a good fat pig to
30	19	S	St. Andrew.	kill.

Observations in NOVEMBER.

				M	Clock
				D	aft. ☉
For him who out must in November go,				1	16' 14"
A warm great coat is no bad thing I trow,				6	16 9
And usefully may added be, I think,				11	15 43
A twiggen bottle fill'd with rum to drink;				16	14 56
Cold water drinking, I to judge have reason,				21	13 48
Tho' wholesome, ill adapted to the season.				26	12 20
1	VII	IV	7 a 9	4	On the same sense, but left them to those on the other side of the question.
2	15		8 16	5	subject I
3	17		9 34	6	much more
4	18		10 54	7	could say,
5	20		morn.	8	But as its
6	22		0 12	9	now No-
7	24		1 27	10	vember the
8	25		2 38	11	eight day.
9	27		3 49	12	And as but
10	29		4 59	13	one more
11	30		6 11	14	month,
12	32		8 23	15	namely De-
13	33		10 35	16	cember,
14	35		12 47	17	Remains to
15	37		14 59	18	be filled up,
16	38		17 11	19	I must re-
17	40		19 23	20	member
18	41		21 35	21	To stop here
19	42		23 47	22	and select a
20	44		26 59	23	chosen few.
21	45		29 11	24	Not over-
22	47		31 23	25	fam'd for
23	48		33 35	26	being just
24	49		35 47	27	and true,
25	51		38 59	28	A spend-
26	52		41 11	29	thrift's ho-
27	53		43 23	30	nesty, a
28	54		45 35	31	lyar's word,
29	55		47 47	32	With a
30	56		49 59	33	whore's mo-
			52 11	34	desty, and
			54 23	35	coward's
			56 35	36	sword.
			58 47	37	Who to riot and infamy ever was
			60 59	38	prone,
			63 11	39	'Tis he is the tyrant who hath taken
			65 23	40	much pains,
			67 35	41	To rule o'er your hearts, and now
			69 47	42	holds them in chains;

MILLIONS BE WISE.
Tune--To Anacreon in Heaven.
 Father Time may unfold from his earliest page,
 Since the world was first form'd 'till this present age,
 The spirit of freedom can no where be found
 To have flourish'd so fair, as on Britain's bless'd ground ;
 The picture of woe France presents to your sight,
 Adds a ray to our glory, makes the lustre more bright;
 Then think on the blessings that Britain enjoys,
 She gives freedom to all and bids millions be wise.
 What a tale full of woe hast thou France to relate,
 Ye rebels of England be warn'd by her fate,
 'Tis HE, who presum'd Heaven's king to dethrone,
 Who to riot and infamy ever was prone,
 'Tis he is the tyrant who hath taken much pains,
 To rule o'er your hearts, and now holds them in chains;

DECEMBER hath xxxi Days.

		M	D	Decl.			
				South.			
First Quarter	4	Day at	3 h. 26 m.	Morn.	1	21° 52'	
Full Moon	12		8	55	Morn.	6	22 33
Last Quarter	19		10	41	Night.	11	23 3
New Moon	26		2	54	Aft.	16	23 21
						21	23 27
☉ enters ♍ 21st day 6 ho. 33 m. After.					26	23 22	

1	20	F	Advent Sunday.	December comes, and lo! stern
2	21	M		winter's here,
3	22	Tu		Strip of their liveries the trees appear,
4	23	W		Save still the holly, ivy, box, is seen,
5	24	Th		Our churches to deck out in red
6	25	F	Nicholas	and green:
7	26	S		Because their hardy foilage will last,
8	27	F	2d. Sun. in Advent.	Concept, of Virgin Mary.
9	28	M		When other trees have their green
10	29	Tu		honours cast,
11	30	W		The ever-greens are call'd fit emblems
12	Dec.	Th		they
13	2	F	Lucy	Of Christian hope, the everlasting day,
14	3	S		The promise ever sure, we safely trust,
15	4	F	3d. Sun. in Advent.	Though flesh and blood must mingled
16	5	M	O Sapientia! Cam.	be with dust.
17	6	Tu	Oxford Term ends	Term ends.
18	7	W	Ember Week.	That vital spark, the Christian soul,
19	8	Th		death part,
20	9	F		Cloath'd with new glories, shall for
21	10	S	St. Thomas. Shortest	ever last.
22	11	F	4th Sun. in Adv.	That grace divine for help on earth now
23	12	M		given,
24	13	Tu		Shall new delight and glory prove in
25	14	W	Christmas Day.	heaven.
26	15	Th	St. Stephen.	Then let us celebrate his natal day,
27	16	F	St. John Ev.	Who thro' the grave to heaven led the
28	17	S	Innocents.	way:
29	18	F	1st Sun. aft. Christ.	And as we seek the happiness he
30	19	M	Days increased 6 m.	bought,
31	20	Tu	Silvester Bp.	Practice the holy duties he has taught.

A TABLE of Terms and their Returns. 1799.

Very necessary for all those who are so unfortunate as to be obliged to go to Law.

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

Returns or Effoign Days.		Ex.	Ret	Ap.	W.D.
On the Octave of St. Hillary, -	Jan. 20	21	22	23	Wedn.
In 15 days from the day of St. Hillary,	27	28	29	30	Wedn.
On the Mor. of the Purif. B. V. M.	Feb. 3	4	5	6	Wedn.
On the Octave of the Purif. B. V. M.	9	10	11	12	Tues.

Easter Term begins April 10, ends May 6.

In 15 Days after Easter - - -	Apr. 7	8	9	10	Wedn.
In 3 weeks from Easter day - -	14	15	16	17	Wedn.
In 1 Month from Easter day - -	21	22	23	24	Wedn.
In 5 Weeks from Easter day - -	28	29	30	MI	Wedn.
On the Morrow of the Ascension	May 31	4	5	6	Mond.

Trinity Term begins May 24, ends June 12.

On the morrow of the Holy Trinity -	May 20	21	22	24	Friday
On the Octave of the Holy Trinity	26	27	28	29	Wedn.
In 15 Days from the Holy Trinity	June 2	3	4	5	Wedn.
In 3 Weeks from the Holy Trin.	9	10	11	12	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
On the Octave of St. Martin. - -	18	19	20	21	Thurs.
In 15 Days of St. Martin, - - -	25	26	27	28	Thurs.

N. B. No fittings in Westminster-hall on Candlemas Day, Atencion Day, and Midsummer Day.

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.

When Lawyers cease perverting Laws, And in wise Statutes finding flaws,	Perverting what is just and clear, The last great Judgment will be near.
--	---

POOR ROBIN,

1799.

PART THE SECOND.

Containing as much Astrology as is necessary for a Performance of this Kind, and no more than the Truth; which gives it by much the Preference to all other annual Prognostications: with such Tables and Observations as (added to the First Part) are highly useful to all Astronomers, Astrologers, Accountants, Chronologers, and Politicians.

Golden Number 14 | Cycle of the Sun 16 | Dominical Letter F.
The Epact - 23 | Roman Indiction 2

ASTRONOMICAL CHARACTERS.

PLANETS.

- ☉ The Sun.
- ☾ The Moon.
- ☿ Mercury.
- ♀ Venus.
- ♂ Mars.
- ♃ Jupiter.
- ♄ Saturn.
- ♊ Ascending Node.
- ♋ Descending Node.
- ♌ Conjunction.
- ♍ Opposition.

SIGNS of the ZODIAC.

- ♈ Aries,
- ♉ Taurus.
- ♊ Gemini,
- ♋ Cancer.
- ♌ Leo.
- ♍ Virgo.
- ♎ Libra.
- ♏ Scorpio.
- ♐ Sagittarius.
- ♑ Capricorn.
- ♒ Aquarius. ✕ Pisces.

THE ANATOMY.



A correct TABLE of the MOON'S SOUTHING calculated
one who has any thing to do with

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

for the YEAR of our LORD, 1799, highly necessary for every
 her either by Land or Water.

M. D.	July.		August.		Sept.		Octob.		Nov.		Dec.	
	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.	H.	M.
1	10	m. 31	Aft.	3	1	26	1	59	3	50	4 ^a	25
2	11	26	0	56	2	17	2	56	4	50	5	16
3	Aft.	22	1	49	3	8	3	55	5	47	6	1
4	1	18	2	39	4	1	4	56	6	40	6	44
5	2	13	3	28	4	57	5	57	7	27	7	24
6	3	5	4	17	5	55	6	55	8	11	8	3
7	3	55	5	7	6	54	7	50	8	52	8	42
8	4	44	5	59	7	54	8	40	9	32	9	23
9	5	31	6	55	8	51	9	26	10	12	10	6
10	6	20	7	53	9	44	10	9	10	52	10	51
11	7	11	8	53	10	33	10	50	11	34	11	40
12	8	4	9	52	11	19	11	30	Morn.	Morn.		
13	9	1	10	48	Morn.		Morn.	0	18	0		32
14	10	11	11	41	0	2	0	10	1	4	1	25
15	11	1	Morn.	0	0	43	0	51	1	54	2	18
16	Morn.	0	30	1	23	1	34	2	46	3	10	0
17	0	0	1	15	2	3	2	19	3	39	4	0
18	0	56	1	57	2	45	3	6	4	32	4	48
19	1	47	2	37	3	28	3	57	5	23	5	34
20	2	34	3	17	4	14	4	50	6	13	6	21
21	3	18	3	58	5	4	5	44	7	2	7	8
22	3	59	4	40	5	57	6	38	7	50	7	57
23	4	39	5	25	6	51	7	31	8	38	8	50
24	5	19	6	12	7	47	8	23	9	28	9	47
25	5	59	7	4	8	42	9	13	10	21	10	49
26	6	42	7	59	9	37	10	4	11	18	11	53
27	7	28	8	55	10	30	10	55	Aft.	20	Aft.	57
28	8	18	9	52	11	22	11	48	1	24	1	56
29	9	11	10	49	Aft.	13	Aft.	44	2	28	2	51
30	10	8	11	43	1	5	1	43	3	29	3	40
31	11	5	Aft.	35			2	46		4		25

Now, where's my dear lady? What pity it is,
 But she stood at my back while I'm writing all this:
 As true as the day, and of good sense as full,
 As the mysteries hid in a Jacobin's skull,
 That by the sweet firelight of brimstone look blue,
 A prospect delightful for devils to view.
 But as my wife's absent be patient I must,
 For she gone is to buy me a candle on trust:
 If she bring one, her heart sure exult must with joy,
 That on subjects so proper my pen I employ,
 Yet the errand she's gone on, I needs must confess,
 Problematical is, or of doubtful success:

As every penny-less poet must see,
 Who nought but his wits has to trust to, like me.
 And yet when I've money to pay I pains take,
 Lest of credit and conscience the shipwreck I make:
 For this candle she pay must, and promise to pay,
 Which I, when I'm able, shall never gainsay.
 Tho' poor wretches, like me, I'm full well aware, must
 Use humble intreaties, yet pay for their trust:
 For, tho' frequently rich-folks are squeeze'd by a griper,
 'Tis ever found true that the poor pay the piper.
 Then, what must become of all people in trade,
 If it was not for those by whom pipers are paid?

But lo! the door opens, and in my wife's come,
 With a whole pound of candles hung over her thumb.
 Joy smil'd on her face, and made sparkle her eyes,
 While she held up her hand and said, see what a prize!
 A Gentleman's given, who has felt such delight by
 Your works; he has sent you these tapers to write by.
 He says you so nobly can handle the quill,
 'Tis ten thousand pities you e'er should sit still.
 He, therefore, of candles has sent you a score,
 And says, when they're done, he'll supply you with more.
 Like a man that awakes from a troublesome dream,
 And finds it delusion, so lightsome I seem,
 Bless the Gentleman's heart, then, I cry out in haste;
 How deep is his judgment, how fine is his taste!
 So I'll dedicate to him these rare nervous lines,
 In which wisdom with wit and discretion combines.

Here goes then, O thou! whose discernment's so good,
 As to comprehend marvels by few understood,
 And of thy great bounty, to give hast thought fit,
 A full pound of lights to illumine my wit,
 I scorn to deceive, have of gratitude store,
 Very thankful for gifts, when I'm wishing for more;

Very glad am to find how my deep lucubrations
 Are priz'd by the worthy, and wise of all nations;
 Containing such tales, and so pithily told,
 The young to instruct, and enliven the old,
 With care so compactly I stick to my text,
 That you may not with uselefs digressions be vex'd,
 Nor with periods long be still run out of wind,
 How aptly good sense with conciseness I've join'd;
 Except now and then I put in a dead letter,
 That what's brisk and lively so taste may the better,
 So writing my book, I endeavour to do't,
 That it one way or other all palates may suit.
 To buy it, let old and young maids run together,
 'Tis an almanack true, that foretells no bad weather.
 It's worth by deep Pitt is so well understood,
 That he's doubled it's price for the public good,
 And conferr'd on it's Author such vast obligation,
 For cursing his foes, and instructing the nation,
 So that he in office for ever may stay;
 He has, of all authors, the most cause to pray:
 Since his name's Robin Poor, he each year poorer makes him,
 So that deep rooted poverty never forsakes him.
 High matters of state thus he charmingly handles,
 And with gratitude great for these beautiful candles,
 By whose shining light he has this dedication
 So wrote, that it needs must instruct the whole nation.
 For my worthy friend, therefore, I ever must pray,
 Who thus has transform'd my dark night into day,
 And when I've burnt these out, because I am poor,
 Of his bountiful kindness, has promis'd me more.

But now to proceed, as I well understand
 The vast use of my book to each lord in this land;
 That their wits without it must than coulters be duller,
 I kindly wish sense deep have fill'd it the fuller,
 That gentle and simple together may flock,
 'Till I've sold all my books, and laid in a fresh stock.
 And having cash left then, I cannot help thinking
 Of laying it out in good eating and drinking.
 So, right wisely, enjoy I the fruit of my labours,
 That I may not be rich, to be grudg'd by my neighbours;
 For riches cause envy, and envy breeds strife,
 Which I wish to avoid all the days of my life.
 I know he that spends all he has in his kitchen,
 Will ne'er find a parlour to sit and grow rich in.

But these matters of prudence ne'er enter my skull,
 While my coal heap is high, and my barrels are full;

He that over solicitous is for the morrow,
 Gives the present day more than its due share of sorrow,
 Who, then, would enjoyment forego to seek care,
 Which is ever dirt-cheap, and abounds every where?
 While I've coal and candle, and victuals and drink,
 The best thing I can do, is to use them, I think.
 My coal-heap to save 'till it's rotten is sad,
 And my liquor to keep 'till it's sour is as bad;
 So I make special minding, nor now the truth smother,
 And ever avoid both the one and the other,
 That my coals over-long on a vast heap don't lie,
 Nor drinking leave off 'till my barrel is dry.
 Nor let me forget what a blessing it is,
 To have a kind wife that assists in all this:
 So we set foot to foot, like a true loving pair,
 And equally mind to have nothing to spare.
 Give us each day to dinner, then, good boil'd and roast,
 And at supper some nutmeg, to spice well our toast;
 With plenty of liquor that's wholesome and strong,
 Contented to live we'll be all our lives long.
 Unexpectedly found is a friend that will buy me
 My candles; who knows but that one to supply me
 With fire, meat and drink, and warm cloathing beside,
 May be found, on my searching well thro' the world wide.
 That I once more to reach my burnt-island may try,
 And in my snug castle of indolence lie,
 An end put to fasting, I'll constantly keep
 A feast all day long, and all night long I'll sleep.
 But all this rare doing, alas! all's mistake,
 For I'm sober, and fasting, and dreaming awake:
 And so do thousands more, who, like me, are such elves,
 To build castles in air to deceive their own selves.
 And far more do so, than can live by the pen.
 So fool'd on by hope and fond wishes are men;
 So fond of delusion, heed not reason's rules,
 They know they are cheated, and love to be fools.
Alnasebar the Persian, the Guardian says,
 Was too idle to work all his old father's days;
 Who one hundred drachmas, by industry won,
 Of money of Persia left to his son:
 Who soon proper thought it to lay out with care,
 In glasses and vases, and fine earthen ware.
 In a large open basket all these he pil'd up,
 And having made choice of a strait little shop,
 That, rais'd by three steps, was above the town street,
 With his basket so fill'd, with care plac'd at his feet,

And with his back leaning for ease on the wall,
 In this posture expecting his customers' call;
 With his eyes on the basket, he on a train fell
 Of thought most amusing, that pleas'd him full well.
 For he was overheard by a neighbour to say,
 As he talk'd to himself, this here basket to day
 Cost me, at the merchant's, in drachmas five score;
 It is all that I have in the world, but before
 It be long, I shall sell it by retail, and then,
 As the profits are large, my five score will be ten.
 (Well done, rare Alnafchar, it is a fine trade,
 By which profit of *centum per centum* is made.)
 These two hundred drachmas thus soon must four count,
 Which must quickly, of course, to four thousand amount;
 Soon these four thousand drachmas must double, and when
 By this means, I shall find myself master of ten,
 My trade of a glassman I then will lay by,
 And the more noble one of a jeweller try.
 In diamonds of all sorts, and pearls that men fish for,
 I shall deal, 'till I've got as much wealth as I wish for.
 When I purchase a house will, the best I can find,
 With horses, slaves, eunuchs, and lands to my mind.
 I then shall begin to feel pleasures and joys,
 That all thro' the world must needs make a great noise,
 I'll continue my traffic, nor think to stop there,
 'Till of drachmas I've one hundred thousand got clear;
 This will of my consequence all men evince,
 When I'll naturally set myself up for a Prince,
 And the *Grand Vizir's* daughter in marriage demand,
 That prime minister first having made understand
 What I've heard of her beauty, her wit, and discretion,
 And other high qualities in her possession.
 And that, on our wedding night, I will make bold
 To present him with one thousand pieces of gold.
 On our marriage, black eunuchs I'll buy for her ten,
 The best that for money can got be. And then
 To my father-in-law I a visit must pay,
 With a long train and equipage splendid and gay.
 And when at his right hand I'm plac'd in full view,
 Which, to honour his daughter, he'll not fail to do,
 I present will the promised pieces of gold,
 And, to his surprize, in my other hand hold
 Another purse, equal in value to this,
 Which also to give him, I think not amiss;
 And I'll say, worthy sir, pray don't judge it absurd
 To accept this; I love to be good as my word.

When

When I've brought home the princess, I'll take special
 pains,
 Ere I to love and dalliance let loose the reins,
 To breed in her bosom a proper respect
 For my person, to means use I shall not neglect.
 I to her own room shall confine her straitway,
 Make her a short visit, but little I'll say,
 Her women, of course, will to me represent,
 That by my unkindness her tender heart's rent,
 And beg me, with tears, to come in, and caress her,
 Or let her sit down by my side, and so bless her.
 But inexorable I'll still remain quite,
 And my back turn upon her will all the first night,
 Her mother will come, as I sit at my ease
 On my sofa, resolving to do as I please;
 Her daughter, in tears, then she to me will bring,
 Who now at my feet will herself humbly fling,
 And beg I'd receive her thus into my favour.
 Then, that she may always do as I would have her,
 To imprint in her for me a due veneration,
 And be careful, thro' life, not to give me vexation;
 My foot drawing up, I'll so spurn her withal,
 That she many a step from the sofa shall fall.

Alnaschar himself up to such a pitch wrought,
 As to act with his foot what he had in his thought;
 Forgetting his all in the world at his feet,
 He his top heavy basket kick'd into the street;
 So his glasses and vases, both upper and nether,
 Were all by the fall mash'd to pieces together.

This story contriv'd was to make it appear,
 'Tis foolish and vain to build castles in air:
 Idly wasting that time in vain flattering schemes,
 Which, tho' we're awake, are no better than dreams:
 When we might have had useful employment in mending,
 And carefully to our own business attending.
 Of the losses and crosses men misfortunes call,
 Those we bring on ourselves are the heaviest of all.

By our ungovern'd lusts, wills and appetites led,
 We forget divine vengeance hangs over our head;
 And the cup of false pleasure it mingles with gall,
 To think soon or late it will certainly fall.

Dionysus the elder proud Sicily's king,
 Whose riches and grandeur then made the world ring,
 Himself shew'd he still was an unhappy man,
 For when one of his flatterers, Damocles, began
 In a set speech to please him, his pow'r to proclaim
 His forces, his riches, his majesty, fame,

With the matchless magnificence of his seats royal,
 Shew'd him happiest of mortals beyond all denial.
 Dionysius reply'd, will you, therefore, Damocles,
 Because a king's life, as you think, must all so please,
 To try all this bliss will you therefore agree
 To taste it yourself, and change fortunes with me?
 When he joyous agreed thus to act in his stead,
 He order'd the man to be plac'd on a bed
 Of gold, with most beautiful furniture hung,
 Silver tablets, and gildings of gold set among.
 Then he chose the most beautiful boys in the land,
 These all round his table he order'd to stand,
 To watch with attention his every nod,
 And him to obey, as if he were a god.
 Costly ointments and coronets now are brought in,
 Golden censers of odours to burn soon begin;
 With exquisite dainties the tables are spread,
 And Damocles all happiness had in his head,
 As he seem'd to himself a most fortunate man.

Dionysius, pursuing a regular plan,
 A sharp flaming sword to a single horse hair
 He ty'd, and let hang from the ceiling with care,
 That if the hair broke, nothing more certain than,
 It must fall on the neck of this fortunate man;
 Which soon chang'd the face of affairs, we are told,
 And the curious tables of silver and gold,
 Nay, no more his fair boys to behold was he able,
 Nor so much as to stretch out his hand to the table;
 Of themselves out of sight the rich coronets fled,
 As he constantly fear'd the sword's fall on his head:
 So he beg'd to depart, he at length might be free,
 For he now wish'd no longer thus happy to be.
 Seems it not plain enough, Dionysius declares,
 That none can be happy, who ever has fears
 Of what hangs o'er his head, as his conscience still bleeds
 Thro' terror, that follow will all evil deeds?

For youth to elect now a fit scene of action,
 And behave themselves in't to their own satisfaction,
 To be frugal and honest, and true to their trust,
 And this to avoid stings of conscience they must,
 Is no easy matter. For when we are boys,
 And have only been busy'd in trifles and toys,
 Then by serious counsel the mind down to bend,
 'Tis safest to take the advice of a friend,
 Of experience try'd, and of virtue approv'd,
 And that is not by whim or caprice to be mov'd.

Or be led by our parents' example, to tread
 In their steps, and the way walk to which they were bred.
 'Tis a dangerous thing to be carry'd away
 By the choice of the multitude, who ever pray
 Most, for what they like best: and the major part chuse,
 For their finery and shew, what wise men would refuse.
 While some, by a sort of felicity led,
 Or a good disposition, that in them is bred,
 By wise parents' instruction, averse to all strife,
 Have ever gone on in the right path of life.
 Which those that stray out of, will find to their sorrow,
 That if sin leads to-day, misery follows to-morrow.

I have two friends at Athens, Antipater cries,
 Call'd Phocion and Demas, both honour'd and wise,
 But of manners as different, and tempers as wide
 As can well be imagin'd, their worth known and try'd.
 For Phocion known is to be very poor,
 Yet will accept nothing to increase his store:
 But to Demas whatever rich presents are sent,
 Yet he always is craving and never content.

It was in days of yore that this happen'd, I know;
 Yet, at this present time, things are not alter'd so;
 For a Phocion, in vain, you may search the world round,
 Those like Demas in plenty are every where found.
 Those that worthy and poor, and yet well content are,
 In every town dwell not. 'Tis equally rare,
 To find a rich man that's well pleas'd, and content
 With the bounty and blessings by Providence sent.
 The poor ever murmuring are, and repining,
 And the rich are too blind, to behold the design in
 The present wise order of things, which is meant
 To shew rich men should give, to make poor men content.
 And not, when they've now the most plenteous store
 Of all things, for ever be carking for more.
 For their children a superabundance to gain,
 And wear themselves out by a life full of pain.
 As it has long ago to the wise been seen clear,
 That gold, pearls, and diamonds, may be bought too dear;
 Bringing envy, vexation, and danger withal,
 For the higher the station, the greater the fall.
 The simple, when this kind of strife they're so hot at,
 Only set themselves up for a mark to be shot at.

This Phocion, of Athens, whom I've above nam'd,
 In both field and forum was most justly fam'd;
 And if to be richer he had been inclin'd,
 He easily might; for King Philip we find

Him ambassadors sent, with a great sum of gold,
 Which, thro' greatness of mind, he refus'd, and was told,
 That tho' such as he was might cash do without,
 He ought to provide for his children, no doubt;
 Since, worthy his glory, they ne'er would be able,
 In the midst of deep poverty, to keep a table.
 They'll the same little farm have to keep them, says he,
 Which to this distinction, alone, has led me;
 And, if they be like me, they may do the same;
 But, if not, it unworthy would be of my name,
 That their madness and luxury's fed and increas'd,
 Because money I say'd have to make fools a feast.
 Thus Phocion reason'd, and since none can tell,
 If the riches they leave shall be us'd ill or well,
 So, by praise-worthy actions, he gain'd a good name,
 And his wisdom and worth made immortal his fame.
 Tho' gold he neglected, he knew how to rise,
 And of honour and usefulness win the fair prize.
 By Philip, and by Alexander the Great,
 He was known and caref'd, tho' so humble his state.
 Whereas riches sure cause are of envy and strife,
 The banes of contentment, and an happy life.
 If we leave them our children, tho' we cannot tell,
 Yet, 'tis odds that they use them ill rather than well.
 They're so accessory to their own undoing,
 One would think that some young men in love were with
 ruin.

But hold! cry my readers, where is your wit flown;
 Who'll believe merry Robin is serious grown?
 To forsake his old subjects of eating and drinking,
 For dull tales, and morals requiring much thinking!
 We've enough had of this: let us laugh and be merry,
 This is worie than the old tune of derry down derry.
 Place balderdash nonsense enough now before us,
 All the world, never fear boy, will join in the chorus.
 For as to a moral and serious tale,
 Now mankind are so wise grown, it cannot avail.
 Rather give us a table spread out with rare dishes,
 That we laugh and enjoy may the loaves and the fishes.
 For, who ever wishes to sit all repining,
 Bewailing and falling, while others are dining?
 Remembering also good drink to our meat,
 We'll each morsel wash down well, that more we may eat.
 To the wisdom of this, I most aptly assent,
 And my company there to deny never meant:
 Nor wish to set poring and plaguing my brains,
 When I dine can for nothing; or, but for the pains

Of conveying my body where others are sitting,
 Nay, my seat there I'm fonder of taking than quitting,
 To a feast every day, boys, I'd much rather come,
 Than sit in my old elbow chair mop'd at home:
 And when folks are so good me to treat for my wit,
 To act like a chuil would be very unfit:
 And since nought in the world but my wits I've to trust to,
 Quite rightly them place, be attentive I must to.
 So of frequently kissing the cup with my lip,
 I a good opportunity seldom let slip.
 And I cannot but think I'm as fit for a teacher,
 As any new baptist, or methodist preacher.
 These are fond of good living, to shew folks a sample,
 Sure follow I cannot a better example:
 I'm not over apt to admire their long graces,
 But have no objection to sit in their places,
 When they're by a brother invited to dine,
 In return for their preachments and speeches divine.
 Own I must, to my sorrow, that I'm a sad finner,
 Yet love well, as they do, a charming good dinner.
 Tho' I imitate cannot their mystic grimaces,
 Nor, as I've said before, pull out long bible faces,
 As they all strive to skim off the cream of the jest,
 I affirm, I can do this, as well as the best;
 And that they've much objection, I never could see,
 When their bellies are full, to be merry like me.

With my book for the year eighty-eight I begun
 In this paper to speak, but I left off for fun:
 Yet, if you will search well it's preface, you'll see
 A remarkable sermon, recorded by me,
 Which I then lately heard had in one of my rambles,
 For I wander thro' hospitals, alleys, and shambles,
 About A, B, C, and the way to improve
 Every letter you learn, to corroborate your love.
 With my wife's complimentally true observation,
 Which made me as mute as most mice in the nation.
 This conventicle kept was by one Mr. Kitt,
 Who always to thump well his cushion thought fit;
 In order, that when words he wanted, no doubt,
 They might, with the dust, from his cushion fly out.
 And he thump'd to some purpose, and stamp'd out a store
 Of such phrases and words as were ne'er heard before.
 O my dear loving lady, if I should be laid
 On a sick bed, and have the right use of my head,
 To my life's persecution, my love, do not add,
 And in life many sore persecutions I've had;

That of sending for him, by my bedside to pray,
I should think it most cruel to live 'till that day.
So, my loving dear lady, mind what I've here said,
I in peace would depart, on my death-bed when laid.

But lest he be worn out, in taking such pains,
Ever thumping his cushion, and beating his brains,
To get some assistance, at times, he will try;
Such the Alphabet-Champion, of whom above
Have spoken. Nor let Mr. Martin be missed,
Whose head had a rare emblematical twist:
For the guts of a watch he well spiritualliz'd,
And as all understood him, his preaching was priz'd.
So that one Mr. Lee, to invite him thought fit,
To dine at his house with his friend Mr. Kitt;
Who was not a man that did ever incline
To sit peeping and pining while other folks dine;
But with platesful and platesful he well laid about him,
Resolving no dish should be empty'd without him,
While Martin sat 'piddling the leg of a rabbit,
Or the bones of a pidgeon, according to habit.

Which being observed by his host Mr. Lee,
He cries, Mr. Martin, I beg you'll make free;
Observe Mr. Kitt, take him for your sample,
You're welcome as he is, so mind his example.
Mr. Martin reply'd, my dear Sir, you must see
A vast difference, surely, between him and me.
A martin's a small bird, and feeds upon flies,
So that little and light meat it soon satisfies:
To stuff it too full would be very unfit,
But it takes a great deal to fill up a huge Kitt.

Now, lest he be laugh'd at for what is here said,
I beg you'll suppose Dickey Kitt long since dead,
Near SAFFRON WALDEN, POOR ROBINA
Aug. 20, 1798.

ECLIPSES.

As there will be only two ECLIPSES this year, both of the Sun, and both invisible here, it is not worth while to write much about what nobody wishes to know. For though those that sit up 'till past midnight on the 4th of May be up when the Sun is eclipsed, no one in Great Britain can see it. And the same may be said of those who are up betimes in the morning on the 28th of October; if they pore themselves blind they will never be able to see any thing: and as to the eclipse, it does not happen 'till after sun-set.

On the DIVISIONS and SEASONS of the YEAR.

THE most ancient and general division of the year is into two parts, *Summer* and *Winter*, the former beginning at the vernal, and the latter at the autumnal Equinox. But as the longest and shortest days divided each of these nearly into two equal parts, hence arose another division of the year into four Quarters; the first beginning when the Sun appeared to cross the equinoctial line, or circle, from the south to the north, which this year happens on the twentieth day of March, at 17 minutes past 2 in the afternoon; and ending on the longest day, when the Sun appears to reach his most northern boundary, which this year happens on the 21st day of June, at 3 minutes past noon. At this instant, the next Quarter begins, and continues 'till the Sun appears to cross the equinoctial line from north to south; which this year happens on the 23d day of September, at 49 minutes past one in the morning: when the next, or third Quarter begins, and continues 'till the Sun appears to have reached his most southern boundary, which this year happens on the 21st day of December, at 33 minutes past 6 in the afternoon: when the last Quarter begins, and continues till the following equinox.

But it is here proper to be observed and remembered, that these Quarters are called the Spring, Summer, Autumn, and Winter ones respectively, because each of them begins in those, or during those seasons of the year; and not, as is sometimes mistakingly supposed, because those seasons begin with the Quarters: which useful piece of knowledge, if you have now first learned, mind, and be thankful to Poor Robin for it.

The precise instant when each of these Four Seasons begin, not being, like the Quarters, distinctly marked by the heavenly bodies, Authors differ about it. The Spring begins according to the old table of an anonymous Author, on the 6th day of February; but according to Ovid. *Fastorum* 2, 150, not 'till the 9th; and according to Pliny, on the 8th. The Summer Season they suppose to begin on or about the 13th of May, Ovid. *Fast.* 5, 601. but the other classical Authors differ about it. The Autumn, or Harvest and Vintage Season, as I observed in my last year's profound performance, began on the 6th day of August, and lasted 'till the 6th day of November, which was reckon'd, therefore, the beginning of the Winter Season.

As to this uncertainty, and seeming irregularity of the continuance of the Seasons, it is to be observed, that we had our Kalendar from the ancient Romans, who, though they boasted themselves masters of the world, were far inferior to the eastern nations in the knowledge of the noble science of Astronomy.

Speculum Anni :

OR,

SEASON on the SEASONS,

For the Year of our LORD 1799 ;

BEING THE THIRD AFTER

BISSEXTILE, OR LEAP YEAR.

Wherein you will find all Things necessary for such a Work ; Sun and Moon's Rising and Setting ; Moon's Southing, Planets Places and Aspects, Eclipses, Judgments on the Weather, and Four Quarters ; Remarks about the Sun, Monthly Poetry, and other Novelties.

BY **HENRY SEASON,**

LICENSED PHYSICIAN,

And Student in the CELESTIAL SCIENCES, near DEVIZES.

With a particular Judgment of the ECLIPSES, &c.

*Omnis donatio bona, & omne integrum bonum
Est superne descendens à patre Luminum.*—JAC. I. 17.

GOD hath granted me to speak according to my Mind, and to judge worthily of the Things that are given me ; for he is the Leader unto Wisdom, and the Director of the Wise : How the Times alter, the Change of the Seasons, the Course of the Year, and the Situation of the Stars.

WISD. chap. vi. ver. 15, 19.

The sacred Fiat was no sooner nam'd,
But Heav'n with all its Hosts were fram'd
Phœbus display'd his fiery Car,
And Wisdom marshall'd ev'ry Star ;
Sev'n Worlds around the Sun did glide,
He gave their Light, and Motions guide ;
By secret, fix'd, attractive Laws,
They all confess th' Almighty Cause.

17 182 99

The AUTHOR'S Sixty-Sixth Impression.

LONDON,

Printed for the COMPANY of STATIONERS,

And sold by GEORGE GREENHILL, at their Hall, in Ludgate-Street.
Price SIXTEEN-PENCE, stitched.

The common Notes for the Year 1799.

The Golden Number - - 14	Shrove-Sunday - - Feb. 3
The Epact - - - - 23	Ash-Wednesday - - - 6
The Cycle of the Sun - - 16	Easter-Day - - Mar. 24
Dominical Letter - - - F	Whit-Sunday - - May 12
Roman Indiction - - - 2	Advent-Sunday - Dec. 1
Septuagesima Sunday Jan. 20	Sundays after Trinity - - 27

The 12 Signs.

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

The 7 Planets, and the Aspects.

☉ Sun
☾ Moon
♄ Saturn
♃ Jupiter
♂ Mars
♀ Venus
☿ Mercury
♋ Conjunction
* Sextile
□ Square
△ Trine
♁ Opposition

The four Quarters of the Year.

	d	h	m
Spring Quarter begins - - -	March 20	2	17 Aftern.
Summer Quarter begins - - -	June 21	0	3 Aftern.
Autumn Quarter begins - - -	Sept. 23	1	49 Morn.
Winter Quarter begins - - -	Dec. 21	6	23 Aftern.

Venus will be an Evening Star till October 16, and then a Morning Star for the rest of the Year.

Jupiter will be an Evening Star till May 30, then a Morning Star till Dec. 17, and after that an Evening Star for the rest of the Year.

KINGS and QUEENS.

3

A TABLE of the **KINGS** and **QUEENS** of England,
from the **CONQUEST** to the present Year 1799.

Names of Kings.	Born Ann.	When Began to reign.	Reign. Y. M.	Since their Reign ended.	Buried at
William 1	1029	1066, Octob. 14	20 11	712, Septem. 9	Caen, Nor.
William 2	1057	1087, Sept. 9	12 11	699, August 2	Winchest.
Henry 1	1068	1100, Aug. 2	35 4	664, Decemb. 1	Reading.
Stephen	1105	1135, Dec. 1	18 11	645, Octob. 25	Feverham

The Saxon Line Restored.

Henry 2	1133	1154, Oct. 25	34 8	610, July 6	Fontevr.
Richard 1	1156	1189, July 6	9 9	600, April 6	Fontevr.
John	1165	1199, April 6	17 6	583, Octob. 19	Worcester
Henry 3	1207	1216, Oct. 19	56 1	527, Nov. 16	Westmin.
Edward 1	1239	1272, Nov. 16	34 8	492, July 7	Westmin.
Edward 2	1284	1307, July 7	19 7	472, Jan. 25	Gloucester
Edward 3	1312	1327, Jan. 25	50 5	422, June 21	Westmin.
Richard 2	1366	1377, June 21	22 3	400, Sept. 29	Westmin.

The Line of Lancaster.

Henry 4	1367	1399, Sept. 29	13 6	386, March 20	Canterb.
Henry 5	1389	1413, Mar. 20	9 5	377, August 31	Westmin.
Henry 6	1421	1422, Aug. 31	38 6	338, March 4	Windfor

The Line of York.

Edward 4	1442	1461, Mar. 4	22 1	316, April 9	Windfor
Edward 5	1471	1483, April 9	0 2	316, June 22	Unknown
Richard 3	1442	1483, June 22	2 2	314, August 22	Leicester

The Families United.

Henry 7	1456	1485, Aug. 22	23 8	290, April 22	Westmin.
Henry 8	1492	1509, April 22	37 9	252, Jan. 28	Windfor
Edward 6	1537	1547, Jan. 28	6 5	246, July 6	Westmin.
Qu. Mary	1516	1553, July 6	5 4	241, Nov. 17	Westmin.
Qu. Eliz.	1533	1558, Nov. 17	44 4	196, March 24	Westmin.

The Union of the Two Crowns.

James 1	1566	1603, Mar. 24	22 0	174, March 27	Westmin.
Charles 1	1600	1625, Mar. 27	23 10	150, Jan. 30	Windfor
Charles 2	1630	1649, Jan. 30	36 0	114, Feb. 6	Westmin.
James 2	1633	1685, Feb. 6	4 0	110, Feb. 13	S. Germain
Will. & Mary	1650	1689, Feb. 13	13 1	97, March 8	Westmin.

The Union of the Two Kingdoms.

Qu. Anne	1665	1702, Mar. 8	12 5	85, August 1	Westmin.
George 1	1660	1714, Aug. 1	12 10	72, June 11	Hanover
George 2	1683	1727, June 11	33 4	39, Oct. 25	Westmin.
George 3	1738	1760, Oct. 25	25	Crowned Sept. 22, 1761.	

A TABLE OF TERMS AND THEIR RETURNS.

Hilary Term begins January 23, ends February 12.

Returns or Effoign Days	—	—	E	R	A	W.D.
In eight Days of St. Hilary	—	Jan. 20	21	22	23	Wedn.
In 15 Days of St. Hilary	—	—	27	28	29	30 Wedn.
On the Mor. of the Purificat. of B. V. M.	Feb. 3	—	4	5	6	Wedn.
In eight Days of the Purificat. of B. V. M.	—	—	9	10	11	12 Tuesd.

Easter Term begins April 10, ends May 6.

In 15 Days after Easter	—	April 7	8	9	10	Wedn.
From Easter in 3 Weeks	—	—	14	15	16	17 Wedn.
From Easter in 1 Month	—	—	21	22	23	24 Wedn.
From Easter in 5 Weeks	—	—	28	29	30	1 Wedn.
On the Morrow of the Ascension-Day,	May 3	—	4	5	6	Mondd.

Trinity Term begins May 24, ends June 12.

On the Morrow of the Holy Trinity	—	May 20	21	22	24	Frid.
In eight Days of the Holy Trinity	—	—	26	27	28	29 Wed.
In 15 Days of the Holy Trinity	—	June 2	3	4	5	Wed.
From Day of Holy Trinity in 3 Weeks	—	—	9	10	11	12 Wed.

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 Frid.
In eight Days of St. Martin	—	—	18	19	20	21 Thurs.
In 15 Days of St. Martin	—	—	25	26	27	28 Thurs.

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

A CATALOGUE of the Most Reverend, Right Reverend, and Reverend, the Archbishops, Bishops and Deans, exercising Ecclesiastical Jurisdiction in England, 1799.

<i>Archbishops.</i>	<i>Deans' Names.</i>	<i>Names of the Sees.</i>
Dr. John Moore	Dr. Powys	Canterbury
Dr. Wm. Markham	Dr. John Fountayne	York
<i>Bishops.</i>		
Dr. Beilby Porteus	Bp. of Lincoln	London
Hon. Shute Barrington	Bp. of Litchfield & Coy.	Durham
Hon. D. Brownl. North	Dr. Newton Ogle	Winchester
Dr. Buckner	Mr. Combe Millar	Chichester
Dr. Charles Moss	Lord Francis Seymour	Bath and Wells
Dr. John Douglas	Dr. John Ekins	Salisbury
Dr. Spencer Madan	Dr. Thomas Kipling	Peterborough
Hon. Dr. James Yorke	Dr. William Pearce	Ely
Dr. Sam. Horsley	Dr. Thomas Dampier	Rocheſter
Dr. Richard Hurd	Ho. St. Andrew St. John	Worceſter
Dr. John Butler	Dr. Nat. Wetherell	Hereford
Dr. John Warren	Dr. Thomas Lloyd	Bangor
Hon. Dr. Ja. Cornwallis	Dr. Baptiſt Proby	Litchfield and Coventry
Dr. Lewis Bagot	Mr. W. D. Shipley	St. Aſaph
Dr. Richard Watſon	Dr. Robert Price, <i>Prec.</i>	Llandaff
Dr. Edward Smalwell	Dr. Cyril Jackſon	Oxford
Dr. Cornwall	Dr. John Hallam	Briſtol
Dr. George Pretyman	Sir Richard Kaye, Bart.	Lincoln
Dr. E. Venables Vernon	Dr. Iſaac Milner	Carlisle
Dr. Wm. Cleaver	Dr. George Cotton	Cheſter
Hon. Dr. Stuart	Mr. F. Wollaſton, <i>Prec.</i>	St. David's
Dr. Richard Beadon	Dr. Joſiah Tucker	Glouceſter
Dr. C. Manners Sutton	Dr. Joſeph Turner	Norwich
Dr. Courtenay	Dr. Charles Harward	Exeter
	Bp. of Rocheſter	Westmiſter
	Bp. of Norwich	Windſor
Dr. Claud Crigan		Sodor and Man

The Names of the Learned Judges in the Law.

Rt. Hon. Al. Lord Loughborough,	Lord High Chancellor of Great Britain.
Sir Rich. Pepper Arden,	Knt. Maſter of the Rolls.
Sir John Scott,	Knt. Attor. Gen. Sir John Mitford, Knt. Sol. Gen.
II. In the K. Bench.	{ Rt. Hon. Lord Kenyon, L. C. J. Sir N. Groſe, Knt.
	{ Sir Wm. Henry Aſhhurſt, Knt. Soulden Lawrence, Eſq;
III. In the Co. Pleas.	{ Rt. Hon. Sir J. Eyre, Knt. C. J. C. P. John Heath, Eſq;
	{ ——— Rooke, Eſq; Sir Fr. Bailer, Bart.
IV. In the Exchequer.	{ Sir A. M'Donald, Knt. L. C. B. Sir Rich. Perryn, Knt.
	{ Sir Beaumont Hoſham, Knt. Sir Alex. Thompſon, Knt.

A TABLE shewing the Moon's Southing for Farmers and others that breed Cattle, but men and others that sail upon the Waters.

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

all the Months of the Year, very necessary for all especially and more worthy of Notice to Sea-

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

New Moon the 6th day, at 4 in the morning.
 First Quarter the 14th day, at 4 in the morning.
 Full Moon the 21st day, at 6 in the afternoon.
 Last Quarter the 28th day, at 11 in the morning.

1 24 17
 6 23 16
 11 23 16
 16 22 D
 21 22 17
 26 22 17

M	W	Remarkable	☉	☽ Lon.	☽ rises	♂	♀	♃	Mut. Aspects
D	D	Days, &c.	☿	gitude	& sets	☿	♃	♃	and Weather
1	T	Circumcision	11	12m 19	2 m 40	11	12	R	Fine temper-
2	W		12	26 12	4 3	11	13	28	ate weather
3	T		13	9 57	5 28	12	14	28	begins the
4	F		14	23 34	6 48	13	15	28	Δ 4 ♀
5	S	Old Christ. d.	15	6 59	7 55	13	17	27	new year.
6	F	Epiph. 12 day	16	20 12	fets	14	18	27	Δ ○ 4
7	M	Plow Mond.	17	3 10	5 a 8	14	19	26	
8	T	Lucian	18	15 52	6 20	15	20	25	Frost
9	W		19	28 18	7 35	16	22	24	8 h ♀, 6 ♀ ♀
10	T		20	10 31	8 46	16	23	22	6 ○ ♀, 8 h ♀
11	F		21	22 31	9 56	17	24	21	and snow
12	S	Old N.Y. day	22	4 24	11 5	17	25	20	8 ○ h
13	F	S. Ep. Hil.	23	Ca. T. b	morn	18	27	18	□ δ ♀
14	M	Oxford T. be.	24	28 4	0 12	19	28	17	Δ 4 ♀
15	T		25	10 8	1 23	19	29	16	may now be
16	W		26	22 13	2 35	20	30	15	expected.
17	T	Old 12th day	28	4 42	3 50	20	2 14		
18	F	Q. Ch. b. d. k.	29	17 31	5 3	21	3 14		
19	S	[Prisca	30	0 45	6 16	22	4 13		□ h δ
20	F	Sept. Fab.	1	14 24	7 17	22	6 13		Cloudy, dull
21	M	Agnes	2	28 26	rises	23	7 12		weather.
22	T	Vincent	3	12 46	5 a 5	24	8 D		
23	W	Term begins	4	27 19	6 32	24	9 12		
24	T		5	11 57	8 3	25	11 12		
25	F	Conv. St. Paul	6	26 32	9 28	25	12 13		
26	S		7	11 0	10 53	26	13 13		Seasonable
27	F	Sexag. S. Pr.	8	25 16	morn	27	14 14		weather, and
28	M	[Aug. Fr. b.	9	9 18	0 19	27	16 14		not much
29	T		10	23 7	1 43	28	17 15		□ 4 ♀
30	W	K. Ch. J. mar.	11	6 42	3 8	29	18 16		downfall.
31	T		12	20 5	4 26	29	19 16		

SEASON.

JANUARY, 1799.

Occurrences, foretold like Weather,
Shall wisely pass for Truth together :
The ruling Stars will shew their Force,
And cast a Lady from her Horse.
Another, of a great Estate,
This Month shall prove unfortunate.

M Orites, O sets
D h m h m

OBSERVATIONS.

1 8 5 3 5 5 Of the WISDOM of GOD in his WORKS ;
2 8 4 3 5 6 Continued from our last.

On the TAILS of COMETS.

THE book under examination is Dr. Priestley's History of Electricity: Signior Beccaria has, with great ingenuity, mixed sometimes with a little spice of peccable extravagance, the frequent concomitant of genius, ranged almost all the meteoric phenomena under the banners of electricity; from the *Will-o'-th'-Wisp* to the *Aurora Borealis*. Had we room or inclination to theorise on this subject, at the same time that, with other electricians, we allowed the electric fluid to be the cause of this last phenomenon, we should be for extending its connection still further, and attempt to shew the possibility, at least, of its near relation to, if not its identity with, that luminous matter which forms the solar atmosphere, and produces the phenomenon called the *Zodiacal Light*; which is thrown off principally, and to the greatest distance from the equatorial parts of the Sun, in consequence of his rotation on his axis,

10 FEBRUARY xxviii Days.

M | h | 24
D | 25 | 8

New Moon the 4th day, at 8 at night.

First Quarter the 13th day, at 1 in the morning.

Full Moon the 20th day, at 5 in the morning.

Last Quarter the 26th day, at 8 at night.

1 | 21 | 17
6 | 21 | 18
11 | 20 | 18
16 | 20 | 19
21 | 20 | 19
26 | 20 | 20

M	W	Remarkable	☉	Longitude	☽ rises	♂	♀	☿	Mut. Aspects
D	D	Days, &c.	☿		& sets	☿	♂	♀	and Weather.
1	F		13	3 ^h 18	5 ^m 37	30	21	17	△ 2 ♀
2	S	Pur. or Candi.	14	16 19	6 36	8	22	18	
3	F	Shro. S. Blafe	15	29 10	7 26	1	23	19	Cold winds,
4	M		16	11 ^h 50	sets	2	24	20	8 h ♀
5	T	Shr. T. Agath.	17	24 18	5 ^a 12	2	26	21	with some
6	W	Ash Wednesd.	18	6 ^h 35	6 24	3	27	22	☐ ☉ 24
7	T		19	18 41	7 36	4	28	23	frosts.
8	F		20	0 ^h 38	8 46	4	29	25	
9	S		21	12 29	9 53	5	30	26	
10	F	2^d S. in Lent	22	24 16	11 3	5	2	27	Temperate,
11	M		23	6 8 5	morn	6	3	28	and more
12	T	Term ends	24	18 0	0 13	7	4	29	open.
13	W	Emb. W. Old	25	0 ^h 8	1 26	7	6	1	
14	T	Valent. [Can.	26	12 33	2 40	8	7	2	
15	F		27	25 20	3 51	9	8	4	* ♂ ♀
16	S		28	8 ^h 35	4 58	9	9	5	Cold winds
17	F	2^d S. in Lent	29	22 18	5 53	10	11	6	begin to
18	M		30	6 ^h 29	6 36	10	12	8	blow.
19	T		1	21 5	7 6	11	13	9	
20	W		2	5 ^m 58	rises	12	14	11	
21	T		3	21 0	7 ^a 1	12	16	12	☐ ♂ ♀
22	F		4	6 ^h 1	8 31	13	17	14	Some snow,
23	S	[chias	5	20 52	9 59	14	18	15	or rain,
24	F	3^d S. Lt. Mat-	6	5 ^m 26	11 29	14	19	17	* h 24, Δ h ♀,
25	M	[Pr. A. F. b.	7	19 40	morn	15	21	18	[* 24 ♀
26	T		8	3 ^h 33	0 56	15	22	20	☐ 24 ♀
27	W		9	17 6	2 19	16	23	21	near the end.
28	T		10	0 ^h 20	3 34	17	24	23	

Ships shall be heard of, cast away,
 And many Lives be lost at Sea;
 A Widow shall a Stranger wed,
 And a young Wife be brought to Bed:
 But, by the Moon looking so horn'd,
 A Husband's Head shall be adorn'd.

M	rises		sets		OBSERVATIONS.
	D	h m	h	m	
	17	27 4	33		<p>axis, extending visibly, in the form of a luminous pyramid, as far as the orbit of the Earth; and which, according to <i>M. de Mairan's</i> ingenious, and, at least, plausible hypothesis, falling into the upper regions of our atmosphere, is collected chiefly towards the polar parts of the Earth, in consequence of the diurnal revolutions, where it forms the <i>Aurora Borealis</i>. It would, we think, be no very bad hypothesis which should unite these two opinions, by considering the SUN as the fountain of the electric fluid, and the <i>zodiacal light, the tails of comets, the Aurora Borealis, lightning,</i> and artificial electricity, as its various, and not very dissimilar modifications. Indeed the appearances of the tail of a Comet resemble electrical coruscations, more than any thing of which we have an idea, but mostly that produced <i>in vacuo</i>; as the flame seems, through a telescope, perpetually to shoot out in straight lines, of a pale silver hue, lengthening and shortening at each instant, and forming frequently some of the configurations which the <i>Aurora Borealis</i> assumes. There has been</p>
	27	25 4	35		
F	7	23 4	37		
	47	22 4	38		
	57	20 4	40		
	67	18 4	42		
	77	16 4	44		
	87	14 4	46		
	97	13 4	47		
F	7	11 4	49		
	117	9 4	51		
	127	7 4	53		
	137	5 4	55		
	147	3 4	57		
	157	1 4	59		
	167	0 5	0		
F	6	58 5	2		
	186	56 5	4		
	196	54 5	6		
	206	52 5	8		
	216	50 5	10		
	226	48 5	12		
	236	46 5	14		
F	6	44 5	16		
	256	42 5	18		
	266	40 5	20		
	276	38 5	22		
	286	36 5	24		

New Moon the 6th day, at 2 in the afternoon.

First Quarter the 14th day, at 6 in the afternoon.

Full Moon the 21st day, at 3 in the afternoon.

Last Quarter the 28th day, at 8 in the morning.

1 20 20
6 19 21
11 19 22
16 19 23
21 D 24
26 19 25

M	W	Remarkable	☉	☽	☽	♂	♀	♃	Mut. Aspects
D	D	Days, &c.	☾	Longitude	& sets	☾	☾	☾	and Weather
1	F	David	11	13 ^h 17	4m 36	17	26	25	
2	S	Chad.	12	26 2	5 24	18	27	26	Windy, and
3	F	Mid-Lent S.	13	8 ^m 34	5 56	19	28	28	unsettled.
4	M		14	20 57	6 21	19	29	☾	* ♀ ♂
5	T		15	3 ^m 10	6 40	20	☽	1	weather.
6	W		16	15 15	sets	21	2	3	
7	T	Perpetua	17	27 13	6a 36	21	3	5	♂ ♀ ♂
8	F		18	9 ^m 5	7 46	22	4	6	Rain this
9	S		19	20 53	8 54	22	6	8	Δ ☉ ♀ week
10	F	5 S. in Lent	20	2 8 40	10 5	23	7	10	you need not
11	M		21	14 29	11 18	24	8	12	seek.
12	T	Gregory	22	26 25	morn	24	9	14	* ☉ ♀
13	W		23	8 ^m 31	0 30	25	10	15	
14	T		24	20 53	1 42	26	12	17	March winds,
15	F	Cam. T. ends	25	13 ^m 35	2 51	26	13	19	Δ ♀ ☽
16	S	Oxf. T. ends	26	16 44	3 48	27	14	21	high and
17	F	Palm S. Patr.	27	0 ^m 21	4 34	28	15	23	* ♀ ☽
18	M	[Ed. K. W. S.]	28	14 28	5 10	28	17	25	dry.
19	T		29	29 2	5 35	29	18	27	* ☉ ♂
20	W	[Thurs.]	☽	3 ^m 59	5 56	29	19	29	☐ ♀, * ♂ ♀
21	T	Bened. Maun.	1	29 11	rises	☽	20	☽	♂ ☉ ☽
22	F	Good Friday	2	14 ^m 26	7 a 33	1	22	3	Some wet,
23	S		3	29 35	9 6	1	23	5	with storms,
24	F	Easter day	4	14 ^m 28	10 39	2	24	7	now about.
25	M	Lady d. Easter	5	28 59	morn	3	25	9	
26	T	East. T. [Mo.]	6	13 ^m 6	0 8	3	27	11	
27	W		7	26 47	1 30	4	28	13	Small frosts.
28	F		8	10 ^m 3	2 38	5	29	15	
29	T		9	22 59	3 31	5	8	17	
30	S		10	5 ^m 36	4 9	6	1	19	☐ ♀ ☽
31	F	Low Sunday.	11	17 59	4 35	6	3	21	

A Lady who had lost her Lover,
 This Month shall him again recover;
 The Stars discover an Intrigue
 Of some beginning a new League,
 Who shall be mutually elated,
 Till their Desire be quite completed.

M	☉ rises	☉ sets
D	h m	h m

OBSERVATIONS.

16	34	5	26	<p>been lately published a work by Dr. <i>Hamilton</i>, of <i>Dublin</i>, under the title of <i>Philosophical Essays</i>; in which this idea seems extremely well developed. The subject and substance of the Doctor's second essay is so full to our purpose, that we shall condense it into an epitome, and present it to our readers—Dr. <i>Hamilton's</i> essay has for its title, "Observations and Conjectures on the nature of the <i>Aurora Borealis</i>, and the <i>Tails of Comets</i>." The author differs from Sir <i>Isaac Newton</i> concerning the nature of the tails of Comets; and endeavours to prove that they are composed of a lucid, or self-shining substance, and not a mere cloud or vapour, illuminated only by the Sun. This luminous matter he supposes to be the same with that which causes the <i>Aurora Borealis</i>, and the phenomena of electricity. The great body of luminous matter which appears in an <i>Aurora Borealis</i>, says this author, being so very extensive, and sometimes so very bright, must be visible to a spectator at a considerable distance from the Earth, and shaded from the Sun's light; and such a spectator would then see the Earth attended by a train of light in the form of a tail, &c.</p> <p style="text-align: right;"><i>Electric</i></p>
26	32	5	28	
F 6	30	5	30	
46	29	5	31	
56	27	5	33	
66	25	5	35	
76	23	5	37	
86	21	5	39	
96	19	5	41	
F 6	17	5	43	
116	15	5	45	
126	13	5	47	
136	11	5	49	
146	9	5	51	
156	7	5	53	
166	5	5	55	
F 6	3	5	57	
186	1	5	59	
195	59	6	1	
205	57	6	3	
215	55	6	5	
225	53	6	7	
235	51	6	9	
F 5	49	6	11	
255	47	6	13	
265	45	6	15	
275	43	6	17	
285	41	6	19	
295	39	6	21	
305	37	6	23	
F 5	35	6	25	

New Moon the 5th day, at 7 in the morning.

First Quarter the 13th day, at 8 in the morning.

Full Moon the 19th day, at midnight.

Last Quarter the 26th day, at 9 at night.

1	19	26
6	19	27
11	20	28
16	20	29
21	20	30
26	20	31

M	W	Remarkable	☉	☽	Longitude	Rises & sets	♂	♀	☿	Mut. Aspects and Weather	
D	D	Days, &c.	☿	♁	☽	☽	♂	♀	☿		
1	M		12	0	10	4m46	7	4	23		
2	T	[& Ca. T. b.	13	12	12	5 11	8	5	25	Wetish,	
3	W	Richard. Ox.	14	24	8	5 23	8	6	27	changeable	
4	T	Ambrose	15	5	59	5 35	9	8	29	weather.	
5	F	Old Lady day	16	17	48	sets	10	9	8		
6	S		17	29	36	8 a. 0	10	10	2		
7	F	2 S. aft. Easter	18	11	8	25	9	12	11	4	Some cold
8	M		19	23	19	10 28	11	12	6	winds	
9	T		20	5	19	11 42	12	14	7	☉ ☽	
10	W	Term begins	21	17	30	morn	13	15	9	about this	
11	T		22	29	54	0 50	13	16	10	time.	
12	F		23	12	37	1 51	14	17	12		
13	S		24	25	41	2 40	15	19	13		
14	F	3 S. aft. Easter	25	9	11	3 18	15	20	14	* ♀	
15	M		25	23	6	3 44	16	21	15	Fine for the	
16	T		26	7	29	4 7	17	22	16	season.	
17	W		27	22	14	4 26	17	23	17		
18	T		28	7	24	4 41	18	25	18		
19	F	Alphege	29	22	29	rises	18	26	19		
20	S		8	7	40	8 a 10	19	27	19	Windy now	
21	F	4 S. af. Easter	1	22	41	9 46	20	28	20	* ♀	
22	M		2	7	24	11 14	20	21	20	♂ ♀	
23	T	St. George.	3	21	43	morn	21	21	21	about.	
24	W		4	5	35	0 32	22	22	21		
25	T	St. Mark, Prs	5	19	1	1 34	22	3	21		
26	F	[Ma. b.	6	2	2	2 17	23	4	21		
27	S		7	14	41	2 47	23	6	21	Showers	
28	F	Regation 2.	8	27	2	3 9	24	7	21	near the	
29	M		9	9	9	3 25	25	8	21	* ♀	
30	T		10	21	6	3 39	25	9	20	end.	

This Month, poor Miss shall crack her China,
 And Maiden-Hearts be touch'd by many;
 A Monkey shall be taken sick,
 And little Dear forbear to lick;
 But Doctors, of good Skill and Parts,
 Shall heal their Wounds, and ease their Hearts.

M^{rises} ○ ○
 D h m h m

OBSERVATIONS.

1	5	33	6	27	<i>Electric matter appears to be of the same kind of substance which forms the Aurora Borealis, and the tails of Comets; by its having also that remarkable property of letting the rays of light pass through it, without having any sort of effect upon them.—Now the extraordinary rarity of Comets' tails may be collected, says Sir Isaac Newton, from the Stars shining through them; for the smallest Stars are observed to shine without loss of splendour through tails which are of an immense thickness.—Dr. Hamilton has given to Comets a quite different employment from that allotted to them by Sir Isaac Newton, who made them water-carriers, loading them with vapours and moisture, to supply the losses of the several parts of the solar system through which they were destined to pass. But the Doctor, on the contrary, supposes it their business to collect and bring back to the Sun and Planets the electric fluid which is constantly flying off into the higher regions of the heavens, beyond the orbit of Saturn.—We see this fluid rises from the earth into the atmosphere, and is probably going off from thence, when it appears in the Aurora Borealis.</i>
2	5	31	6	29	
3	5	29	6	31	
4	5	27	6	33	
5	5	25	6	35	
6	5	23	6	37	
F	5	21	6	39	
8	5	19	6	41	
9	5	17	6	43	
10	5	16	6	44	
11	5	14	6	46	
12	5	12	6	48	
13	5	10	6	50	
F	5	8	6	52	
15	5	6	6	54	
16	5	4	6	56	
17	5	2	6	58	
18	5	0	7	0	
19	4	58	7	2	
20	4	57	7	3	
F	4	55	7	5	
22	4	53	7	7	
23	4	51	7	9	
24	4	49	7	11	
25	4	47	7	13	
26	4	45	7	15	
27	4	44	7	16	
F	4	42	7	18	
29	4	40	7	20	
30	4	38	7	22	

New Moon the 4th day, at midnight.

First Quarter the 12th day, at 5 in the afternoon.

Full Moon the 19th day, at 8 in the morning.

Last Quarter the 26th day, at 11 in the morning.

M	W	Remarkable	☉	☽ lon-	☽ rises	♂	♀	♃	Mut. Aspects
D	D	Days, &c.	8	gitude	& sets.	11	11	8	and Weather
1	W	St. Phil. & J.	11	2 27 56	3 m 51	26	10	20	
2	T	Afc. Holy Th.	12	14 44	4 1	27	12	20	Cold winds
3	F	Inv. of Crofs	13	26 32	4 13	27	13	19	snow about.
4	S		14	18 8 23	fets	28	14	19	
5	F	S. after Afc.	15	20 19	8 a 23	29	15	18	
6	M	John Evang.	16	2 11 21	9 35	29	16	17	
7	T	[Term ends	17	14 33	10 46	30	18	17	♁ ☉ ♃
8	W		18	26 55	11 50	0	19	16	
9	T	Oxf. T. ends	19	9 31	morn	1	20	16	Some showers,
10	F		20	22 22	0 43	2	21	15	but fine for
11	S	[May day	21	5 30	1 23	2	22	15	the season.
12	F	W it S. Old	22	18 58	1 53	3	24	14	* ☉ ♃
13	M	Whit Mond.	23	2 46	2 16	4	25	13	
14	T	Whit Tuesd.	24	16 54	2 34	4	26	13	
15	W	Ember Week	25	1 22	2 49	5	27	13	
16	T		26	16 5	3 4	5	28	12	
17	F	Prs. Wales b.	27	0 m 59	3 19	6	28	12	Weather
18	S		27	15 56	3 36	7	1	12	rather cool.
19	F	Trinity Sund.	28	Dunf.	rises	7	2	12	
20	M	[Q. Ch. b. d.	29	15 29	10 a 9	8	3	D	
21	T		29	29 51	11 20	9	4	12	
22	W	Prs. Elisab. b.	1	13 49	morn	9	6	12	<i>Ox. T. begins.</i>
23	T	Corpus Chrisf.	2	27 21	0 12	10	7	12	
24	F	Term begins	3	10 28	0 49	11	8	12	
25	S		4	23 11	1 14	11	9	13	Frequent
26	F	1 S. Tr. Aug.	5	5 34	1 32	12	10	13	showers near
27	M	Ven. Bede	6	17 42	1 46	12	11	14	the end of
28	T		7	29 38	1 59	13	13	14	♁ ♂ ♀
29	W	K. Ch. II. ref	8	11 28	2 10	14	14	15	the month.
30	T		9	23 15	2 20	14	15	16	♁ ☉ ♃
31	F		10	5 8 5	2 33	15	16	16	* ♀ ♃

Strephon, this Month, shall be forsworn,
 And Celia merit Damon's scorn.
 A Person shall a Journey go,
 Another shall detect his Foe :
 But, by the Omens of the Sky,
 Dangers to some are very nigh.

M ☉ rises ☉ sets
 D h m h m

OBSERVATIONS.

M	☉ rises	☉ sets	
D	h	m	h
1	4	37	23
2	4	35	25
3	4	33	27
4	4	31	29
F 4	4	30	30
6	4	28	32
7	4	26	34
8	4	25	35
9	4	23	37
10	4	21	39
11	4	20	40
F 4	4	18	42
13	4	17	43
14	4	15	45
15	4	14	46
16	4	12	48
17	4	11	49
18	4	9	51
F 4	4	8	52
20	4	7	53
21	4	5	55
22	4	4	56
23	4	3	57
24	4	2	59
25	4	0	0
F 3	3	59	1
27	3	58	2
28	3	57	3
9	3	56	4
0	3	55	5
1	3	54	6

Borealis. And as this electric matter, from its vast subtilty and velocity, seems capable of making great excursions from the planetary system, the several Comets in their long excursions from the Sun, in all directions, may overtake this matter, and, attracting it to themselves, may come back replete with it; and, being again heated and excited by the Sun, may discharge and disperse it among the planets, and so keep up a circulation of this matter, which we have reason to think necessary in our system.—This does not seem far from Sir *Isaac Newton's* own opinion; for, after supposing that the aqueous particles thrown off from Comets are taken up by the planets, as a supply of moisture, he adds, “ I suspect, moreover, that that spirit which is the least, but the most subtile, and the best part of our air, and is necessary for supporting the life of all things, comes chiefly from the Comets.” *Dr. Halley*, so long since as the year 1716, in his description of a remarkable *Aurora Borealis*, says, that the great streams of light so much resemble the tails of Comets, that, at first sight, they might well be taken for such; and afterwards adds, “ This light seems to have

New Moon the 3d day, at 3 in the afternoon.

First Quarter the 10th day, at 11 at night.

Full Moon the 17th day, at 4 in the afternoon.

Last Quarter the 25th day, at 3 in the morning.

M	W	Remarkable	☉	☽ Lon-	☽ rises	♂	♀	☿	Mut. Aspects		
D	D	Days, &c.	II	gitude	& sets	☉	☉	♄	and Weather		
1	S	Nicomede	11	17 8	1	2m	45	16	17	17	
2	F	2 S. aft. Trin.	12	29	5	3	3	16	18	18	Warm wea-
3	M		13	11 II	20	sets	17	20	19	19	ther now
4	T	K. Geo. III. b.	14	23	48	9 a	42	17	21	20	about, and
5	W	Pr. Ern. Aug.	15	6 25	28	10	39	18	22	21	perhaps
6	T	[Boniface	16	19	23	11	22	19	23	22	♂ ♀
7	F		17	2	31	11	56	19	24	23	* ♀
8	S		18	15	53	morn	20	25	24	24	thunder.
9	F	3 S. aft. Trin.	19	29	28	0	19	21	27	26	
10	M		20	13	17	0	38	21	28	27	
11	T	St. Barnabas	20	27	19	0	53	22	29	28	Fair and
12	W	Term ends	21	11	32	1	7	22	30	28	hot about
13	T		22	25	55	1	21	23	1	1	this time.
14	F		23	10	26	1	37	24	2	3	
15	S		24	24	59	1	56	24	4	4	
16	F	4 S. af. Trin.	25	9	31	2	20	25	5	6	♂ ♀
17	M	St. Alban	26	23	55	rises	26	6	8		
18	T		27	8	5	9 a	55	26	7	9	Some thun-
19	W		28	21	57	10	40	27	8	11	der showers
20	T	Tr. Ed. K. W.S.	29	5	27	11	10	27	9	13	♂ ♀
21	F	Longest day	25	18	34	11	31	28	10	15	now about.
22	S		1	1	19	11	48	29	12	17	
23	F	5 S. af. Trin.	2	13	43	morn	29	13	19		
24	M	Nat. J. Bapt.	3	25	52	0	0	14	21	21	Cooling
25	T	[Midf.	4	7	49	0	12	15	23	23	* ♀
26	W		5	19	39	0	23	16	25	25	gales of
27	T		6	1	28	0	34	2	17	27	wind.
28	F		7	13	20	0	47	2	18	29	
29	S	St. Peter	8	25	21	1	3	3	19	25	Showers.
30	F	6 S. aft. Trin.	9	7	33	1	23	4	21	3	

By th' Aspect of a Constellation,
 A Fire shall happen in this Nation ;
 Many shall die of their Diseases ;
 And some, at Court, shall lose their Places.
 And (by the Tail of Urfa Major)
 Some of the bad will still grow pajor.

M ☉ rises ☉ sets
 D h m h m

OBSERVATIONS.

M	☉ rises	☉ sets	
D	h	m	
1	3	53	8
F	3	52	8
3	3	51	8
4	3	50	8
5	3	49	8
6	3	49	8
7	3	48	8
8	3	47	8
F	3	47	8
10	3	46	8
11	3	45	8
12	3	45	8
13	3	44	8
14	3	44	8
15	3	44	8
F	3	44	8
17	3	43	8
18	3	43	8
19	3	43	8
20	3	43	8
21	3	43	8
22	3	43	8
F	3	43	8
24	3	43	8
25	3	43	8
26	3	44	8
27	3	44	8
28	3	44	8
29	3	44	8
F	3	45	8
			15

have a great affinity to that which the
 effluvia of electric bodies emit in the
 dark." This was the Doctor's conjecture ;
 but both he, and Sir *Isaac Newton*, had so
 much of vaticination in all they said, that
 their conjectures are found by posterity to
 be little less than certainties.—Thus much
 for the tails of Comets.

The Nature of COMETS.

In respect to the nature of Comets, Sir
Isaac Newton observes (as well as others
 since, that they must be solid bodies, like
 the planets ; for, if they were nothing but
 vapours, they must be dissipated when they
 come near the Sun ; for the Comet in
 1680, when it was in its perihelion, was
 less distant from the Sun than one-sixth of
 the Sun's diameter ; consequently the heat
 of the Comet at that time was to the heat
 of the summer Sun as 28000 to 1. But
 the heat of boiling water is about three
 times greater than the heat which dry
 earth acquires from the summer Sun ; and
 the heat of red hot iron about three or four
 times greater than the heat of boiling
 water. Therefore the heat of dry earth at
 the Comet, when in its perihelion, was
 about

New Moon the 3d day, at 3 in the morning.
First Quarter the 10th day, at 4 in the morning.
Full Moon the 17th day, at 1 in the morning.
Last Quarter the 24th day, at 9 at night.

1 27 16
6 28 17
11 28 19
16 29 20
21 30 21
26 31 22

M	W	Remarkable	☉	lon-	D rises	♂	♀	☿	Mut. Aspects
D	D	Days, &c.	☽	gitude	& sets	Ω	Ω	☽	and Weather
1	M		10	20 II 1	1 m 50	4	22	5	
2	T	Visit. Cam. C.	10	2 ☽ 45	2 29	5	23	8	Fine, for the
3	W	Dog days be.	11	15 46	sets	6	24	10	hay harvest.
4	T	Tra. St. Mart.	12	29 4	9 a 52	6	25	12	♁ ☉ ☿
5	F	Cam. T. ends	13	12 Ω 36	10 17	7	26	14	
6	S	[Old Midf.	14	26 20	10 38	8	27	16	
7	F	7 S. Tr. Tho.	15	10 ☿ 13	10 54	8	28	18	
8	M	Ox. A. [à Bec.	16	24 12	11 9	9	29	21	
9	T		17	8 17	11 22	9	☿ 23	23	Fair and hot
10	W		18	22 24	11 37	10	2 24	24	about
11	T		19	6 ☿ 34	11 55	11	3 27	27	♁ ♃ ☿
12	F		20	20 45	morn	11	4 29	29	this time.
13	S	Oxf. T. ends	21	4 ♄ 54	0 15	12	5 Ω		
14	F	8 S. af. Tr	22	19 1	0 45	13	6 3		
15	M	Swithin	23	3 ♃ 0	1 28	13	7 5	5	Windy, but
16	T		24	16 49	2 25	14	8 7	7	not bad
17	W		25	0 ☽ 24	rises	14	9 9	9	weather.
18	T		26	13 42	9 a 37	15	10 10		
19	F		27	26 41	9 47	16	11 12		
20	S	Margaret	28	9 ☿ 20	10 2	16	12 14		
21	F	9 S. af. Trin	29	21 43	10 14	17	14 16		Wind and
22	M	Magdalen	Ω	3 ♃ 50	10 25	18	15 17	17	♁ ☉ ♃, ♁ ♃ ☿
23	T		1	15 46	10 37	18	16 19	19	rain, if not
24	W		1	27 36	10 48	19	17 21	21	* ♃ ☿
25	T	St. James	2	9 24	11 2	19	18 23	23	thunder,
26	F	St. Anne	3	21 18	11 20	20	19 24	24	about this
27	S		4	3 II 21	11 45	21	20 26	26	time.
28	F	10 S. af. Trin	5	15 39	morn	21	21 27		
29	M		6	28 15	0 20	22	22 29	29	* ♃ ♁, ☉ ♃ ♁
30	T		7	11 ☽ 13	1 7	23	23 22	22	
31	W		8	24 31	2 10	23	24 2	2	Hot and dry.

A Person, in Affection zealous,
 Of's Mistress shall this Month grow jealous,
 Who will her Heart 'twixt two divide,
 As Love and Int'rest shall decide:
 Yet, by the Planetary Bodies,
 A Wife shall be ador'd a Goddess.

M	rises		sets	
	h	m	h	m
1	3	45	8	15
2	3	46	8	14
3	3	46	8	14
4	3	47	8	13
5	3	48	8	12
6	3	48	8	12
F	3	49	8	11
8	3	50	8	10
9	3	51	8	9
10	3	51	8	9
11	3	52	8	8
12	3	53	8	7
13	3	54	8	6
F	3	55	8	5
15	3	56	8	4
16	3	58	8	2
17	3	59	8	1
18	4	0	8	0
19	4	17	59	
20	4	27	58	
F	4	47	56	
22	4	57	55	
23	4	67	54	
24	4	77	53	
25	4	97	51	
26	4	107	50	
27	4	127	48	
F	4	137	47	
29	4	157	45	
30	4	167	44	
31	4	187	42	

OBSERVATIONS.

about 2000 times greater than red-hot iron. By such heat, all vapours would be immediately dissipated. This heat of the Comet must be retained a very long time; for a red-hot globe of iron, of an inch diameter, exposed to the open air, scarce loses all its heat in an hour; but a greater globe would retain its heat longer, in proportion to its diameter, because the surface, at which it grows cold, varies in that proportion less than the quantity of hot matter. Therefore a globe of red-hot iron, as big as our earth, would scarcely cool in 50000 years. The Comet in 1680 coming so near to the Sun, must have been considerably retarded by the Sun's atmosphere; and therefore, being attracted nearer at every revolution, it will at last fall into the Sun, and be a fresh supply of fuel for what the Sun loses by its constant emission of light. In like manner, fixed stars which have been gradually wasted, may be supplied with fresh fuel, and acquire new splendour, and pass for new stars. Of this kind are those fixed stars which appear on a sudden, and shine with a wonderful brightness at first, and afterwards vanish by degrees. Such is the conjecture of Sir

Isaac

New Moon the 1st day, at 2 in the afternoon.
First Quarter the 8th day, at 9 in the morning.
Full Moon the 15th day, at noon.
Last Quarter the 23d day, at 2 in the afternoon.
New Moon the 30th day, at 11 at night.

1 1 23
6 2 24
11 2 25
16 3 26
21 4 26
26 4 27

M	W	Remarkable	☉	☽ lon-	☽ rises	♂	♀	♃	Mut. Aspects
D	D	Days, &c.	Ω	gitude	& sets	Ω	♌	♍	and Weather
1	T	Lammas day	9	8Ω 11	sets	24	25	3	
2	F		10	22 8	8 a 39	25	26	5	Good
3	S		11	6♌ 17	8 59	25	27	6	weather to
4	F	11 S. of Trin.	12	20 24	9 14	26	28	7	begin the
5	M		13	4♌ 54	9 29	26	29	9	harvest.
6	T	Transfigurat.	14	19 12	9 43	27	♌ 10		
7	W	Prs. Ameliab.	15	3♌ 25	9 59	28	1 11		
8	T	[Na. of Jef.	16	17 32	10 19	28	2 12		* ♀ ♀
9	F		17	1 ♀ 32	10 46	29	3 14		Some gentle
10	S	St. Lawrence	18	15 24	11 23	♌ 4	15		showers
11	F	12 Tr. Du. Br.	19	dog d. e	morn	0	5 16		of rain.
12	M	Pr. Wales b.	20	12 ♀ 44	0 15	1 5	17		
13	T	[Old Lam.	21	26 8	1 20	2 6	18		
14	W		22	9 21	2 36	2 7	19		Some thun-
15	T	Assumption	23	22 19	rises	3 8	20		der showers
16	F	D. of York b.	24	5 ♀ 3	8 a 10	3 9	21		about this
17	S		24	17 32	8 22	4 10	22		time.
18	F	13 S. of Trin.	25	29 47	8 34	5 11	22		* ☉ ♀
19	M		26	11 ♀ 50	8 46	5 12	23		
20	T		27	23 43	8 59	6 13	24		
21	W	D. of Clar. b.	28	5 8 31	9 12	7 13	24		Somewhat
22	T		29	17 19	9 27	7 14	25		cloudy and
23	F		♌ 29	12 9	49	8 15	25		windy,
24	S	St. Bartholo.	1	11 14	10 19	9 16	26		but yet
25	F	14 S. of Trin.	2	23 33	10 59	9 17	26		
26	M		3	6 12	11 54	10 17	26		very fine
27	T		4	19 14	morn	10 18	R		weather.
28	W	St. Augustine	5	2Ω 42	1 6	11 19	26		
29	T	Beh. J. Bapt.	6	16 35	2 25	12 20	26		
30	F		7	0 51	sets	12 21	26		
31	S		8	15 23	7 a 25	13 21	26		

Fortune shall be by Valour won ;
 And some this Month must be undone.
 Some by good Friends shall be promoted,
 And some for Want of Wit be noted.
 A charming Belle (by the Pleides)
 Shall be admir'd, among the Ladies.

M. \odot rises \odot sets
 D h m h m

OBSERVATIONS.

M.	\odot rises	\odot sets	
D	h m	h m	
1	4	19 7	41
2	4	21 7	39
3	4	22 7	38
F	4	24 7	36
5	4	26 7	34
6	4	27 7	33
7	4	29 7	31
8	4	31 7	29
9	4	32 7	28
10	4	34 7	26
F	4	36 7	24
12	4	37 7	23
13	4	39 7	21
14	4	41 7	19
15	4	43 7	17
16	4	45 7	15
17	4	46 7	14
F	4	48 7	12
19	4	50 7	10
20	4	52 7	8
21	4	54 7	6
22	4	55 7	5
23	4	57 7	3
24	4	59 7	1
F	5	16	59
26	5	36	57
27	5	56	55
28	5	76	53
29	5	96	51
30	5	106	50
31	5	126	48

Isaac Newton. There are some eclipses of the SUN recorded in history which cannot be verified by calculation from tables of the Sun and Moon; some have thought those darkneses may have been caused by the interposition of Comets between the Sun and Earth: the eclipses of the Sun mentioned by *Herodotus* are thus accounted for, as is also the eclipse that happened a few days before the death of *Augustus*, mentioned by *Dion*; it is observable that *Seneca* saw a Comet the same year. Some Comets, from their apparent magnitude and distance considered together, have been judged to be much larger than the Moon, and even equal in magnitude to some of the primary planets: a globe of that size, so much larger than the Moon is, might cover the Sun, and cause an eclipse. We read in history of Comets that have appeared as large as the Sun, if such an one, near its perigee, were to come between the Sun and our Earth, it would eclipse him for a time. Some have thought the darkness at our Blessed Saviour's crucifixion might be caused by a Comet coming then between the Earth and the Sun: this supposition

First Quarter the 6th day, at 3 in the afternoon.

Full Moon the 14th day, at 3 in the morning.

Last Quarter the 22d day, at 7 in the morning.

New Moon the 30th day, at 8 in the morning.

M	W	Remarkable	☉	☽ Lon-	☽ rises	♂	♀	♃	Mut. Aspects
D	D	Days, &c.	☾	gitude.	& sets	☾	♁	☿	and Weather
1	F	15 Tr. Giles	9	0 [△] 5	7 a 38	14	22	26	
2	M	Lond. bt. 1666	10	14 49	7 54	14	23	25	This month
3	T		11	29 28	8 11	15	23	25	begins with
4	W		12	13 ^m 57	8 30	16	24	24	fine wea-
5	T		13	28 ^s 12	8 55	16	25	23	ther.
6	F		14	12 ^f 13	9 28	17	25	22	
7	S	Enurchus	15	25 59	10 14	17	26	20	
8	F	16S. Tr. Nat.	16	9 ^h 30	11 18	18	26	20	
9	M	[V. M.]	17	22 48	morn	19	27	19	♂ ♂ ♀
10	T		18	5 ^m 51	0 31	19	27	18	♂ ☉ ♀
11	W		19	18 43	1 50	20	28	17	
12	T		20	1 ^h 21	3 7	21	28	16	Windy, and
13	F		21	13 48	4 25	21	29	15	some
14	S	Holy Cross	22	26 3	rises	22	29	14	showers near
15	F	17 S. af. Trin.	23	8 ^v 8	7 a 1	23	30	14	♂ ☉ ♂, △ ♀
16	M		24	20 4	7 13	23	31	13	this time.
17	T	Lambert	25	1 ^h 54	7 25	24	1	13	
18	W	Ember Week.	26	13 41	7 40	25	1	12	
19	T		27	25 28	7 59	25	1	12	
20	F		27	7 ^h 18	8 25	26	1	12	
21	S	St. Matthew	28	19 21	9 0	26	1	D	Fine, fair
22	F	18S. Tr. King	29	1 ^h 38	9 46	27	1	12	and plea-
23	M	[Geo. III. cr.]	29	14 14	10 51	28	2	13	☐ ☉ ♃
24	T		1	27 13	morn	28	2	13	fant.
25	W	Old Ho'yrood	2	10 ^h 40	0 7	29	2	14	
26	T	Cyprian	3	24 35	1 31	29	2	15	
27	F		4	8 ^h 56	3 0	0	2	16	☐ ♃ ♂
28	S	[Pis. Wir. b.]	5	23 39	4 29	1	2	17	Some rain
29	F	19 Tr. StMic.	6	8 ^h 37	sets	2	1	18	near the end.
30	M	Jerome	7	23 41	6 a 24	2	1	19	* ☉ ♃

Pleasure now looks like Something in it,
 And one shall feize the lucky Minute;
 Some shall, unfought, find many Friends,
 But many others lose their Ends;
 And fomewhere, near a Market-town,
 A House, this Month, shall tumble down.

M	rises		sets		OBSERVATIONS.
	D	h m	h m	h m	
F	5	14 6	46		position does not detract from the miracle; the divine interposition would be as necessary to order that those two events should fall out exactly at the same time as it would be to cause such darkness by any other extraordinary means. I must not conclude this account of Comets, without mentioning that <i>Whiston</i> , who, from <i>Flamstead's</i> measure of the apparent diameter of the Comet of 1680, concluded the nucleus of that Comet to be about ten times as big as the Moon, or equal to a fourth part of our Earth, attributes the universal deluge in the time of Noah to the near approach thereof. His opinion was, that the Earth passed through the atmosphere of the Comet, and attracted therefrom great part of the water of the flood; that the nearness of the Comet raised a great tide in the subterraneous waters, so that the outward crust of the Earth was changed from spherical to oval; that this could not be done without making fissures or cracks therein; that through these fissures the subterraneous waters were forced, by the hollow of the Earth being so changed, into a less capacious
	25	16 6	44		
	35	18 6	42		
	45	20 6	40		
	55	22 6	38		
	65	24 6	36		
	75	26 6	34		
F	5	28 6	32		
	95	30 6	30		
10	5	32 6	28		
	115	34 6	26		
	125	35 6	25		
	135	37 6	23		
	145	39 6	21		
F	5	41 6	19		
	165	43 6	17		
	175	45 6	15		
	185	47 6	13		
	195	49 6	11		
	205	51 6	9		
	215	53 6	7		
F	5	55 6	5		
	235	57 6	3		
	245	59 6	1		
	256	15	59		
	266	35	57		
	276	55	55		
	286	75	53		
F	6	95	51		
	306	115	49		

First Quarter the 5th day, at midnight.
Full Moon the 13th day, at 7 in the afternoon.
Last Quarter the 21st day, at 11 at night.
New Moon the 28th day, at 6 in the afternoon.

1 8 1
6 8 1
11 9 1
16 9 2
21 9 R
26 10 1

M	W	Remarkable Days, &c.	☉	D Lon- gitude	D rises & sets	♂	♀	♃	Mut. Aspects and Weather
1	T	Remigius	8	8m42	6 a 41	3	1	22	△ 2 ♀
2	W		9	23 32	7 4	4	1	23	Cold winds
3	T		10	8 f 6	7 35	4	1	25	near this
4	F		11	22 19	8 18	5	0	26	time.
5	S		12	6 v 9	9 17	6	0	28	
6	F	20 S.af. Trin.	13	19 39	10 28	6	△	△	
7	M	[Faith]	14	2 m 48	11 46	7	29	1	□ 2 ♀
8	T		15	15 39	morn	7	29	3	Fine for the
9	W	St. Denys	16	28 15	1 5	8	28	5	* h ♂
10	T	Ox. & Ca. T.b.	17	10 x 37	2 21	9	28	7	season.
11	F	[Old Mic.	18	22 49	3 35	9	27	8	* h ♀
12	S		19	4 v 52	4 47	10	27	10	♂ ♂ ♀
13	F	21 Tr. Trans.	20	16 47	rises	11	26	12	
14	M	[Edw. Conf.	21	28 38	5 a 40	11	26	13	Some wet
15	T		22	10 x 26	5 56	12	25	15	weather
16	W		23	22 13	6 12	13	24	17	♂ ♂ ♀
17	T	Etheldred	24	4 II 2	6 34	13	24	19	now about
18	F	St. Luke	25	15 56	7 4	14	23	20	
19	S		26	28 0	7 47	15	23	22	♂ ♀ ♀
20	F	22 S.af. Trin.	27	10 Ω 16	8 43	15	22	24	
21	M		28	22 49	9 52	16	21	25	
22	T		29	5 Ω 43	11 11	17	21	27	Still showery
23	W		m	19 2	morn	17	20	29	for the most
24	T	[Crisp.	1	2 v 48	0 34	18	20	m	△ ♂ 1, △ 2 ♀
25	F	K. Geo. 3 ac.	2	17 0	2 0	19	19	2	♂ ♂ ♀, ♂ ♂ ♀
26	S	K. Geo. 3 pr.	3	1 △ 38	3 29	19	19	4	part.
27	F	23 S.af. Trin.	4	16 36	4 57	20	18	5	
28	M	St. Simon and [Jude]	5	1 m 46	sets	21	18	7	Stormy and
29	T		6	16 59	5 a 11	21	18	9	□ h ♀
30	W		7	2 f 6	5 35	22	17	10	cold, near
31	T		8	16 58	6 15	23	17	12	the end.

Lawyers shall be distress'd for Sense,
 And Conscience strain'd by Evidence;
 A Person shall escape a Hurt,
 Another fall into the Dirt;
 A Judge and Jury be misled,
 And Truth, and Equity, ill-sped.

M	☉ rises	☉ sets	OBSERVATIONS.
D	h m	h m	
1	6 13	5 47	
2	6 15	5 45	pacious form; that, along with the water
3	6 17	5 43	thus squeezed up, upon the surface of the
4	6 19	5 41	Earth, much slime or mud would rise;
5	6 21	5 39	which, together with the grosser parts of
F	6 23	5 37	the Comet's atmosphere, would, after the
7	6 25	5 35	subsiding of the water, partly into the
8	6 27	5 33	fissures, and partly into the lower parts of
9	6 28	5 32	the Earth to form the Sea, cover all over,
10	6 30	5 30	to a considerable depth; the antideluvian
11	6 32	5 28	Earth: thus he accounts for trees and
12	6 34	5 26	bones of animals being found at very great
F	6 36	5 24	depths in the Earth. The Tail of the
14	6 38	5 22	Comet of 1680 extended itself over 60 de-
15	6 40	5 20	grees, or a third part of the Heavens, from
16	6 42	5 18	East to West; which Tail, therefore, must
17	6 44	5 16	be some millions of miles in length. Some
18	6 46	5 14	Comets, and particularly that of 1680, are
19	6 48	5 12	computed to proceed, in their greatest dis-
F	6 50	5 10	tances from the Sun, no less than four times
21	6 52	5 8	the distance of Saturn: yet it is found
22	6 54	5 6	that Comets, at that amazing distance in
23	6 55	5 5	the ethereal Pace, are not affected by the
24	6 57	5 3	attraction of the fixed Stars; but, arriving
25	6 59	5 1	at their extreme limits, to which their
26	7 1 4	59	projectile force will carry them, they regu-
F	7 3 4	57	larly return, by the force of the Sun's at-
28	7 5 4	55	traction, acquiring new projectile force.
29	7 7 4	53	by
30	7 9 4	51	
31	7 10 4	50	

First Quarter the 4th day, at noon.

Full Moon the 12th day, at 2 in the afternoon.

Last Quarter the 20th day, at noon.

New Moon the 27th day, at 4 in the morning.

1	10	1
6	10	1
11	10	1
16	10	0
21	R	II
26	10	29

M	W	Remarkable	☉	☽ lon-	☽ rises	♂	♀	♃	Mut. Aspects
D	D	Days, &c.	η	gitude	& sets	☉	☉	η	and Weather
1	F	All Saints	9	15 ^f 27	7 a 9	23	17	13	☐ ☉ ♃
2	S	Pr. Ed. All So.	10	15 31	8 16	24	17	15	
3	F	24 Tr. Prs So.	11	29 8	9 34	25	16	17	Some sharp
4	M	K. Wm. land.	12	12 ^m 19	10 54	25	16	18	frosts now
5	T	Powder Plot	13	25 8	morn	26	16	20	about.
6	W	Leonard. Ter.	14	7 ^X 37	0 12	27	D	21	
7	T	[begins	15	19 50	1 27	27	16	23	
8	F	Prs. Aug. So.	16	1 ^V 52	2 38	28	16	24	Sleet or
9	S	L ^d . Mayor's d.	17	13 46	3 49	29	16	26	showers.
10	F	25 S. of Trin.	18	25 35	4 59	29	16	27	
11	M	St. Martin	19	7 8 23	6 11	30	16	29	
12	T	Cam. T. d. m.	20	19 11	rises	1 17	f		Δ ♃ ♃
13	W	Britius	21	1 11 2	4 a 40	1 17	2		
14	T		22	12 58	5 8	2 17	4		Frosty, and
15	F	Machutus	23	25 1	5 46	3 17	5		more cold.
16	S		24	7 [☉] 12	6 36	3 18	7		
17	F	26 S. of Trin.	25	19 35	7 41	4 18	8		
18	M	[Hugh	26	2 Ω 12	8 54	5 18	10		Δ ♃ ♃
19	T		27	15 5	10 13	5 19	11		
20	W	Edmund	28	28 18	11 36	6 19	13		Cold, rough
21	T		29	11 [☉] 53	morn	7 20	14		winds.
22	F	Cecil. Ol. Mart.	30	25 51	0 59	7 20	16		
23	S	Clement	1	10 [☉] 12	2 23	8 21	17		
24	F	27 S. of Trin.	2	24 53	3 51	9 21	19		Rain or
25	M	D. Glo. Ca-	3	9 [☉] 51	5 21	9 22	20		snow
26	F	[tharine	4	24 59	6 55	10 23	21		☐ ♃ ♃
27	W		5	10 ^f 6	sets	11 23	23		* ♃ ♃
28	T	Term ends	6	25 4	4 a 45	11 24	24		now about.
29	F		7	9 [☉] 44	5 49	12 24	26		
30	S	St. Andrew	8	24 0	7 6	13 25	27		Cloudy.

A Magistrate shall tell a Lie;
 A Patient of the Doctor die;
 A wedded Couple shall be parted,
 And a young Lady prove hard-hearted:
 Others obscure (their Stars be prais'd)
 To Fame and Riches shall be rais'd.

M	ries	sets
D	h m	h m
17	12 4	48
27	14 4	46
F 7	16 4	44
47	18 4	42
57	19 4	41
67	21 4	39
77	23 4	37
87	24 4	36
97	26 4	34
F 7	28 4	32
117	30 4	30
127	31 4	29
137	33 4	27
147	34 4	26
157	36 4	24
167	37 4	23
F 7	39 4	21
187	40 4	20
197	42 4	18
207	43 4	17
217	45 4	15
227	46 4	14
237	47 4	13
F 7	49 4	11
257	50 4	10
267	51 4	9
277	52 4	8
287	54 4	6
297	55 4	5
307	56 4	4

OBSERVATIONS.

by accelerating their velocities all the way back in their approach to the Sun; and then retard their motion in their retreat every where from him; and so on periodically, and perpetually. We may therefore observe, that there is a space of six or seven thousand millions of miles over, at least, (and who can tell how much more) wherein the Planets and Comets revolve round the Sun, as the centre of that space, independent of the attraction of the fixed Stars, reaching, in all probability, like our Sun's attraction, three or four thousand millions of miles round each Star. And we may reasonably suppose, that there are infinite systems in the infinite space, and a fixed Star placed in the midst of each system, as a Sun to the respective revolving bodies; and all these systems kept in suspension, and at due distances from each other, by certain properties—Hence we may suppose, that no two fixed Stars are nearer to each other than six thousand millions of miles, however they appear to us so crowded, and near one another, at their vast distance: for, though we are nearer some of them at one time of the year than another, by the whole breadth

of

First Quarter the 4th day, at 3 in the morning.

Full Moon the 12th day, at 9 in the morning.

Last Quarter the 19th day, at 11 at night.

New Moon the 26th day, at 3 in the afternoon.

1 10 29
6 10 28
11 10 27
16 10 27
21 9 26
26 9 25

M	W	Remarkable	☉	D lon-	D rises	♂	♀	♁	Mut. Aspects
D	D	Days, &c.	↑	gitude	& sets	♏	♎	♏	and Weather
1		F Advent Sund.	9	7 ³ 47	8 a 27	13	26	29	
2	M		10	21 6	9 49	14	27	28	Δ ○ h
3	T		11	3 ⁵ 59	11 7	15	27	1	Dull, dark
4	W		12	16 29	morn	15	28	2	Δ 4 ♀
5	T		13	28 41	0 22	16	29	4	weather,
6	F	Nicholas	14	10 ⁹ 39	1 32	17	29	5	begins this
7	S		15	22 30	2 41	17	0	6	month.
8	F	2 S. in Adv.	16	4 8 16	3 49	18	1	7	
9	M	[Concept.	18	16 4	5 0	19	2	8	
10	T		19	27 55	6 12	20	3	9	Sleet, or
11	W		20	9 11 53	7 23	20	4	10	showers,
12	T		21	21 59	rises	21	5	11	now about.
13	F	Lucy	22	4 ⁵ 16	4 a 22	22	6	11	
14	S		23	16 43	5 22	22	6	12	
15	F	3 S. in Adv.	24	29 21	6 35	23	7	12	
16	M	Ca. T. e. O Sap.	25	12 Ω 11	7 53	24	8	12	Frosty wea-
17	T	Oxf. Term e.	26	25 14	9 12	24	9	12	8 ○ 4, □ h ♀
18	W	Ember Week	27	8 ¹ 30	10 33	25	10	12	ther, and
19	T		28	22 2	11 54	26	11	12	* ♀ ♀
20	F	day]	29	5 ⁴ 49	morn	26	12	11	some snow
21	S	St. Tho. Shorst	29	19 54	1 16	27	13	11	or sleet.
22	F	4 S. in Adv.	1	4 ^m 14	2 40	28	14	10	
23	M		2	18 49	4 10	28	15	9	
24	T		3	3 ^f 35	5 43	29	16	8	Cloudy, and
25	W	Christmas day	4	18 24	7 11	29	17	6	dark
26	T	St. Stephen	5	3 ^h 10	sets	1	18	5	♂ ○ ♀
27	F	St. John	6	17 44	4 a 26	1	19	3	weather,
28	S	Innocents	7	1 ³ 59	5 45	2	20	2	with some
29	F	1 S. af. Chris.	8	15 50	7 13	3	21	1	frosts.
30	M		9	29 14	8 32	3	22	2	
31	T	Silvester	10	12 ^h 11	9 49	4	23	29	

A great Event is very near,
 The Ending of the present Year!
 Wonders that happen'd heretofore,
 Shall by the Sun be seen no more.
 Mars is on Venus still attendant,
 As War on Peace; so mark the End on't.

M ☉ rises ☉ sets

D h m h m

OBSERVATIONS.

	D	h	m	h	m	
F	7	57	4	3		of the Earth's orbit, or about 160 mil-
	27	58	4	2		lions of miles, their appearances, magni-
	37	59	4	1		tudes, and distances, from one another, are
	48	0	4	0		seen to be always the same—What an
	58	1	3	59		astonishing idea of the greatness of the
	68	2	3	58		Creator from his works!—The idea of the
	78	2	3	58		immense theatre of the universe exhibits to
F	8	3	3	57		us its fitness for the Being of an infinite
	98	4	3	56		God (whose existence and glory exceeds
	108	4	3	56		all human comprehension) to display his
	118	5	3	55		immense wisdom, power and goodness
	128	5	3	55		upon.—But, after having extended the
	138	6	3	54		created universe to a space as far and wide
	148	6	3	54		as the greatest human arithmetic can ex-
F	8	7	3	53		press, what is that space, to infinitude, but
	168	7	3	53		a mere point, that bears no proportion to
	178	7	3	53		the unbounded and unlimited presence of
	188	8	3	52		the Divine Nature? For, were the highest
	198	8	3	52		archangel to take his flight from this part
	208	8	3	52		of the universe, and travel in a direct
	218	8	3	52		course with the swiftness of light, it is cer-
F	8	8	3	52		tain, from the nature of immensity, that
	238	8	3	52		should he proceed in his flight to all eter-
	248	8	3	52		nity, he must still find himself in the cen-
	258	8	3	52		tre of the Divine Presence—"In whom we
	268	7	3	53		"live and move and have our being—There
	278	7	3	53		"is no flying from his presence—The heavens,
	288	7	3	53		"even the heaven of heavens, cannot contain
F	8	6	3	54		"him.
	308	6	3	54		
	318	5	3	55		

Speculum Anni :

OR,

SEASON ON THE SEASONS.

For the YEAR of our LORD, 1799.

THE SECOND PART.

Containing variety of matter in prose and verse, part necessary to complete a performance of this kind, part collected or composed by the author, for the instruction and improvement of British youth, or of those who, in the humble vale of life, have souls superior to the opportunities given them, to improve in the various branches of science; and concluding with the kind contributions of his learned and ingenious correspondents, to whom he once more returns his sincere thanks for their favours and generous assistance in a work designed at least

- “ To raise the soul by tender strokes of art,
- “ To wake the genius, and to mend the heart;
- “ To make mankind in Nature's study bold;—
- “ Look o'er each scene, and mark what they behold.”

Of the ECLIPSES of the SUN and MOON that will happen in this Year, 1799.

IN this year, there will happen only two Eclipses, and they both of the SUN; therefore no Eclipses of the MOON will happen this year.

The first of these Solar Eclipses will happen on *Sunday*, the 5th day of *May*, at a quarter before our one o'clock in the morning; therefore, of course, it must be invisible to us. This
Eclipse

Eclipse will be both central and annular in the great South Sea, and particularly under 8 degrees of North Latitude, and 178 degrees of East Longitude from *London*, where this beautiful central appearance will fall upon them precisely at 12 o'clock at noon.—This Eclipse, more or less partially eclipsed, will be visible at the Sandwich Islands, at the Society and Friendly Islands, the New Hebrides, New Caledonia, and as far as New Zealand, towards the South Pole.—It will be seen in New Holland, New Guinea, the Ladrone Islands, and as far North from thence as the Island of Japan.

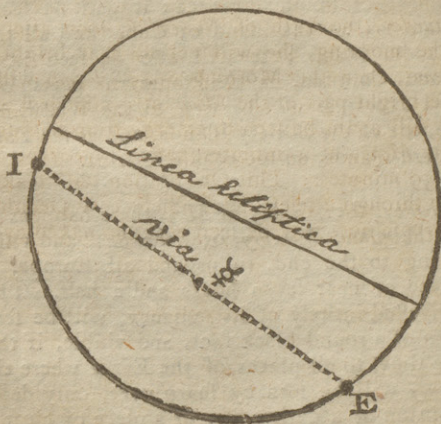
The other Solar Eclipse happens on *Monday*, the 28th day of *October*, at half an hour past our 5 o'clock in the evening invisible to us; for the *Sun* sets that day, at *London*, at 54 minutes past 4 o'clock. This is also a very great Eclipse, and will be both central and total at noon-day, in 5 degrees 15 min. South Latitude, and near 83 degrees of Longitude West from *London*; which is in the great Pacific Ocean, or great South Sea, near the western coast of Peru in South America. This Eclipse will be visible, more or less in quantity, to the whole continent of South America; it will be seen at the island of Jamaica, at the island of Cuba, and all the rest of the West India islands; it will also be seen in Florida, Georgia, and Carolina, in the southern parts of North America. I expect it will be seen to the Westward, as far as Otaheite, one of the Society Islands, and as far Eastward as the Cape Verd islands, on the coast of Africa.

Upon *Tuesday*, the 7th day of *May*, there happens a notable Transit of the planet *Mercury*, over the *Sun*, and visible from the beginning to the end, to us and all Europe, and that for the space of near seven hours and a half. The planet *Mercury*, divested intirely of its radiancy, will be seen on the *Sun*, in form of a round black spot, and visible, if the sky be clear at the time, to all places of the Earth where the *Sun* is up. *Mercury* will be seen by sharp eyes, only defended by the interposition of a dark glass, or a piece of clear window-glass, smoked over the flame of a candle, but will appear

much larger, and more to advantage, with the help of a telescope; but the precaution of interposing a dark glass between the eye and the telescope will be necessary, or otherwise the sight may be impaired, if not nearly destroyed; but, thus shielded, it will be perfectly secure from danger, or any inconvenience. This Transit will be visible, from the middle to the end, to all North and South America, and the West India Islands; the Beginning will be seen in Eastern Tartary, China, the Philippine Islands, the Islands of Borneo, Sunda, and Java, and on the western coast of New Holland; but the Sun will set with them soon after.

The apparent time at *London*, of the Ingress at I, is *May* the 7th day, at 1 minute after 9 o'clock in the morning. The Middle of the Transit will be at 43 minutes past 12 at noon; and the Egress, at E, is at 25 minutes past 4 in the afternoon. The whole Duration of the Transit is 7 hours 24 minutes.

The TYPE.



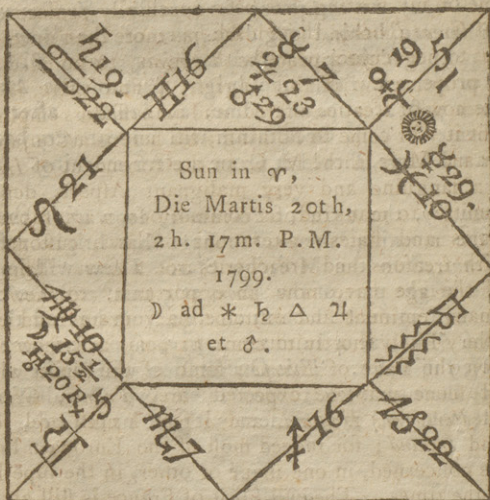
The following is an Account of Two Occultations of the
PLANETS by the MOON.

On *Wednesday*, the 16th of *January*, there happens an Occultation of the Planet *JUPITER* by the *Moon*, and visible in these Parts, if the air prove favourable. *Jupiter* will be seen to immerge behind the dark part of the *Moon*, at 49 minutes past 1 o'clock in the morning; and will again be seen to emerge from the bright part of the *Moon*, at 40 minutes past 2, apparent time, at *London*, after being hid 51 minutes. This Occultation will appear very beautiful through a telescope, should it prove a clear morning.

On *Saturday*, the 24th of *November*, soon after the *Moon* rises in the morning, she will eclipse that bright refulgent planet *Venus*, then the Morning Star. *Venus* will immerge behind the bright part of the *Moon*, at 5 min. past 4 o'clock; and *Venus* will again be seen to emerge from behind the dark part of the *Moon*, at 4 minutes past 5, apparent time, after being hid 59 minutes. This Occultation will make a pretty appearance through a telescope. These two Occultations (if clouds interpose not) may be seen with the naked eye.

Judicium Astrologicum pro Anno Redemptionis, 1799.

The SPRING QUARTER, or the SUN'S INGRESS into
ARIES.



This Quarter commences when the *Sun* begins to display his genial influence upon the Earth, and happens, this year, on the 20th of *March*, at 17 min. past 2 in the afternoon, when the Planets display themselves as in the above Scheme.

Here appears to be much murmuring and repining amongst all ranks of people. Some of the Planetary Configurations are for peace, whilst others imply war and bloodshed; and after this manner we shall find the nations of the earth disposed.— The two grand superiors, Saturn and Jupiter, are not circumstanced to give much tranquillity to *Ireland*, though they have lately been in a Sextile aspect to each other: these planets, in their passage through the Zodiac, have some effect over the ruling passions of mankind; for, by their Trine and Sextile aspects, first one and then another have withdrawn themselves from the scene of blood and slaughter, and have made peace with *France*; yet the other configurations (as second causes under God) of the malevolent Planets, have had, according to their Ascendants, different effects on others, so that war, cruel war, even to the time of my writing, has been necessarily prosecuted on the part of *Great Britain*, though she has more than once made an attempt to negotiate a peace with *France*, to no effect. In taking a proper view of this Ingress, I find there is some appearance now of treaties offered, and ambassadors employed; yet I doubt it will come to nothing; for here is a Conjunction of Jupiter and Mars in the M. C. in the Ascendant of *Ireland*, which is a sanguine and very malignant Aspect, denoting great calamities to mankind, as commotions, wars, subversion of kingdoms and states; alterations of laws, customs and rights, with treasons and treacheries not a few. The great heroes of the age have now an opportunity to shew their valour: many eminent and extraordinary events and alterations are very likely shortly to come to pass, and shew themselves upon the stage of *Europe*; some of the places whence the grand scene may be expected, are, *France, Germany, Spain and Portugal, Holland*, and I fear I must add, *Great Britain and Ireland*; for indeed most of the European Powers seem to be concerned, in one shape or other, in the superlative actions of the times. The evil spirit of *France* is still at work, in contriving and carrying on some designs against our liberties, land and nation; a strange spirit of discord appears amongst the ruling powers of mankind, both in *Europe* and *America*; whence wars, devastation, and all other calamities usually attending the same, will be the sad fate of many countries.—

countries.—The *German* and *Roman* empires greatly molested by divisions, schisms, and pernicious councils, &c.—The powers of *Italy* in dire confusion and distress.

On the SUN'S ENTRANCE into CANCER, which introduces the SUMMER QUARTER.

This Summer, or Estival Quarter, begins the 21st of *June*, at 3 min. past 12 o'clock at noon, when the first degree of ☊ will be on the Cusp of the 10th House, and the first degree of ♌ will be on the Ascendant—Venus is Lady thereof, on the Cusp of the 11th, afflicted by an 8 of the *Moon* from ☾; also at this Ingress, there is a remarkable 6 of ♃ and ♄ in ☊, posited in the Medium Cœli; and their effects are such, that they violently afflict each other, From a proper consideration of the Figure, I infer that this will be a very eminent and active Quarter—it denotes raging distempers, fevers, and fiery appearances in the air; inundations, earthquakes, and tempestuous weather, are often concomitants upon such Conjunctions.—This Conjunction happens in a Tropical Sign, and Cardinal Signs possess the Angles of the Figure, which shews the effects will be very eminent, and will influence to great and notable actions, which will be carried on with great resolution and celerity. The French Republic appears formidable to their neighbours; and some considerable changes appear in the affairs of the German Princes. The Russians exert themselves with great valour and prudence.—A strange and turbulent spirit appears in France; but Great Britain will keep her ground, amidst this din of war and ruin; so that, if the French attempt to invade us with their armies, we predict they shall assuredly suffer for their rashness, even to a total defeat.—The transit of the malevolent planet *Saturn* through the Tropical Sign *Cancer*, has already, and will still, shed unpleasing

unpleasing influences on the affairs of *Holland, Genoa, Switzer-land, Italy and Spain*, and several parts of *Germany* are still likely to be in a very murmuring state.

From all parts, sea and land, methinks I see,
The dreadful signs of death and destiny;
View well the rays the angry stars prepare,
All sorts of cruelty, the rage of war.
Here's anger, discord, fury, fear, mistake,
And all besides that can man's ruin make.

On the SUN'S ENTRANCE into LIBRA, which introduces
the AUTUMNAL QUARTER.

This Quarter commences the 23d day of *September*, at 49 minutes past one o'clock in the morning, when 29 deg. of ♄ will be upon the Mid-heaven, and 16 deg. of ♋ will ascend in the East. ♃ in 7 deg. of ♋ in the 12th House; ♃ just entering ♁ in the 11th House; ♃ 27 deg. of ♁, posited on the Cusp of the 3d; ♃ 1 deg. of ♁, located in the 4th; ♃ 13 deg. of ♁ in the 2d House; the *Moon* in 9 deg. of ♁, her own dignities, posited in the 11th, separating from a ♃ of ♃ and ♃ of ♃, and next applying to the * of ♃ and ♃—Thus stand the Face of the Heavens at this Ingress, and from which I infer, that, notwithstanding some overtures have been made for a general peace, yet I doubt the felicity of *Europe* is not so near at hand; there seems to be some farther work to be done.—The sufferings of this nation, as well as of *Ireland*, I fear, are not completely at an end. I cannot sing Peace, or say our *Quietus est* is yet signed; for our enemies are many. This year will be productive of great accidents and vicissitudes, in several parts of the world; various and sudden mutations—Yet this year gives some hopes of a peace too, but I believe not a substantial and general one, perhaps a truce only, or a suspension of arms for a short time. The *Turks* are in danger of Belshazzar's judgment; great will be the actions

and disturbances both to the East and West of us.—The *French*, *Dutch*, and *English*, hope for better times; but their troubles are not yet at an end; it would be well if they were.

On the SUN'S ENTRANCE into CAPRICORN, which introduces the WINTER QUARTER.

The Winter Quarter commences on the 21st of *December*, at 33 min. past 6 at night.—This is a season not fit for action, but rather council and consultation, as all men know; and doubtless there will be enough of that, in regard there are so many remarkable Aspects in this and the next Quarter, and I hope to good purpose, and the general consent of the whole nation; though at the same time we must expect various and uncertain rumours divulged, and some very notable design in agitation, perhaps not thought of by the major part. This Quarter is naturally cold and moist; young and choleric people are now best in health, but aged and phlegmatic people the contrary. In these months, melancholy and phlegm do much increase. It is now good to keep warm, and to eat such meats as are of an hot quality. It is now not good to bleed and purge, unless there be great occasion. To drink wine sometimes, and to use spices in your diet, is very good.—The same observe in *January*; but in *February*, you may take pills to purge the head, and bathe or bleed, if there be occasion.—I now end, praying God to defend our Sovereign Lord King GEORGE, and all his offspring, and to endue him, and them, with wisdom, and prosper all those that wish and act for the welfare of this kingdom, and all other his Majesty's dominions.

Some readers will deride what's here recited,
As heretofore they other truths have slighted;
Yet some of my presages, you've beheld,
Already have exactly been fulfill'd;
Others in their appointed times you'll see,
And sooner too than they will welcome be.

ANSWERS to the ENIGMAS, CHARADES, REBUSES, &c.
in our last.

<i>Enigma</i> 1. War.		<i>Rebus</i> 3. A Friend.
Do. 2. A Bed.		Do. 4. Money.
<i>Rebus</i> 1. Prudence.		<i>Charade</i> 1. Armstrong.
Do. 2. Harrowgate.		Do. 2. Friendship.

Paradox, Hague.

A GENERAL ANSWER to the ENIGMAS, &c.

By Mr. DAVID LEWIS *, of Knareborough.

On SPRING.

Now Winter assails us no more,
The birds they are proud to endear,
The zephyrs now fan the fields o'er,
And *Beds* of sweet cowslips appear.

2 *Enig.*

To Bath, Tunbridge, or *Harrowgate*,
His lordship repairs with his *Friend*,
In equipage, grandeur, and state,
The livery'd servants attend.

2 *Reb.*

3 *Reb.* and

2 *Ch.*

But let me contented abide,
Since such hath not fell to my lot;
Let virtue be always my guide,
And *Prudence* be found in my cot:

1 *Enig.* Sin

or war.

1 *Reb.*

I ask not what's done at the *Hague*,
I envy no statesman his wealth;
For *Money* is nought but a plague,
So let me read *Armstrong* on health.

Parad.

4 *Reb.*

1 *Char.*

* This gentleman has compiled a descriptive Poem of Harrowgate and Knarebro', containing about 400 lines.

A GENERAL ANSWER to ENIGMAS, &c.

By Mr. JOHN SMITH, of Alton Park, Staffordshire.

Prudence, Harrowgate, Money, War, Armstrong, Bed, Friend,
 With *Friendship*, and *Hague*, will disclose
 The puzzles which were so mysteriously penn'd,
 The readers of SEASON to pose.

The FIRST CHARADE by Mr. SMITH, answered thus by

Mr. JOHN COLES, of Weedon, Northamptonshire.

Mr. Smith, you are an ingenious man,
 And much praise to you does belong;
 Your Charade I will name, if I can,
 I think it to be the Poet *Armstrong*.

ANSWER to the ENIGMAS, &c.

By Mr. WM. WARING, of Leicester.

O lovely *Prudence*! Heaven-born maid!
 Assist kind *Friendship* with thy aid,
 That *War* may cease, that cursed plague,
 And all be *Friends* again with *Hague*.

Then chant the numbers of *Armstrong*,
 As to *Harrowgate* we walk along,
 And may no *Monkey** intervene,
 But go to *Bed* at night serene.

The QUERY answered by Mr. DAVID LEWIS.

That Jephthah was aspiring, haughty, and inconsiderate, appears by the conditions he imposed on his countrymen when he took the command, his imperious message to the King of Ammon, and his rash vow on the event of success. Though it might seem, and actually was, a great infringement upon paternal tenderness, to sacrifice his only daughter; yet, when we consider his private character, the solemnity and publicity

* Several of our Correspondents mistook the 4th Rebus for *monkey*, on account of "four-sixths," instead of *three-sixths*.

of his vow, the magnitude of his victories, and having Abraham, the head of the nation, for a precedent, there can be little doubt but the strength of his oath overcame the ties of nature; as it is positively said, in the 39th verse of the 11th chapter of Judges; else why did the daughters of Israel make an annual mourning for the untimely death of the devoted virgin?

Mr. JOHN COLES observes, that the late Rev. Mr. ROMAINE says, Jephtha's vow did not oblige him to sacrifice his daughter, nor did he; *His vow was kept* by her being the Lord's, and a virgin recluse.

NEW ENIGMAS, &c. for the Year 1799.

FIRST ENIGMA, by Mr. HENRY ANDREWS, *Royston,*
Herts.

O Eve! of females once the best,
Curs'd be the hour when thou transgress'd;
Had wisdom guided thy unfully'd will,
Eden had bloom'd, and man been happy still.
This wond'rous globe, how curs'd by Heaven's decree!
How lost to rectitude, in all we see!
A field of blood, where desolation reigns,
And various vices deluge all its plains.
Transgression—the cause of every woe—
Angels has damn'd, and curs'd mankind below;
To me a friend—her sons are all my care,
Disgrace their lot, and wretchedness their fare.
Some Popes of Rome, with Peter's bastard keys,
Boast of great pow'r, annexed to their Sees.
But I, more souls have punish'd in the cell,
Than all the Popes of Rome e'er pray'd from hell.
Saint Peter's Vicar, in a judgment day,
Abash'd may stand, and not a word can say;
My pris'ners too, o'erwhelm'd with grief and shame,
Arraign'd, like him, must answer to their name.
The Judge, in judgment, plac'd above the crow'd,
The sinner cast, his sentence speaks aloud;

“ Thy

" Thy name no more must foil the Book of Life,
 " And all thy pleas are wretchedness and strife.
 " No mercy here thy guilty soul can share,
 " Thy character's lost, to meet thy doom prepare ;
 " In other worlds, beneath some brighter sun,
 " Grace may reverse what I've in justice done."
 Confign'd to me, th' unhappy victim raves,
 Sighs without hope, yet mercy, mercy craves !
 Unheard his cries, his groans have no avail,
 His warrant's seal'd, and death's the dread detail.
 This, like an herald, impow'ered from above,
 Should teach mankind repentance, faith, and love ;
 To seek from God, true wisdom to obtain,
 Then Christ is their's, and death's eternal gain,

SECOND ENIGMA, by Mr. JOHN SMITH, *Alton Park,*
Staffordshire.

Ye learned gents, who mysteries explain,
 Vouchsafe to listen, with attentive ear,
 Unto my artless tale, and shew my name.
 Know ye, to mother Earth's prolific womb,
 Like many other things, my birth I owe :
 But now my state is widely different
 To what 'twas then—as well may be suppos'd—
 For I've severest hardships undergone.
 I, in my pristine state, was unrefin'd
 And rude ; nor can I now of beauty boast ;
 Yet this I'll say, I very useful am
 To each mechanic—yes ! to all mankind :
 But—sad to tell—my use has been perverted,
 And mortals, wicked mortals, have employ'd me
 To execute the most inhuman deeds.
 A woman once, as holy writ, relates,
 With me committed murder—O how cruel !
 I also was concern'd in a crime
 Far worse—the crucifixion of our Lord.
 And yet by some I now am so much valu'd,
 They have me with them in their graves interr'd,
 There to consume and pulverize with them.
 My form's not complex ; and yet it would be,

In some degree, difficult to describe
 The various shapes in which I do appear ;
 Howe'er you'll mostly find me with a head.
 My size depends quite on my maker's will,
 For I sometimes am half a foot in length ;—
 Sometimes scarce half an inch, although 'tis said,
 My just length is two inches and a quarter.
 My lineage may be trac'd thro' several ages ;
 And, with good reason, it may be conjectur'd,
 That I in Noah's days was not unknown ;
 For, certainly, 'twould have been difficult,
 Without my friendly aid, t' have made his ark.
 Now, O ye bards ! whose names grace Season's page,
 Methinks, you easily may find me out.
 For, I presume, none of you are without me.

THIRD ENIGMA, by Mr. DAVID LEWIS, of *Knaresbro'*.

Seasonian bards, a moment spare,
 While I my use and form declare ;
 A neck, a mouth that speaks great things,
 As life, or death, or laws of kings !
 A spur to courage, cause of fears ;
 Proclaimeth peace, sets th' world by th' ears ;
 When hostile armies top the hills,
 Am busy there, but never kills :
 A city's walls I have brought low,
 And struck a panic through the foe ;
 But, notwithstanding my abuse,
 I was ordain'd for sacred use ;
 Though dead, I speak with living breath,
 And shall at last discomfit death.

FOURTH ENIGMA, by Mr. H. KENWORTHY, *Saddleworth*.

When spring adorns the verdant plains,
 And smiling herbs and flow'rets bloom ;
 When fields are moist with vernal rains,
 In fine array from earth I came.

Productive of my master's gain,
 I'm guarded round on ev'ry side;
 Protected still by some fond swain,
 That no disasters me betide—

And thus beneath such fostering care,
 I joyfully a while remain!
 But ah! my muse, who can declare
 The ills I bear, yet ne'er complain.

Beneath my guardian's cruel hands,
 A lifeless victim I do fall;
 From thence my master oft commands
 Me to some dark and lonely hall.

Within its gloomy walls confin'd,
 Until some swains by lucre led;
 Approach to treat me more unkind,
 And from my body beat my head.

These hardships due for all mankind,
 I'm always doom'd to undergo;
 And am a lasting friend, you'll find,
 To all the world, both high and low.

Although a friend by all confess'd,
 A cruel foe I sometimes prove;
 Deprive my masters oft of rest,
 And cause them pain whene'er they move.

So now, ye learned wits of fame,
 Who read kind Season's page this year;
 Be pleas'd to tell my mystic name,
 And let it in the next appear.

FIRST REBUS, by Mr. G. SIM—N, of *Thingdon,*
Northamptonshire.

Three-fifths of a term oft apply'd to high birth,
 Four-fifths of a mineral dug from the earth,
 These, when connected, name a Hertfordshire town,
 Where I drew my first breath, my mother doth own.

SECOND

SECOND REBUS, by Mr. JOHN SMITH, *Alton Park.*

Two-fifths of a person that's grown to full size,
 And what all will shun, who are virtuous and wise,
 When rightly connected together, will make,
 What most people are readier to give than to take.

THIRD REBUS, by Mr. DAVID LEWIS.

Three-fifths of one on whom few will depend,
 Three-fourths of what toil doth require;
 A place then join'd, that doth two members send,
 Shews a market-town in Yorkshire.

FOURTH REBUS, by Mr. WM. WARING.

To three-fifths of what travellers chiefly require,
 Add three-eighths of what ladies in dress should admire;
 And you plainly will see what the miser does crave,
 And what every poor man would wish for to have.

FIFTH REBUS, by Mr. JOHN SAVAGE.

To three-fifths of a cardinal point, please to join
 One-third of a number, and part of a swine;
 One fourth of a fruit, and the name of a weight;
 These joined, a pleasant town's name will complete.

FIRST CHARADE, by Mr. DAVID LEWIS.

My waving first, protects our happy isle,
 My playful second makes a father smile;
 My changing whole, will soon exhibit clear,
 An author's name, whom mystic bards revere.

SECOND CHARADE, by Mr. JOHN SMITH.

When Phoebus hath withdrawn his ray,
 My first can make each scene more gay;
 My next, though some it scourge, behold!
 It gives assistance to the old.
 Were it not for my whole, I trow,
 My first would ill its duty do.

THIRD

THIRD CHARADE, by Mr. G. SIM—N.

My first you may quite easy scan,
 For I am part of mortal man,
 My second will display to view,
 What gambling knaves too frequent do.
 My whole compounded you may see,
 What oft my neighbours do to me.

A PARADOX, by Mr. JOHN SMITH.

A word in English you may see,
 Which seven letters doth contain;
 From which if two be ta'en away,
 Exactly eight there will remain.

FIRST QUERY, by Mr. G. SIM—N.

Seasonian bards, to the world pray declare,
 From whence rose the custom of powdering hair.

SECOND QUERY, by Mr. JOHN SMITH, *Alton-Park.*

What is the meaning of St. Paul, when he says, "For
 "I could wish that myself were accursed from Christ for my
 "brethren, my kinsmen according to the flesh?"—*Romans,*
chap. ix. verse 3.

** The Author, HENRY SEASON, humbly thanks all his
 Contributors, and begs they will send their Letters, as usual, directed for
 him, at Stationers'-Hall, LONDON (Post paid), by the first of May;—and
 that they will inclose Answers to whatever they send.

F I N I S

Ὀλύμπια Δάματα

OR, AN

ALMANACK

For the YEAR of


Our LORD GOD, 1799;

Being the Third after

BISSEXTILE, or LEAP-YEAR,

And from the World's Creation, 5803.

Wherein are Contained the Lunations, Conjunctions, Aspects, and Effects of the Planets; the Increase, Decrease, and Length of the Days and Nights; with the Rising, Southing, and Setting of the Planets and fixed Stars throughout the Year; whereby may be known the exact Hour of the Night at all Times, when either the Moon or Stars are seen.

Calculated according to Art, and referred to the Horizon of the ancient and renowned Borough of  Stamford (formerly a famous University) of **Stamford** Latitude is 52 Deg, 20 Min. fitting all the Counties of **ENGLAND**, and, without sensible Error, the whole Kingdom.

17 77 99

Non est e Terris mollis ad Astra Via.

By **TYCHO WING**, Philomath.

L O N D O N :

Printed for the COMPANY of STATIONERS, and sold by G. GREENHILL, Treasurer to the Company, at their Hall, in Ludgate-Street.

[Price, stitched, SIXTEEN-PENCE.]

Common NOTES and Moveable FEASTS.

Dominical Letter	-	F	Septuagesima Sund.	Jan. 20
Golden Number	-	14	Shrove Sunday	Feb. 3
Epaft	-	23	Easter Day	March 24
Cycle of the Sun	-	16	Whit-Sunday	May 12
Roman Indiction	-	2	Trinity Sunday	May 19
Number of Direction	-	3	Advent Sunday	Dec. 1

A CATALOGUE of the Most Reverend, Right Reverend, and Reverend, the Archbishops, Bishops, and Deans, exercising Ecclesiastical Jurisdiction in England, 1799.

<i>Archbishops.</i>	<i>Deans Names.</i>	<i>Sees Names.</i>
Dr. John Moore	Dr. Cornwall	Canterbury
Dr. Wm. Markham	Dr. John Fountayne	York
<i>Bishops.</i>		
Dr. Beilby Porteus	Bishop Pretyman	London
Hon. Dr. S. Barrington	Bishop Cornwallis	Durham
Hon. Dr. Br. North	Dr. Newton Ogle	Winchester
Dr. Buckner	Mr. Combe Miller	Chichester
Dr. Charles Mofs	Lord Fran. Seymour	Bath & Wells
Dr. Spencer Madan	Dr. Kipling	Peterborough
Hon. Dr. James Yorke	Dr. Pearce	Ely
Dr. Richard Hurd	Dr. Onflow	Worcester
Dr. John Butler	Dr. Nat. Wetherell	Hereford
Dr. John Warren	Mr. Warren	Bangor
Hon. Dr. J ^s Cornwallis	Dr. Baptist Proby	Litchf. & Cov.
Dr. Lewis Bagot	Dr. W. D. Shipley	St. Asaph
Dr. Richard Watfon	Dr. Rob. Price, Prec.	Landaff
Dr. Edward Smatwell	Dr. Cyril Jackson	Oxford
Dr. Geo. Pretyman	Dr. Sir Rich. Kaye, Bt.	Lincoln
Dr. John Douglas	Dr. John Ekins	Salisbury
Dr. William Cleaver	Dr. George Cotton	Chester
Dr. Samuel Horsley	Dr. Thomas Dampier	Rochester
Dr. Richard Beadon	Dr. Josiah Tucker	Gloucester
Dr. E. V. Vernon	Dr. Isaac Milner	Carlisle
Dr. Char. M. Sutton	Dr. Joseph Turner	Norwich
Dr. Cornwall	Dr. John Hallam	Bristol
Dr. Regin. Courtenay	Dr. Charles Harward	Exeter
Dr. Stuart	Mr. Wollaston, Prec.	St. David's
	Bishop Horsley	Westminster
	Bishop Sutton	Windfor
Mr. Claudius Crigan		Sodor & Man

A TABLE of TERMS and Returns for the Year 1799.

HILARY Term begins January 23, ends February 12.

Returns or Essoign Days.	Exc.	Ret.	App.	W. D.
In eight Days of St. Hilary - - - Jan. 20	21	22	23	Wedn.
In fifteen Days of St. Hilary - - - 27	28	29	30	Wedn.
On the Mor. of the Purif. of the Bl. V. M. Feb. 3	4	5	6	Wedn.
In eight Days of the Purif. of the Bl. V. M. 9	10	11	12	Tuesd.

EASTER Term begins April 10, ends May 6.

In fifteen Days of Easter - - - April 7	8	9	10	Wedn.
From Easter Day in three Weeks - - 14	15	16	17	Wedn.
From Easter Day in one Month - - - 21	22	23	24	Wedn.
From Easter Day in five Weeks - - - 28	29	30	MI	Wedn.
On the Mor. of the Ascension of the Lord May 3	4	5	16	Mond.

TRINITY Term begins May 24, ends June 12.

On the Morrow of the Holy Trinity - May 20	21	22	24	Friday
In eight Days of the Holy Trinity - - 26	27	28	29	Wedn.
In fifteen Days of the Holy Trinity - June 2	3	4	5	Wedn.
From the Day of the Holy Trinity in 3 W. 9	10	11	12	Wedn.

MICHAELMAS Term begins November 6, ends November 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 fifteen Days of St. Martin - - - 25	26	27	28	Thursd.

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

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

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

The Names of the Learned JUDGES in the Law.

I. Right Hon. Alexander Wedderburne Lord Loughborough, Lord High Chancellor of Great Britain.

Right Hon. Sir Richard Pepper Arden, Knt. Master of the Rolls.

II. In the { Rt. Hon. Lord Kenyon, Lord C. J. Sir Nash Grose, Knt.
K. Bench. } Sir Wm. Henry Ashhurst, Knt. Sir Soulden Lawrence, Kt.

III. In the { Sir James Eyre, Knt. L. C. J. Sir Giles Rooke, Knt.
Co. Pleas. } John Heath, Esq. Sir Francis Buller, Bart.

IV. In the { Sir Arch. M'Donald, Knt. L. C. B. Sir Alex. Thompson, Kt.
Exchequer. } Sir Beaumont Hotham, Knt. Sir Rich. Peryn, Kt.

Sir John Scott, Knt. Attor. Gen. Sir John Mitford, Knt. Solic. Gen.

The REGAL Table.

The Year, Month, and Day, when each King and Queen began to reign, accounting the Year to begin January 1.		Length of each Reign.			Number of Years expired since their Reigns ended.	
Kings Names	began to reign	Y.	M.	D.	end	Kings Names
William I.	1066 Oct. 14	20	10	26	712	William 1
William II.	1087 Sept. 9	12	10	24	699	William 2
Henry I.	1100 Aug. 2	35	3	29	604	Henry 1
Stephen	1135 Dec. 1	18	10	24	645	Stephen
Henry II.	1154 Oct. 25	34	8	11	610	Henry 2
Richard I.	1189 July 6	9	9	0	600	Richard 1
John	1199 April 6	17	0	13	583	John
Henry III.	1210 Oct. 19	56	0	28	527	Henry 3
Edward I.	1272 Nov. 16	34	7	21	492	Edward 1
Edward II.	1307 July 7	19	6	18	472	Edward 2
Edward III.	1327 Jan. 25	50	4	27	422	Edward 3
Richard II.	1377 June 21	22	3	8	400	Richard 2
Henry IV.	1399 Sept. 29	13	5	20	386	Henry 4
Henry V.	1413 Mar. 20	9	5	11	377	Henry 5
Henry VI.	1422 Aug. 31	38	6	4	338	Henry 6
Edward IV.	1461 Mar. 4	22	1	5	316	Edward 4
Edward V.	1483 April 9	0	2	13	316	Edward 5
Richard III.	1483 June 22	2	2	0	314	Richard 3
Henry VII.	1485 Aug. 22	23	8	0	29	Henry 7
Henry VIII.	1509 April 22	37	9	6	252	Henry 8
Edward VI.	1547 Jan. 28	6	5	8	246	Edward 6
Q. Mary I.	1553 July 6	5	4	11	241	Q. Mary 1
Q. Elizabeth	1558 Nov. 17	44	4	7	196	Q. Elizabeth 1
James I.	1603 Mar. 24	22	0	3	174	James 1
Charles I.	1625 Mar. 27	23	10	3	150	Charles 1
Charles II.	1649 Jan. 30	36	0	7	114	Charles 2
James II.	1685 Feb. 6	4	0	7	110	James 2
Will. 3. & M.	1689 Feb. 13	13	0	23	97	William 3
Q. Anne	1702 Mar. 8	12	4	24	85	Q. Anne 1
George I.	1714 Aug. 1	12	10	10	72	K. George 1
George II.	1727 June 11	33	4	14	39	K. George 2
George III.	1760 Oct. 25	Crowned Sept. 22, 1761.				

The Use of the following TABLE of the Moon's Southing, to find the Time of High-Water, and the Hour of the Night.

I. To find the Time of High-Water in most Parts of
E N G L A N D.

Take the Time of the Moon's Southing for the Day proposed, and to that add the Hours and Minutes which stand against the Place required in the following Table of Sea-Coasts, and the Sum will be the Time of High-Water at the Place required on that Day.

A Table of the Sea Coasts.

	H.	M.
Portsmouth, Queenborough, Southampton,	-	0 00
Rochester, Winchelsea, Flushing,	-	0 45
Downs, Gravesend, Ramkins, Guernsey,	-	1 30
Denbigh, Bell-Isle, Holy-Isle, Downs-Road,	-	2 15
London, Tinnmouth, Whitby, Hartlepool,	-	3 00
Scarborough, Berwick, Flushing, Staples,	-	3 45
Flamborough, Humber, Bridlington-Bay,	-	4 30
Plymouth, Ramsay, Newcastle, Severn,	-	5 15
Lynn, Fosdyke, Hull, Weymouth, Dartmouth, Cross-Keys,	6	00
Boston, Start-Point, Foulness, Bristol-Key,	-	6 45
Bridgewater, Milford Haven, Lizard, Wintertown,	7	30
Yarmouth, Isle of Wight, the Needles,	-	8 15
Isle of Man, Orkney, Pool, South-Foreland,	-	9 10
Dover, Harwich, Orfordness, Bullein,	-	10 10
Rye, Solebay, Margate-Road,	-	11 15

II. To find the Hour of the Night by the Shadow of the Moon on a Sun-Dial.

1. When the Shadow falls precisely on the Hour 12, then the Time of the Moon's Southing, found in the preceding Table, is the exact Time of Night. But in other Cases,

2. If the Shadow wants of 12, see how much it wants of it; which Time, subtracted from that of the Moon's Southing, leaves the Time of Night. *Note*, You must add 12 Hours to the Moon's Southing, if Need be.

3. If the Shadow has past 12, add the Time that it has past it to the Time of the Moon's Southing; the Sum will be the Time of Night required; abating 12 Hours from that Sum, if Need be.

A TABLE of the MOON'S SOUTHING, of excellent Use to

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

Spring Quarter begins - March 20d 2h 17m afternoon.
 Summer Quarter begins - June 21 0 3 afternoon.
 Autumn Quarter begins - Sept. 23 1 49 morning.
 Winter Quarter begins - Dec. 21 6 23 afternoon.

find the Time of High-Water, and the Hour of the Night.

M D	July		August		September		October		November		December		M D
	h	m	h	m	h	m	h	m	h	m	h	m	
1	10	m 31	o a 3		1 a 26		1 a 59		3 a 50		4 a 25		1
2	11	26	o	56	2	17	2	56	4	5	5	16	2
3	o a	22	1	49	3	8	3	55	5	47	6	1	3
4	1	18	2	39	4	1	4	56	6	40	6	44	4
5	2	13	3	28	4	57	5	57	7	27	7	24	5
6	3	5	4	17	5	55	6	55	8	11	8	8	6
7	3	55	5	7	6	54	7	50	8	52	8	42	7
8	4	44	5	59	7	54	8	40	9	32	9	23	8
9	5	31	6	55	8	51	9	26	10	12	10	6	9
10	6	20	7	53	9	44	10	9	10	52	10	51	10
11	7	11	8	53	10	33	10	50	11	34	11	40	11
12	8	4	9	52	11	19	11	30	morn		morn		12
13	9	1	10	48	morn		morn	o	18	o	32		13
14	10	1	11	41	o	2	o	10	1	4	1	25	14
15	11	1	morn		o	43	o	51	1	54	2	18	15
16	morn		o	30	1	23	1	34	2	46	3	10	16
17	o	o	1	15	2	3	2	19	3	39	4	o	17
18	o	56	1	57	2	45	3	6	4	32	4	48	18
19	1	47	2	37	3	28	3	57	5	23	5	34	19
20	2	34	3	17	4	14	4	50	6	13	6	21	20
21	3	18	3	58	5	4	5	44	7	2	7	8	21
22	3	59	4	40	5	57	6	38	7	50	7	57	22
23	4	39	5	25	6	51	7	31	8	38	8	50	23
24	5	19	6	12	7	47	8	23	9	28	9	47	24
25	5	59	7	4	8	42	9	13	10	21	10	49	25
26	6	42	7	59	9	37	10	4	11	18	11	53	26
27	7	28	8	55	10	30	10	55	o a	20	o a	57	27
28	8	18	9	52	11	22	11	48	1	24	1	56	28
29	9	11	10	49	o a	13	o a	44	2	28	2	51	29
30	10	8	11	43	1	5	1	43	3	29	3	40	30
31	11	5	o a	35			2	46			4	25	31

VENUS is an Evening Star till October 16; and then a Morning Star for the rest of the Year.

JUPITER is an Evening Star till May 30; then a Morning Star till December 17; after that an Evening Star.

Lunations.			M D	Jupiter sets	Venus sets
New Moon	6th day, at	4 morning	1	3 ^m 40	3 a 53
First Quarter	14th day, at	4 morning	7	3 14	4 6
Full Moon	21st day, at	6 afternoon	13	2 48	4 20
Last Quarter	28th day, at	11 morning	25	1 58	4 51

M D	W D	Holy Days, ☉ rises & sets	D's Longit.	D's Declin.	D rises & sets	Aspects and Weather
1	Tu	Circumcision	12 ^m 19	14 s 33	2 m 40	Weather rather frosty now about.
2	W		26 12 19	30 4 3		
3	Th	☉ rises 8h 3m	9 4 57	23 22 5	28	△ ♃ ♀
4	F		23 34 25	50 6 48		Sleet or showers.
5	S	<i>Old Christ. day</i>	6 59	26 46 7	55	
6	F	Epiphany	20 12 26	9 D sets		<i>Two day</i> △ ☉ ♃
7	M	<i>Plough Monday</i>	3 10	24 7 5	a 8	
8	Tu	<i>Lucian</i>	15 52 20	54 6 20		
9	W		28 18 16	49 7 35		♁ ♃ ♀, ♄ ♀ ♁
10	Th	☉ sets 4h 3m	10 31	12 7 8	46	♄ ☉ ♀, ♁ ♃ ♀
11	F		22 31 7	3 9 56		Cold winds,
12	S	<i>Old N. Year's d.</i>	4 24	1 45 11	5	♁ ☉ ♃
13	F	1 S. aft. Epiph.	16 13 3	n 34 morn		<i>Hila. C.T. beg.</i>
14	M	Oxf. T, begins	28 4 8	48 0 12		△ ♃ ♀ [☉ ♁ ♀
15	Tu	☉ rises 7h 52m	10 8 3	13 46 1	23	
16	W		22 1 18	17 2 35		with frost and snow.
17	Th	<i>Old Twelfth-d.</i>	4 11 42	22 8 3	50	
18	F	Q. Ch. b. day k.	17 31 24	5 5 3		Cloudy dull
19	S	[<i>Prisca</i>	0 4 26	35 6 16		☐ ♃ ♂
20	F	Septuages. Su.	14 24 26	38 7 17		weather.
21	M	<i>Agnes [Fabian</i>	28 26 25	0 D rises		
22	Tu	<i>Vincent</i>	12 46	21 45 5	a 5	Windy, but not bad weather.
23	W	Hil. Term be.	27 19 17	7 6 32		
24	Th		11 57	11 27 8	3	
25	F	Conv. St. Pauli	26 32 5	11 9 28		
26	S	☉ sets 4h 23m	11 0 1	s 20 10 53		
27	F	Sexag. Pr. Au.	25 16 7	41 morn		Windy still with sleet
28	M	[Fred. b.	9 18	13 35 0	19	
29	Tu	☉ rises 7h 32m	23 7 18	42 1 43		☐ ♃ ♀
30	W	K. Ch. I. mar.	6 42 22	45 3 1		or showers.
31	Th	☉ sets 4h 32m	20 5 25	30 4 26		

M	Saturn		Jupiter		Mars		Venus	
	Longit.	Declin.	Longit.	Declin.	Longit.	Declin.	Longit.	Declin.
1	23 ²⁵ 37	21 n 25	16 8 36	15 n 50	10 ♃ 46	4 n 26	11 ♃ 39	23 s 37
7	23	8 21 31	16 28	15 49	14 22	5 57	19 12 22	57
13	22	38 21 36	16 28	15 51	18 0	7 27	26 45	21 52
19	2	9 21 42	16 36	15 55	21 41	8 56	4 17	20 23
25	21	40 21 47	16 51	16 0	25 23	10 24	11 49	18 32

M	☉'s	☉'s	Observations
D	Longit.	Declin.	
1	11 11	23 s 0	Mercury stationary, as seen from the earth
2	12 12	22 54	
3	13 13	22 48	Twilight ends at 2m. past 6 o'clock
4	14 15	22 42	
5	15 16	22 35	
6	16 17	22 28	Jupiter south 45m. past 7 at night
7	17 18	22 21	
8	18 19	22 13	Saturn shines all night
9	19 21	22 4	
10	20 22	21 55	Jupiter stationary, as seen from the earth
11	21 23	21 46	
12	22 24	21 36	Seven stars south at 8 at night
F	23 25	21 26	Mars sets about 12 at night
14	24 26	21 15	
15	25 27	21 4	
16	26 29	20 53	An occultation of Jupiter by the Moon, at 49m. past 1 in the morning
17	27 30	20 41	
18	28 31	20 29	
19	29 32	20 16	Sun enters ☿ 8m. past 11 night
F	☿ 33	20 3	
21	1 34	19 50	Aldebaran south near 8 at night
22	2 35	19 36	Mercury stationary, as seen from the earth
23	3 36	19 22	
24	4 37	19 8	
25	5 38	18 53	Great Dog Star, south at 10 at night
26	6 39	18 38	
F	7 40	18 23	Orion's Girdle, south 44m. past 8 at night
28	8 40	18 7	
29	9 41	17 51	Georgian Planet, south near 3 in the morning
30	10 42	17 34	
1	11 43	17 12	

Lunations.				M	Jupiter	Venus
				D	fets	fets
New Moon	4th day, at	8 night		1	1 m 32	5 a 12
First Quarter	13th day, at	1 morning		7	1 8	5 30
Full Moon	20th day, at	5 morning		13	0 45	5 49
Last Quarter	26th day, at	8 night		19	0 23	6 5
				25	0 3	6 31

M	W	Holy Days, Orises & fets	D's Longit.	D's Declin.	D rises & fets	Aspects and Weather
1	F	☉ rises 7h 27m Pur. or Candl.	3 ^h 18	26 s 47	5 m 37	△ ♃ ♀
2	S	Quinq. Shro. S.	16 19	26 33	6 35	Windy with some frost.
3			29 10	24 53	7 26	
4	M	[Blas] Shrove Tuesd.	11 ^m 50	22 0	☉ fets	♁ ♃ ♀
5	Tu	Ash-Wednesd.	24 18	18 8	5 a 12	Agatha
6	W		6 ^h 35	13 34	6 24	□ ☉ ♃
7	Th		18 41	8 32	7 36	Frosty, fair and pleasant.
8	F	☉ fets 4h 46m	0 ^h 38	3 15	8 46	
9	S		12 29	2 n 7	9 53	
10	F	1 Sun. in Lent	24 16	7 23	11 3	
11	M		6 8 5	12 26	morn	Temperate
12	Tu	Term ends Ember Week	18 0	17 3	0 13	and more open weather.
13	W		0 II 8	21 5	1 26	
14	Th	Valen. [Old Can.]	12 33	24 16	2 40	
15	F		25 2	26 19	3 51	* ♂ ♀
16	S	☉ rises 7h 0m 2 Sun. in Lent	8 ^h 35	26 58	4 58	
17	F		22 18	26 2	5 53	
18	M		6 Ω 29	23 25	6 36	Cold winds begin to blow.
19	Tu	☉ fets 5h 6m	21 5	19 14	7 6	
20	W		5 ^h 58	13 47	D rises	
21	Th		21 0	7 29	7 a 1	□ ♂ ♀
22	F	☉ rises 6h 48m	6 ^h 1	0 44	8 31	
23	S		20 52	5 s 58	9 59	Frequent
24	F	3 S. in L. Mattha [Pr. Ad. Fr. b.]	5 m 26	12 16	11 29	* ♃ ♃, △ ♃ ♀
25	M		19 40	17 46	morn	[, * ♃ ♀
26	Tu		3 ^h 33	22 11	0 56	showers even
27	W		17 6	25 15	2 19	□ ♃ ♀
28	Th	☉ fets 5h 24m	0 ^h 20	26 51	3 34	to the end.

M D	Saturn		Jupiter		Mars		Venus	
	Longit.	Declin.	Longit.	Declin.	Longit.	Declin.	Longit.	Declin.
1	21 ²⁰ 8	21 n 53	17 8 17	16 n 9	29 45	12 n 3	20 ³⁰ 56	15 s 59
7	20 43	21 57	17 46	16 19	3 8 30	13 26	28 7	12 31
13	20 19	22 18	22 16	31 7	16 14	45 5	38 10	49
19	20 0	22 5	19 3	16 44	11 4	16 13	7 7	58
25	19 43	22 8	19 50	16 58	14 5	17 14	20 36	4 58

M D	☉'s		Observations
	Longit.	Declin.	
1	12 ³⁰ 44	17 s 0	Days have increased 1h. 23m.
2	13 45	16 43	Jupiter and Venus are both evening stars
F 14	46 16	25 8	Mercury's greatest elongation from Sun
4	15 47	16 8	
5	16 4	15 49	
0	17 48	15 31	
7	18 47	15 12	Jupiter sets at 1 in the morning
8	19 50	14 53	Venus sets near 6 at night
9	20 50	14 34	
F 21	51 14	14	
11	22 52	13 55	An occultation of Jupiter by the Moon,
12	23 52	13 35	24m. past 11 in the morning
13	24 53	13 15	Day breaks at 8m. past 5 morning
14	25 53	12 54	Orion's Girdle, south
15	26 54	12 34	
16	27 54	12 13	Sun enters ♋ 56m. past 1 afternoon
F 28	55 11	52	
18	29 55	11 31	Days have increased 2h. 33m.
19	0 ³⁰ 56	11 9	
20	1 56	10 48	
21	2 56	10 26	
22	3 56	10 4	Mars sets 34m. past 11 at night
23	4 57	9 42	
F 5	57 9	20	The Great Dog Star, south at 8 at night
25	6 57	8 58	
26	7 57	8 36	
27	8 58	8 13	Twilight ends 15m. past 7 at night
23	9 58	7 50	

Lunations.			M D	Jupiter sets	Venus sets
New Moon	6th day, at	2 afternoon	1	11 a 57	6 a 45
First Quarter	14th day, at	6 afternoon	7	11 41	7 6
Full Moon	21st day, at	3 afternoon	13	11 25	7 27
Last Quarter	28th day, at	8 morning	19	11 9	7 48
			25	10 53	8 8

M D	W D	Holy Days, ☉ rises & sets	☉'s Longit	☉'s Declin.	☉ rises & sets	Aspects and Weather
1	F	<i>David</i>	13 ^h 17	26 s 55	4 m 36	Temperate weather.
2	S	<i>Chad</i>	26	25 33	5 24	
3	F	4 or Midl. Sun.	8 ^m 34	22 56	5 56	* ♃ ♂
4	M		20 57	19 18	6 21	Brisk winds.
5	Tu	☉ rises 6h 27m	3 ^h 10	14 57	6 40	
6	W		15 15	9 57	☉ sets	
7	Th	<i>Perpetua</i>	27 13	4 41	6 a 36	♃ ♀ ♂
8	F		9 ^m 5	0 n 43	7 46	Fire March
9	S	☉ sets 5h 41m	20 53	6 4	8 54	△ ☉ ♃
10	F	5 Sun. in Lent	2 8 40	11 13	10 5	weather.
11	M		14 29	15 5	11 18	
12	Tu	<i>Gregory</i>	26 25	20 11	morn	* ☉ ♀
13	W	☉ rises 6h 11m	8 ^h 31	23 36	0 30	Fine for the season.
14	Th		20 53	26 0	1 42	
15	F	Cam. T. ends	13 ^m 35	27 9	2 51	△ ♃ ♀
16	S	Oxf. T. ends	16 44	26 49	3 48	
17	F	6 or Palm Sun.	0 ^h 21	24 54	4 34	St. Patr. * ♃ ♀
18	M	<i>Edw. K. W. S.</i>	14 28	21 25	5 10	Some cold
19	Tu		29 21	16 31	5 35	* ☉ ♂
20	W	☉ sets 6h 3m	3 ^m 59	10 31	5 56	☐ ♃ ♀ * ♂ ♀
21	Th	<i>Bened. Maun. T.</i>	29 11	3 48	☉ rises	♃ ☉ ♀
22	F	Good Friday	14 ^h 26	3 s 10	7 a 3	storms now
23	S		29 35	9 56	9 6	about.
24	F	Easter Day	14 ^m 28	16 21	10 39	
25	M	Ladyday. E. M.	28 59	21 4	morn	
26	Tu	Easter Tuesday	13 ^h 6	24 43	0 8	Nights rather
27	W		26 47	26 47	1 30	frosty, but
28	Th	☉ rises 5h 41m	10 ^h 3	27 15	2 38	fine days.
29	F		2 59	26 12	3 31	
30	S	☉ sets 6h 23m	5 ^m 36	23 50	4 9	☐ ♃ ♀
31	F	Low Sunday	17 59	20 23	4 35	

M	Saturn		Jupiter		Mars		Venus	
	Longit.	Declin.	Longit.	Declin.	Longit.	Declin.	Longit.	Declin.
1	19 ²⁵ 33	22 n 6	20 8 24	17 n 17	17 8 23	17 n 59	5 ♄ 35	2 s 56
7	19 22 22	11 21	26 17	23 21	10 19	4 3 ♃	2 0 n	
13	19 16 22	13 22	19 17	42 25	0 20	5 10	28 3	15
19	19 13 22	14 23	22 17	57 28	48 21	0 17	54 6	18
25	19 14 22	14 24	29 18	40 2	II 36 21	45 25	18 9	17

M	☉'s		☉'s	
	Longit.	Declin.	Longit.	Declin.
1	10 ♄ 58	7 s 25		
2	11 58	7 5		
F 12	58	6 42		
4	13 58	6 19		
5	14 58	5 56		
6	15 58	5 32		
7	16 58	5 9		
8	17 58	4 46		
9	18 58	4 22		
1	19 58	3 59		
11	20 58	3 35		
12	21 58	3 12		
13	22 57	2 48		
14	23 57	2 24		
15	24 57	2 1		
16	25 56	1 37		
F 26	56	1 13		
18	27 55	0 50		
19	28 55	0 26		
20	29 54	0 2		
21	0 ♃ 54	0 n 21		
22	1 53	0 45		
23	2 53	1 9		
F 3	52	1 32		
25	4 51	1 56		
26	5 51	2 19		
27	6 50	2 43		
28	7 49	2 43		
29	8 48	3 6		
30	9 47	3 53		
1	10 46	4 16		

Observations

Jupiter and Mars may be seen nearly together in the west after sun-set

Day 11h. and 2m. long

Days have increased 3h. 27m.

Mars shines till near 12 at night

Mars is getting east of Jupiter very fast

Day break at 15m. past 4 morning

Saturn south, 39m. past 7 at night

Twilight ends about 8 at night

Sun enters ♃ at 17m. past 2 afternoon

Saturn stationary, as seen from the earth

Mercury under the sun-beams

The Georgian Planet south, 15m. past 11 at night

Day increased 4 hours and 51 minutes

Saturn shines till 3 in the morning

Lunations.			M	Jupiter	Venus
			D	fets	fets
New Moon	5th day, at	7 morning	1	10 a 35	8 a 33
First Quarter	13th day, at	8 morning	7	10 20	8 54
Full Moon	19th day, at	midnight	13	10 5	9 15
Last Quarter	26th day, at	9 night.	19	9 56	9 3
			25	9 36	9 56

M	W	Holy Days,	D's	D's	D rises	Aspects and Weather
D	D	☉ rises & fets	Longit.	Declin.	& fets	
1	M	☉ rises 5h 33m	0 X 10	16 s 8	4 m 56	
2	Tu	[Ca. T. be.	12 12	11 18	5 11	Fruitful
3	W	Richard. Ox. &	24 8	6 5	5 23	showers of
4	Th	Ambrose	5 V 59	0 42	5 35	Rain.
5	F	Old Lady Day	17 48	4 n 43	☉ fets	
6	S		29 36	9 58	8 a 0	Some cold
7	F	2 S. aft. Easter	11 8 25	14 54	9 12	winds about
8	M	☉ fets 6h 41m	23 19	19 17	10 28	this Time.
9	Tu		5 II 19	22 57	11 42	☐ ☉ ♀
10	W	Easter Term b.	17 30	25 38	morn	
11	Th		29 54	27 8	0 50	
12	F	☉ rises 5h 12m	12 26 37	27 15	1 51	Fine for the
13	S		25 41	25 53	2 40	season of the
14	F	3 S. aft. Easter	9 Ω 11	23 1	3 18	* ♀ ♀
15	M		23 6	18 45	3 44	year and very
16	Tu	☉ fets 6h 56m	7 III 29	13 19	4 7	pleasant.
17	W		22 14	6 59	4 26	
18	Th		7 17	0 7	4 41	
19	F	Alphege	22 29	6 s 49	☉ rises	
20	S		7 m 40	13 23	8 a 10	Rather windy
21	F	4 Sun. af. East.	22 41	19 5	9 46	* ♀ ♀
22	M		7 f 24	23 30	11 14	♂ ♀ ♀
23	Tu	St. George	21 4	26 19	morn	now about.
24	W		5 V 35	27 24	0 32	
25	Th	St. Mark. Prs.	19 1	26 48	1 34	
26	F	[Mary b.	2 24	24 44	2 17	
27	S	☉ rises 4h 44m	14 41	21 30	2 47	Some showers
28	F	Rogation Sun.	27 2	17 23	3 9	near this
29	M		9 X 9	12 39	3 25	* ♀ ♀
30	Tu	☉ fets 7h 22m	21 6	7 30	3 39	Time.

M	Saturn		Jupiter		Mars		Venus	
	Longit.	Declin.	Longit.	Declin.	Longit.	Declin.	Longit.	Declin.
1	19 ²⁰	22 n 14	25 ⁴	51 ¹⁸ n 35	7 ^{II}	22 n 40	3 8 54	12 n 35
7	19 29	22 13 27	4 18	53	10	50 23 16	11 15 15	14
13	19 43	22 12 28	20 19	11 14	38 23	47 18	35 17	39
19	20 0	22 10 29	37 19	29 18	25 24	11 25	53 19	48
25	20 20	22 7 0 II	56 19	46 22	13 24	28 3 II	9 21	38

M	☉'s	☉'s
D	Longit.	Declin.

Observations

1	11 ⁴	4 n 39
2	12 45	5 2
3	13 44	5 25
4	14 43	5 48
5	15 42	6 11
6	16 41	6 34
F	17 40	6 56
8	18 38	7 19
9	19 37	7 41
10	20 36	8 3
11	21 35	8 25
12	22 34	8 47
13	23 32	9 9
F	24 31	9 31
15	25 30	9 52
16	26 28	10 13
17	27 27	10 35
18	28 25	10 55
19	29 24	11 16
20	0 8 22	11 37
F	1 20	11 57
22	2 19	12 17
23	3 17	12 37
24	4 16	12 57
25	5 14	13 17
26	6 12	13 36
27	7 10	13 55
F	8 9	14 14
29	9 7	14 33
30	10 5	14 51

Saturn, Jupiter, Mars, and Venus, all to be seen in the west after sun-set

Day break 30m. past 3 morning
Twilight ends at 40m. past 8 o'clock

Virgin's Spike south, at 12 at night

Moon eclipses a star, at 41m. past 10 at night

Georgian Planet south, at 10 at night

Mercury's greatest elongation from the Sun, and sets after him

Twilight ends 10m. past 9 o'clock

Sun enters 8 56m. past 2 morning

Days have increased 6 hours 39 min.

Mercury stationary, as seen from the earth

Saturn sets 15m. past 1 morning

Mars sets 35m. past 11 at night

Lunations.		M	Jupiter	Venus
		D	fets	fets
New Moon	4th day, at midnight	1	7 21	10 a 15
First Quarter	12th day, at 5 afternoon	7	9 5	10 31
Full Moon	19th day, at 8 morning	13	8 49	10 44
Last Quarter	26th day, at 11 morning	19	8 33	10 53
		25	8 16	11 c

M	W	Holy Days,	D's	D's	D rises	Aspects and
D	D	☉ rises & sets	Longit	Declin.	& sets	Weather
1	W	St. Phil. & Jam.	2 29 56	2 s 8	3 m 51	
2	Th	Afc. or H. Th.	14 44	3 n 18	4 1	May comes in
3	F	<i>Inv. of the Cross</i>	26 32	8 37	4 13	rather cold.
4	S		8 8 23	13 40	D sets	
5	F	Su. aft. Ascen.	20 19	18 15	8 a 23	
6	M	<i>John Ev. Term</i>	2 11 21	22 9	9 35	
7	Tu	[ends]	14 33	25 7	10 46	♁ ☉ ♀
8	W	☉ rises 4h 25m	26 55	26 55	11 50	Windy, but
9	Th	Oxford Ter. e.	9 22 31	27 23	morn	fine for the
10	F		22 22	26 25	0 43	
11	S	☉ sets 7h 40m	5 23 30	23 58	1 23	season.
12	F	Whit Sunday	18 58	20 10	1 53	<i>O. Mayd.</i> * ☉ ♃
13	M	Whit Monday	2 11 46	15 13	2 16	
14	Tu	Whit Tuesday	16 54	9 21	2 34	Very good Spring
15	W	Ember Week	1 22 22	2 51	2 49	weather.
16	Th		16 5	3 s 55	3 4	
17	F	Prs. Wales b.	0 m 59	10 34	3 19	
18	S	☉ rises 4h 9m	15 56	16 39	3 36	Fine and
19	F	Trin. Sun. Q.	0 2 49	21 42	D rises	<i>Dunstan</i>
20	M	[Char. b.]	15 25	25 17	10 a 9	pleasant for some
21	Tu	☉ sets 7h 55m	29 51	27 9	11 20	days.
22	W	Prs. Elizab. b.	13 49	27 12	morn	Oxford Ter. b.
23	Th	Corpus Christi	27 21	25 37	0 12	
24	F	Term begins	10 28	22 41	0 49	More cool, with
25	S	☉ rises 4h 0m	23 11	18 44	1 14	frequent showers
26	F	1 Sun. a. Trin.	5 28 34	14 5	1 32	<i>Augustin</i>
27	M	<i>Venerable Bede</i>	17 42	8 58	1 46	
28	Tu		29 38	3 37	1 59	♁ ♂ ♀
29	W	King Ch. 2 re.	11 28	1 n 40	2 10	near the end.
30	Th		23 15	7 11	2 20	♁ ☉ ♃
31	F	☉ sets 8h 6m	5 8 5	12 19	2 33	* ♀ ♀

D	Saturn	Jupiter	Mars	Venus.				
M	Long.	Declin.	Long.	Declin.	Long.	Declin.	Long.	Declin.
1	20 ⁵ 44	22 n 4	2 II 17	20 n 3	26 II 0	24 n 39	10 II 24	23 n 7
7	21 11 22	0	3 39	20 20	29 47	24 43	17 37	24 14
13	21 41 21	56	5 2	20 36	3 ⁵ 34	24 40	24 48	24 56
19	22 13 21	51	6 25	20 51	7 21	24 31	1 ⁵ 57	25 12
25	22 48 21	46	7 49	21 5	11 7	24 15	9 3	25 3

D	Sun's	Sun's
M	Longit.	Declin.

Observations

1	11 8 3	15 n 10	Venus shines in the west till past 10 at night.
2	12 1 15	28	
3	12 59 15	45	
4	13 58 16	3	Sun eclipsed, invisible.
F	14 56 16	20	
6	15 54 16	37	
7	16 52 16	54	The planet Mercury may be seen in the Sun, the 7th day, for more than 7 hours.
8	17 50 17	10	
9	18 48 17	26	Day breaks near 2 in the morning.
10	19 45 17	42	Twilight ends 32 min. past 10 o'clock.
11	20 43 17	57	
F	21 41 18	12	Day 15 hours 20 min. long.
13	22 39 18	27	
14	23 37 18	42	Virgin's Spike south at half past 9 at night.
15	24 35 18	56	
16	25 32 19	10	
17	26 30 19	24	
18	27 28 19	37	Days have increased 7 hours 59 minutes.
F	28 25 19	50	
20	29 23 20	2	Mercury stationary, as seen from the earth.
21	0 II 21	15	
22	1 18 20	27	Sun enters II 25 min. past 3 in the morning, the 21st day.
23	2 16 20	38	
24	3 13 20	49	
25	4 11 21	0	Venus shines till 11 at night.
F	5 8 21	11	
27	6 6 21	21	Mars and Venus may now be seen in conjunction.
28	7 4 21	31	
29	8 1 21	40	
30	8 59 21	49	Jupiter is now under the Sun-beams.
31	9 56 21	58	

Lunations							M	Jupiter	Venus
D	rises	fets	D	rises	fets	D	rises	fets	
New Moon 3d day, at 3 afternoon.							1	3 m 52	11 a 5
First Quarter 10th day, at 11 night.							7	3 34	11
Full Moon 17th day, at 4 afternoon.							13	3 15	10
Last Quarter 25th day, at 3 morning.							19	2 54	10
							25	2 31	10 37
M	W	Holy-Days	Moon's	Moon's	D	rises	Aspects and		
D		☉ rises & fets	Longit.	Declin.	& fets		Weather		
1	S	Nicomede	17 8	17 n 3	2m 45				
2	F	2. S. af. Trin.	29	5 21 10	3 3	Warm weather			
3	M	☉ rises 3 51	11	11 20 24	26	☽ fets	now about.		
4	T	K. Geo. 3 bo.	23	48 26 33	9 a 42				
5	W	Pr. Er. Au. b.	6	28 27 22	10 39	Cloudy, with			
6	T	[Boniface	19	23 26 42	11 22	♁ ♃ ♄			
7	F		2	31 24 34	11 56	* ♃ ♄			
8	S	☉ fets 8 13	15	53 21 3	morn	flying showers.			
9	F	3 S. aft. Trin.	29	28 16 23	0 19				
10	M		13	17 10 49	0 38				
11	T	St. Barnabas	27	19 4 37	0 53	Fair and hot			
12	W	Term ends	11	32 1 s 54	1 7	about this			
13	T		25	55 8 25	1 21	time.			
14	F	☉ rises 3 44	10	26 14 33	1 37				
15	S		24	59 19 53	1 56				
16	F	4 S. af. Trin.	9	31 24 1	2 20	♁ ♃ ♄			
17	M	St. Alban	23	55 26 34	☽ rises	Thunder			
18	T	☉ fets 8 17	8	5 27 20	9 a 55	showers now			
19	W		21	57 26 22	10 40	about.			
20	T	Tr. E ^d . K. W. S.	5	27 23 51	11 10	♁ ♃ ♄			
21	F	Longest day	18	34 20 10	11 31				
22	S		1	19 15 38	11 48				
23	F	5 S. af. Trin.	13	43 10 34	morn				
24	M	Nat. J. Bapt.	25	52 15 11	0 0	Cooling gales			
25	T	[Midsum.	7	49 0 n 16	0 12	* ♃ ♄			
26	W	☉ rises 3 44	19	39 5 41	0 23	of wind.			
27	T		1	8 28 10 54	0 34				
28	F	☉ fets 8 16	13	20 15 45	0 47				
29	S	St. Peter	25	21 20 4	1 3	Some showers.			
30	F	6 S. af. Trin.	7	33 23 34	1 23				

WING.

June, 1799.

19

D		Saturn		Jupiter		Mars		Venus								
M	Long.	Decl.	Long.	Decl.	Long.	Decl.	Long.	Decl.								
1	23 ³²	21	n 39	9	11 ²⁷	21	n 21	15	26 ³¹	23	n 49	17	26 ¹⁸	24	n 21	
7	24	11	21	32	10	51	21	34	19	18	23	19	24	18	23	19
13	24	52	21	26	12	14	21	46	23	4	22	43	1	16	21	55
19	25	35	21	19	13	37	21	57	26	50	22	2	8	9	20	10
25	26	19	21	11	14	59	22	6	0	36	21	15	14	59	18	8

D	Sun's	Sun's	Observations			
M	Longit.	Declin				
1	10	11 ⁵⁴	22	n	6	Sun due east 16 min. past 7 o'clock.
F	11	51	22		14	
3	12	48	22		22	Mercury's greatest elongation from the Sun, and rises before him.
4	13	46	22		29	
5	14	43	22		35	
6	15	41	22		42	All day-light or twilight till July the 20th.
7	16	38	22		48	
8	17	36	22		53	Saturn and Venus in conjunction.
F	18	33	22		58	
10	19	30	23		3	Scorpion's Heart south.
11	20	27	23		7	
12	21	25	23		11	Sun due east 19 min. past 7 o'clock.
13	22	22	23		15	
14	23	19	23		18	Days have increased 8 hours 46 minutes.
15	24	17	23		21	Saturn sets 20 min. past 10 at night.
F	25	14	23		23	Clocks with the Sun this day.
17	26	11	23		25	
18	27	8	23		26	
19	2 ⁸	5	23		27	Mars sets 12 min. past 10 at night.
20	29	1	23		28	
21	0 ⁵⁶	0	23		28	Sun enters φ at 3 min. past 12 at noon.
22	0	57	23		28	
F	1	54	23		27	Scorpion's Heart south near 10 at night.
24	2	52	23		26	Longest day at Stamford 16 hours 36 min.
25	3	49	23		25	
26	4	46	23		23	Venus sets 36 min. past 10 at night.
27	5	43	23		21	
28	6	40	23		18	
29	7	38	23		15	Shining Harp south at midnight.
F	8	35	23		11	

		Lunations					M	Jupiter	Venus
							D	rises	fets
		New Moon 3d day, at 3 morning.					1	2m 11	10 a 25
		First Quarter 10th day, at 4 morning.					7	1 49	10 12
		Full Moon 17th day, at 1 morning.					13	1 28	9 58
		Last Quarter 24th day, at 9 night.					19	1 7	9 42
							25	0 52	9 25
M	W	Holy-Days	Moon's	Moon's	D	rises	Aspects and		
D	D	☉ rises & fets;	Longit.	Declin.	& fets	& fets	Weather		
1	M	☉ rises 3 45	20 11	1 26 n	3 1 m	50			
2	T	Visitat. Cam.	20 45	27 15	2 29		Fine dry		
3	W	Dog d. b. [Co.	15 46	26 59	D fets		weather.		
4	T	Tra. S. Mart.	29 4	25 10	9 a	52	♁ ☉ ♀		
5	F	Cam. T. ends	12 2	36 21	55 10	17	Fair and hot		
6	S	[Old Midl.	26 20	17 25	10 38		about this		
7	F	7 S. Tr. Tho. à	10 12	13 11	57 10	54	time.		
8	M	Ox. Act. [Bec.	24 12	5 51	11 9				
9	T		8 17	0 s	35 11	22			
10	W	☉ fets 8 9	22 24	7 1	11 37				
11	T		6 m	34 13	8 11	55	♁ ♃ ♀		
12	F		20 45	18 35	morn		Windy, but		
13	S	Oxf. T. ends	4 4	54 22	58 0	15	not bad hay		
14	F	8 S. af. Trin.	19 1	25 57	0 45		weather.		
15	M	Swithin	3 1	0 27	17 1	28			
16	T		16 49	26 53	2 25				
17	W	☉ rises 3 59	0 24	24 53	D rises				
18	T	☉ fets 8 0	13 42	21 33	9 37				
19	F		26 41	17 13	9 47				
20	S	Marg:ret	9 20	12 14	10 2		Wind and		
21	F	9 S. af. Trin.	21 43	6 53	10 14		rain, if not		
22	M	Magdalen	3 50	1 22	10 25		♁ ☉ ♃, ♁ ♃ ♀		
23	T		15 46	4 n	7 10	37	thunder,		
24	W	☉ rises 4 7	27 36	9 26	10 48		* ♃ ♀		
25	T	St. James'	9 8	24 14	25 11	2	about this		
26	F	St. Anne	21 18	18 53	11 20		time.		
27	S		3 11	21 22	39 11	45			
28	F	10 S. af. Trin.	15 39	25 28	morn				
29	M		28 15	27 6	0 20		* ♃ ♀, ☐ ♃ ♀		
30	T		11 13	27 18	1 7		Fine weather.		
31	W	☉ fets 7 42	24 31	25 57	2 10				

Saturn		Jupiter		Mars		Venus																
M	Long.	Decl.	Long.	Decl.	Long.	Decl.	Decl.															
1	27	3	21	3	16	11	19	22	n	15	4	22	20	n	22	21	2	44	15	n	51	
7	27	49	20	54	17	39	22	23	8	9	19	25	28	23	13	22						
13	28	35	20	46	18	56	22	31	11	55	18	23	4	25	10	42						
19	29	22	20	36	20	12	22	37	15	42	17	16	11	23	7	56						
25	30	8	20	27	21	26	22	42	19	29	16	5	17	41	5	4						

Sun's		Observations	
M	Longit.	Declin.	

1	9	32	23	n	7	Day 16 hours and 30 min. long.
2	10	29	23		3	
3	11	27	22		5	8
4	12	24	22		5	3
5	13	21	22		4	Venus and Regulus in conjunction, and sets late at night.
6	14	18	22		4	2
F	15	15	22		3	6
8	16	13	22		2	Sun due east 18 min. past 7 o'clock.
9	17	10	22		2	
10	18	7	22		1	Days have decreased 17 minutes.
11	19	4	22		6	Saturn sets 37 min. past 8 at night.
12	20	2	21		5	8
13	20	59	21		5	0 Shining Harp south at 11 at night.
F	21	56	21		4	1
15	22	53	21		3	1
16	23	50	21		2	Mars sets 6 min. past 9 at night.
17	24	48	21		1	Venus shines near 10 at night
18	25	45	21		1	Day is 16 hours long at Stamford.
19	26	42	20		5	0
20	27	39	20		3	9
F	28	37	20		2	8
22	29	34	20		1	6 Sun enters ♉ at 53 min. past 10 at night.
23	30	31	20		4	Days have increased 46 minutes.
24	1	29	19		5	1 Day break 40 min. past 12 o'clock.
25	2	26	19		3	8
26	3	23	19		2	5
27	4	21	19		1	2 Mercury is in conjunction with Regulus and sets after the Sun.
F	5	18	18		5	8
29	6	16	18		4	4
30	7	13	18		2	9
31	8	10	18		1	5 Days have decreased 1 hour 10 minutes.

Lunations							M	Jupiter	Venus
D	rises	sets	D	rises	sets	D	rises	sets	
	New Moon 1st day, at 2 afternoon.						1	om 32	9 a 6
	First Quarter 8th day, at 9 morning.						7	o 11	8 49
	Full Moon 15th day, at noon.						13	11 49	8 31
	Last Quarter 23d day, at 2 afternoon.						19	11 28	8 13
	New moon 30th day, at 11 night.						25	11 6	7 55
M	W	Holy-Days	Moon's	Moon's	riser	Aspects and			
D	D	☉ rises & sets	Longit.	Declin.	& sets	Weather			
1	F	Lammas day	8 Ω 11	23 n 4	☽ sets				
2	F		22 8	18 48	8 a 39	Good weather			
3	S	☉ rises 4 22	6 ♁ 17	13 26	8 59	to begin the			
4	F	11 S. af. Trin.	20 34	7 18	9 14	harvest.			
5	M		4 ♁ 54	0 46	9 29				
6	F	Transfigurat.	19 12	5 s 48	9 43				
7	W	Prs. Ameliab.	3 ♁ 25	12 3	9 59				
8	T	[Na. of Jes.	17 32	17 39	10 19	* ♃ ♀			
9	F	☉ sets 7 28	1 ♄ 32	22 15	10 46	Some gentle			
10	S	St. Lawre. ce	15 24	25 31	11 23	showers of			
11	F	12 Tr. Du. B.	Dog d. e.	27 14	morn	rain.			
12	M	Pr. Wales b.	12 ♃ 44	27 17	0 15				
13	F	[Old Lam.	26 8	25 44	1 20				
14	W		9 ♁ 21	22 46	2 36				
15	F	Assumption	22 19	18 43	☽ rises				
16	F	D. of York b.	5 ♁ 3	13 54	8 a 10	I expect			
17	S	☉ rises 4 46	17 32	8 35	8 22	some thunder			
18	F	13 S. af. Trin.	29 47	3 3	8 34	* ☉ ♃			
19	M		11 ♁ 50	2 n 31	8 46	showers near			
20	T	☉ sets 7 8	23 43	7 57	8 59	this time.			
21	W	D. of Clar. b.	5 ♁ 31	13 4	9 12				
22	T		17 19	17 47	9 27				
23	F	☉ rises 4 57	29 12	21 41	9 49				
24	S	St. Bartholo.	11 ♁ 14	24 49	10 19	C lousy and			
25	F	14 S. af. Trin.	23 33	26 51	10 59	wind.			
26	M		6 ♁ 12	27 35	11 54				
27	T		19 14	26 48	morn	Very fine near			
28	W		2 Ω 42	24 29	1 6	the end.			
29	T		16 35	20 40	2 25				
30	F		0 ♁ 51	15 34	☽ sets				
31	S	☉ sets 6 48	15 23	9 31	7 a 25				

August, 1799.

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WING.

D Saturn		Jupiter		Mars		Venus.						
M	Long.	Decl.	Long.	Decl.	Long	Decl.	Long	Decl.				
1	♏ 2	20 n	16 22	♏ 48	22 n	47 23	♏ 54	14 n	38 24	♏ 49	1 n	40
7	1 48	20 6	23 56	22 51	27 42	13 20	♏ 43	11 59	6 22	4 5	1 s	14
13	2 34	19 57	25 0	22 54	11 30	10 34	11 43	6 51	9 30	9 30		
19	3 19	19 47	26 1	22 56	5 19	9 7	16 41					
25	4 2	19 37	26 58	22 58	9 9							

D	Sun's	Sun's	Observations	
M	Longit.	Declin.		
1	♏ 8	18 n	0	
2	10	5 17	44	Day breaks at 27 min. past 1 o'clock.
3	11	3 17	29	Twilight ends at 28 min. past 10 o'clock.
F	12	0 17	13	
5	12	58 16	57	The planet Mars is now very near Regulus, and sets after the Sun.
6	13	55 16	40	
7	14	53 16	23	
8	15	51 16	6	Venus's greatest elongation from the Sun, as seen from the earth.
9	16	48 15	49	
10	17	46 15	32	
F	18	43 15	14	
12	19	41 14	56	Shining Harp south, at 9 at night.
13	20	39 14	38	
14	21	36 14	19	Mercury's greatest elongation from Sun, as seen from the earth.
15	22	34 14	0	
16	23	32 13	42	
17	24	29 13	22	Days have decreased 2 hours 5 min.
F	25	27 13	3	
19	26	25 12	44	Saturn rises 30 min. past 2 morning.
20	27	23 12	24	Jupiter rises 24 min. past 11 at night.
21	28	20 12	4	Mars sets 26 min. past 7 at night.
22	29	18 11	44	
23	♏ 16	11 23		Sun enters ♏ at 17 min. past 5 morning.
24	1	14 11	3	
F	2	12 10	42	
26	3	10 10	21	Day breaks 50 min. past 2 o'clock.
27	4	8 10	0	Mercury stationary, as seen from the earth.
28	5	6 9	39	
29	6	4 9	18	
30	7	2 8	56	Day 13 hours 40 min. long.
31	8	0 8	35	

Lunations				M	Jupiter	Venus
D	D	ris	fets	ris	fets	fets
First Quarter 6th day, at 3 afternoon.				11	10 a 52	7 a 32
Full Moon 14th day, at 3 morning.				7	10 33	7
Last Quarter 22d day, at 7 morning				13	10 14	6 49
New Moon 29th day, at 8 morning.				19	9 55	6 26
25	9	37	6	2		
M	W	Holy-Days	Moon's	Moon's	D rises	Aspects and
D	D	☉ rises & fets	Longit.	Declin.	& fets	Weather
1	F	15 Tr. Giles	0 5	2 n 52	7 a 38	Fine for a late harvest.
2	M	Lond. bt. 1666	14 49	3 s 58	7 54	
3	T		29 28	10 34	8 11	
4	W	☉ rises 5 20	13 m 57	16 32	8 30	
5	T	☉ fets 6 38	28 12	21 29	8 55	
6	F		12 † 13	25 8	9 28	
7	S	Enurchus	25 59	27 12	10 14	Windy, and
8	F	16 Tr. Nativ.	9 † 30	27 37	11 18	some
9	M	[V. M.	22 48	26 24	morn	♂ ♂ ♀
10	T		5 † 51	23 47	0 31	♂ ☉ ♀
11	W	☉ rises 5 34	18 43	20 1	1 50	showers near
12	T		1 † 21	15 23	3 7	this time.
13	F		13 48	10 12	4 25	
14	S	Holy Crofs.	26 3	4 42	D rises	
15	F	17 S af. Trin.	8 v 8	0 n 55	7 a 1	♂ ☉ ♂, Δ ♀ ♀
16	M		20 4	6 26	7 13	Fine for the
17	T	Lambert	1 8 54	11 41	7 25	season, and
18	W	Ember Week	13 41	16 31	7 40	very pleasant.
19	T	☉ fets 6 11	25 28	20 43	7 59	
20	F		7 II 18	24 8	8 25	
21	S	St. Matthew	19 21	26 31	9 0	
22	F	18 T. K. Geo.	1 5 38	27 42	9 46	Fine, fair, and
23	M	[3 cro.	14 14	27 28	10 51	☐ ☉ ♀
24	T	☉ rises 5 59	27 13	25 46	morn	pleasant.
25	W	Old Holy Ro.	10 Ω 40	22 34	0 7	
26	T	St. Cyprian	24 35	18 1	1 31	
27	F		8 † 56	12 20	3 0	☐ ♀ ♂
28	S	☉ fets 5 53	23 39	5 49	4 29	Some showers.
29	F	19 Tr. St. Mic.	8 † 37	1 s 8	D fets	
30	M	[Prs. Wir. b.	Jerome	8 5	6 a 24	* ☉ ♀

D.	Saturn		Jupiter		Mars		Venus	
M	Long.	Decl.	Long.	Decl.	Long.	Decl.	Long.	Decl.
1	48 52	19 n 26	27 11 59	22 n 59	13 17 36	7 n 24	21 54	12 s 22
7	5 32	19 17	28 46	22 59	17 27	5 52	25 41	14 33
13	6 11	19 8	29 23	23 0	21 18	4 21	28 44	16 26
19	6 47	19 0	26 5	23 0	25 10	2 46	om 17	17 53
25	7 22	18 52	0 36	23 0	29 2	1 13	1 39	18 49

D.	Sun's		Sun's		Observations
M	Longit.	Declin.	Longit.	Declin.	
F	8 59	8 n 13			
2	9 57	7 51			
3	10 55	7 29			Day breaks 13 min. past 3 o'clock.
4	11 53	7 7			Moon eclipses a small star 56 min. past 6 at night.
5	12 51	6 44			Night 10 hours 48 min. long.
6	13 50	6 22			
7	14 48	6 0			
F	15 46	5 37			Jupiter rises at half past 10 at night.
9	16 45	5 14			
10	17 43	4 52			Mars and Mercury both under the Sun-beams.
11	18 42	4 29			
12	19 40	4 6			
13	20 38	3 43			Saturn rises near 2 o'clock in the morning.
14	21 37	3 20			
F	22 35	2 57			Venus shines in the west after Sun-set.
16	23 34	2 33			
17	24 33	2 10			
18	25 31	1 47			Day breaks 52 min. past 3 o'clock.
19	26 30	1 24			
20	27 29	1 0			Mercury stationary, as seen from the earth.
21	28 27	0 37			
F	29 26	0 13			
23	0 25	0 s 10			Sun enters \triangle at 49 min. past 1 in the morning.
24	1 24	0 33			
25	2 23	0 57			
26	3 22	1 20			Venus stationary, as seen from the earth.
27	4 21	1 44			
28	5 20	2 7			Days have decreased 4 hours 48 minutes.
F	6 19	2 31			
30	7 18	2 54			

Lunations				M	Jupiter	Venus	
D	D	risef	sets	D	risef	sets	
First Quarter 5th day, at midnight.				1	9 a 17	5 a 35	
Full Moon 13th day, at 7 afternoon.				7	8 56	5 11	
Last Quarter 21st day, at 11 night.				13	8 34	4 46	
New Moon 28th day, at 6 afternoon.				19	8 12	4 21	
25	7	50	3	57			
M	W	Holy-Days	Moon's	Moon's	D	rises	Affects and
D	D	risef & sets	Longit.	Declin.	& sets	Weather	
1	1	Remigius	8 m 42	14 s 34	6 a 41		Δ ♃ ♀
2	W		23 32	20 8	7 4		Some showers
3	T	☉ rises 6 17	8 ♀ 6	24 22	7 35		of rain.
4	F	☉ sets 5 41	22 19	26 59	8 18		
5	S		6 ♄ 9	27 50	9 17		
6	F	20 S. af. Trin.	19 39	26 59	10 28		Fine for the
7	M	[Faith	2 ☉ 48	24 39	11 46		□ ♃ ♀
8	T		15 39	21 7	morn		season.
9	W	St. Denys	28 15	16 41	1 5		* ♃ ♂
10	T	Ox. & Ca. T. b	10 X 37	11 38	2 21		Some wet
11	F	[Old Mic.	22 49	6 13	3 35		* ♃ ♀
12	S	☉ rises 6 34	4 ♃ 52	0 37	4 47		♃ ♂ ♀
13	F	21 Tr. Transf.	16 47	4 n 57	☉ rises		weather now
14	M	[K. Ed. C.	28 38	10 19	5 a 40		about.
15	T	☉ sets 5 20	10 8 26	15 18	5 56		
16	W		22 13	19 43	6 12		♃ ☉ ♀
17	T	Etheldred	4 II 23	22 6	34		Still showery
18	F	St. Luke	15 56	26 4	7 4		for the most
19	S		28 0	27 35	7 47		♃ ♀ ♀
20	F	22 S. af. Trin.	10 ☉ 16	27 48	8 43		part.
21	M		22 49	26 36	9 52		
22	T	☉ rises 6 54	5 ♃ 43	23 59	11 11		
23	W		19 20	20 3	morn		Stormy, cold,
24	T		2 m 48	14 56	0 34		Δ ☉ ♃, Δ ♃ ♀
25	F	K. Geo. 3 ac.	Crispin	8 52	2 0		♃ ☉ ♀, ♂ ♂ ♀
26	S	K. Geo. 3 pr.	1 ☉ 38	2 9	3 29		and windy.
27	F	23 S. af. Trin.	16 36	4 s 50	4 57		
28	M	St. Sim. & Jude	1 m 46	11 40	☉ sets		
29	T		16 59	17 50	5 11		□ ♃ ♀
30	W		2 ♀ 6	22 50	5 35		
31	T	☉ sets 4 50	16 58	26 14	6 15		

D	Saturn		Jupiter		Mars		Venus	
M	Long.	Decl.	Long.	Decl.	Long.	Decl.	Long.	Decl.
1	7 ^h 53	18 n 44	1 ^h 20	23 n 1	2 ^h 55	0 s 22	11 ^h 11	19 s 5
7	8 22	18 38	1 18	23 1	6 50	1 57	29 ^h 18	18 32
13	8 48	18 32	1 29	23 1	10 46	3 32	26 14	17 6
19	9 11	18 26	1 33	23 1	14 41	5 6	22 37	14 56
25	9 31	18 22	1 20	23 1	18 39	6 39	19 17	12 31

D	Sun's	Sun's	Observations					
M	Longit.	Declin.						
1	8 ^h 17	3 s 17						
2	9 16	3 41	Day breaks 20 min. past 4 o'clock.					
3	10 15	4 4	Twilight ends 35 min. past 7 o'clock.					
4	11 14	4 27	Day 11 hours 22 min. long.					
5	12 14	4 50	Night 12 hours 42 min. long.					
F 13	13 5	13						
7	14 12	5 36						
8	15 12	5 59	Day decreased 5 hours 27 min.					
9	16 11	6 22						
10	17 10	6 45						
11	18 10	7 8						
12	19 9	7 30	Saturn rises 48 min. past 11 at night.					
F 20	9 7	53						
14	21 8	15						
15	22 8	38	Jupiter rises 27 min. past 8 at night.					
16	23 7	0	Venus is now under the Sun-beams.					
17	24 7	22						
18	25 7	44						
19	26 6	5	Jupiter stationary, as seen from the earth.					
F 27	6 10	27						
21	28 6	49						
22	29 6	10	Twilight ends at 7 o'clock.					
23	om 5	31	Sun enters η at 51 min. past 9 morning.					
24	1 5	52						
25	2 5	13						
26	3 5	33	Mercury is now under the Sun-beams.					
I 4	5 12	54						
28	5 5	14	Sun eclipsed invifible.					
29	6 5	34	Days have decreased 6 hours 44 min.					
30	7 5	54	Saturn rises 46 min. past 10 at night.					
31	8 5	13						

Lunations				M	Jupiter	Venus	
D	rises	D	rises	D	rises	rises	
First Quarter 4th day, at noon.				1	7 a 22	5 m 16	
Full Moon 12th day, at 2 afternoon.				7	6 55	4 51	
Last Quarter 20th day, at noon.				13	6 29	4 28	
New Moon 27th day, at 4 morning.				19	6 3	4 8	
				25	5 39	3 51	
M	W	Holy-Days	Moon's	Moon's	D	rises	Affects and
D	D	☉ rises & sets	Longit.	Declin.	& sets		Weather
1	F	All Saints	1 27	27 s 47	7 a 9		☐ ☉ ☿
2	S	Pr. Ed. All So.	15 31	27 29	8 16		Some frosty
3	F	24 Tr. Prs So.	29 8	25 30	9 34		weather now
4	M	K. Wm. land.	12 19	22 11	10 54		about.
5	T	Powder Plot	25 8	17 54	morn		
6	W	Leon. Ter. be.	7 37	12 57	0 12		
7	T	☉ rises 7 23	19 50	7 35	1 27		
8	F	Prs. Aug. So.	1 52	2 3	2 38		Sleet or
9	S	L ^d . Mayor's d.	13 46	3 n 32	3 49		showers.
10	F	25 S. af. Trin.	25 35	8 57	4 59		
11	M	St. Martin	7 23	14 3	6 11		
12	T	Cam. T. d. m.	19 11	18 38	D rises		Δ 2 ☿
13	W	Britius	1 22	22 31	4 a 40		Frosty, and
14	T	☉ sets 4 24	12 58	5 29	5 8		more plea-
15	F	Machutus	25 1	27 19	5 46		fant.
16	S		7 12	27 51	6 36		
17	F	26 S. af. Trin.	19 35	27 1	7 41		
18	M	[Hugh	2 12	24 48	8 54		Δ 2 ☿
19	T	☉ rises 7 42	15 5	21 18	10 13		Cold, rough
20	W	Edmund	28 18	16 39	11 36		winds
21	T	☉ sets 4 14	11 53	11 5	morn		
22	F	Cecil. O. Mart.	25 51	4 48	0 59		
23	S	Clement	10 12	1 s 53	2 23		
24	F	27 S. af. Trin.	24 53	8 39	3 51		Rain or snow
25	M	D. Glo. b. Ca.	9 15	15 4	5 21		about
26	T	[charine	24 59	0 39	6 55		☐ ☿ ☿
27	W	☉ rises 7 52	10 6	24 51	D sets		* ☿ ☿
28	T	Term ends	25 4	27 18	4 a 45		this time.
29	F	☉ sets 4 4	9 44	27 46	5 49		
30	S	St. Andrew	24 0	26 21	7 6		Cloudy.

D	Saturn		Jupiter		Mars		Venus	
M	Long.	Decl.	Long.	Decl.	Long.	Decl.	Long.	Decl.
1	9 ^h 48 ^m 18 ⁿ 18		12 ^h 16 ^m 23 ⁿ 2		23 ^h 17 ^m 8 ⁿ 26		16 ^h 43 ^m 9 ⁿ 57	
7	9 59 18 16	0 57	23 2	27 16	9 56	16 3	8 20	
13	10 6 18 15	0 32	23 3	17 17	11 24	16 48	7 25	
19	10 10 18 15	0 0	23 3	5 18	12 49	18 50	7 9	
25	10 9 18 16	29 11 22	23 4	9 21	14 10	21 55	7 8	

D	Sun's		Observations	
M	Longit.	Declin.		

1	9 ^m 6 14 s 33		Venus is now the morning star, and	
2	10 6 14 52		rises at a quarter after 5 in the	
F 11	6 15 11		morning.	
4	12 6 15 29			
5	13 6 15 47			
6	14 7 16 6		Venus stationary, as seen from the earth.	
7	15 7 16 23		Day breaks 25 min. past 5 o'clock.	
8	16 7 16 41			
9	17 8 16 58		Jupiter rises by 7 at night, and shines	
F 18	8 17 15		till next morning.	
11	19 8 17 32			
12	20 9 17 48			
13	21 9 18 4			
14	22 10 18 20		Twilight ends 24 min. past 6 o'clock.	
15	23 10 18 35		Seven-Stars south soon after 12 at night.	
16	24 11 18 50			
F 25	11 19 5		Day breaks 39 min. past 5 o'clock.	
18	26 12 19 19			
19	27 13 19 34			
20	28 13 19 47		Days have decreased 8 hours.	
21	29 14 20 1		Saturn stationary, as seen from the earth.	
22	0 † 15 20 14		Sun enters † at 9 min. past 6 morning.	
23	1 16 20 26			
F 2	16 20 38		Moon eclipses Venus at 4 min. past 4 in	
25	3 17 20 50		the morning.	
26	4 18 21 2			
27	5 19 21 13		Saturn rises 53 min. past 8 at night.	
28	6 2 21 23			
29	7 21 21 34		Jupiter rises 16 min. past 5 at night.	
30	8 21 21 43			

Lunations						M	Jupiter	Venus
						D	rises	rises
First Quarter 4th day, at 3 morning.						1	5 a	3 m 46
Full Moon 12th day, at 9 morning.						7	4 39	3 43
Last Quarter 19th day, at 11 night.						13	4 10	3 44
New Moon 26th day, at 3 afternoon.						19	3 39	3 47
						25	3 7	3 53
M	W	Holy-Days,	Moon's	Moon's	D	rises	Aspects and	
D	D	☉ rises & sets	Longit.	Declin.	& sets	Weather		
1	F	Advent Sund.	7 ^m 47	23 s 22	8 a 27	Dull, dark		
2	M	☉ rises 7 58	21 6	19 15	9 49	Δ ☉ ♄		
3	T		3 ^x 59	14 21	11 7	weather, begins		
4	W	☉ sets 4 0	16 29	9 0	morn	Δ ♃ ♀		
5	T		28 41	3 27	0 22	the month.		
6	F	Nicholas	10 ^v 39	2 n 9	1 32			
7	S		22 30	7 37	2 41			
8	F	2 S. in Adv.	4 8 16	12 47	3 49	Sleet or		
9	M	[Concept.	16 4	17 31	5 0	showers now		
10	T		27 55	21 35	6 12	about.		
11	W	☉ rises 8 5	9 ^{II} 53	24 48	7 23			
12	T		21 59	26 55	☽ rises			
13	F	Lucy	4 ^{en} 16	27 46	4 a 22	Some foggy		
14	S		16 43	27 14	5 22	weather.		
15	F	3 S. in Adv.	29 21	25 17	6 35			
16	M	Ca. T. e. O. Sap.	12 Ω 11	22 2	7 53			
17	T	Oxf. Term e.	25 14	17 40	9 12	☉ ☃, ☐ ♄ ♀		
18	W	Ember Week	8 ^m 30	12 22	10 33	Frost and		
19	T	☉ sets 3 52	22 2	6 24	11 54	* ♀ ♄		
20	F		5 ^{en} 49	0 0	morn	snow about		
21	S	St Tho. Shor st	19 54	6 s 32	1 16	this time.		
22	F	4 S. Ad. day	4 ^m 14	12 52	2 40			
23	M		18 49	18 36	4 10			
24	T	☉ rises 8 8	3 ^z 35	23 17	5 43	Cloudy, dark		
25	W	Christmas day	18 24	26 26	7 11	♄ ☉ ♀		
26	T	St. Stephen	3 ^z 10	27 45	☽ sets	weather, with		
27	F	St. John	17 44	27 6	4 a 26	some frosts,		
28	S	Innocents	1 ^m 59	24 40	5 45	to the end.		
29	F	1 S. af. Chris.	15 50	20 51	7 13			
30	M	☉ sets 3 54	29 14	16 4	8 32			
31	T	Silvester	12 ^x 11	10 42	9 40			

D	Saturn		Jupiter		Mars		Venus	
M	Long.	Decl.	Long.	Decl.	Long.	Decl.	Long.	Decl.
1	10 ^Ω 4	18 ⁿ 19	28 ^Π 41	23 ⁿ 4	13 [♄] 25	15 ^s 29	25 [♁] 51	8 ^s 14
7	9 55	18 22	27 55	23 4	17 29	16 43	om 26	9 21
13	9 42	18 26	27 7	23 4	21 35	17 53	5 33	10 43
19	9 26	18 31	26 18	23 4	25 42	18 58	11 6	12 14
25	8 6	18 38	25 30	23 3	29 51	19 57	16 59	13 49

D	Sun's				Observations
M	Longit.	Declin.			
F	9 22	21 s	53		
2	10 23	22	2		Day breaks 54 min. past 5 o'clock.
3	11 24	22	10		Twilight ends 5 min. past 6 o'clock.
4	12 25	22	19		
5	13 26	22	26		Seven-Stars south 36 min. past 10 at night.
6	14 27	22	34		
7	15 28	22	40		Days have decreased 8 hours 38 min.
F	16 29	22	47		
9	17 30	22	53		Mercury's greatest elongation from Sun,
10	18 31	22	58		as seen from the earth, and sets after him.
11	19 32	23	3		
12	20 33	23	8		Jupiter shines gloriously all night; and now is the time to view his Moons and Belts.
13	21 34	23	12		
14	22 35	23	16		
F	23 37	23	19		
16	24 38	23	21		
17	25 39	23	24		Mercury stationary, as seen from the earth.
18	26 40	23	25		
19	27 41	23	27		Day now breaks about 6 o'clock.
20	28 42	23	28		
21	29 43	23	28		Sun enters ♋ at 33 min. past 6 at night.
F	om 44	23	28		
23	1 46	23	27		Now is a good time for viewing Saturn's Ring, as also his Moons.
24	2 47	23	26		
25	3 48	23	25		
26	4 49	23	23		Mercury is now under the Sun-beams.
27	5 50	23	20		
28	6 52	23	17		Venus's greatest elongation from the Sun,
F	7 53	23	14		as seen from the earth.
30	8 54	23	10		
31	9 55	23	6		Day increased 6 minutes.

The Eclipses of Jupiter's First

January				February				March				April			
Emerfions.				Emerfions.				Emerfions.				Emerfions.			
d.	h.	m.	s.	d.	h.	m.	s.	d.	h.	m.	s.	d.	h.	m.	s.
2	2	55	15	1	4	57	10	1	12	41	6	2*	9	31	53
3	21	23	18	2	23	25	55	3*	7	11	17	4	4	1	19
5	15	51	22	4	11	54	43	5	1	40	40	5	22	30	44
7*	10	19	30	6	12	23	32	6	20	10	3	7	17	0	10
9	4	47	37	8*	6	52	24	8	14	39	27	9	11	29	32
10	23	15	51	10	1	21	19	10*	9	8	51	11	5	58	59
12	17	44	0	11	19	50	18	12	3	38	16	13	0	28	18
14*	12	12	19	13	14	19	19	13	22	7	44	14	18	57	42
16*	6	40	36	15*	8	48	21	15	16	37	10	16	13	26	59
18	1	8	56	17	3	17	27	17	11	6	35	18*	7	56	17
19	19	37	19	18	21	46	33	19	5	36	6	20	2	25	34
21	14	5	43	20	16	15	40	21	0	5	32	21	20	54	50
23*	8	34	11	22*	10	44	53	22	18	35	4	23	15	24	1
25	3	2	42	24	5	14	11	24	13	4	31	25	9	53	15
26	21	31	15	25	23	43	21	26*	7	34	3	27	4	22	22
28	59	50	51	27	18	12	39	28	2	3	28	28	22	51	31
30*	10	28	29					29	20	32	59	30	17	20	38
								31	15	2	25				
May				June				July				August			
								Immerfions.				Immerfions.			
								1	13	50	46	2	10	23	31
								3	8	19	3	4	4	51	9
								5	2	47	20	5	23	13	50
								6	21	15	38	7	17	48	33
								8	15	43	58	9	12	17	13
								10	10	12	17	11	6	45	57
								12	4	40	35	13	1	14	46
								13	23	9	0	14	19	43	30
								15	17	37	23	16*	14	12	21
								17	12	5	47	18	8	41	12
								19	6	34	12	20	3	10	2
								21	1	2	42	21	21	38	55
								22	19	31	9	23	16	7	50
								24*	13	59	40	25	10	36	43
								26	8	28	12	27	5	5	39
								28	2	56	46	28	23	34	35
								29	21	25	18	30	18	3	32
								31	15	53	55				
The Eclipses of Jupiter's Satellites are not vifible this month, Jupiter being too near the Sun.				The Eclipses of Jupiter's Satellites are not vifible this month, Jupiter being too near the Sun.											

Satellite for 1799

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

N. B. Those marked with an asterisk are visible at *Greenwich*.

To illustrate the Use of the preceding Table by an Example :
 —Suppose on the 28th Day of September this Year, the Time of the Immersion of Jupiter's first Satellite be observed by a Telescope, in an unknown Meridian, to happen at 3 h. 35 min. 37 seconds; I find by the Table, that the Time of his Immersion will happen at the British Observatory at 1 h. 47 min. 17 sec. the same Day: The Difference of the Time is 1 h. 48 min. 20 sec. which being converted into Degrees and Minutes of the Equator, at the Rate of 15 Degrees per Hour, will make 27 deg. 5 min. the Longitude of the Place of Observation to the East; because the Time is more than that at the British Observatory.

Operation.	{	Immersion observed - - - - -	3 ^h 35 ^m 37 ^{''}
		Immersion at <i>Greenwich</i> - - - - -	1 47 17
		<hr/>	
		The Difference of Time - - - - -	1 48 20
		Answering to - - - - -	27° 5' 0
			Mercury's

C

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

EQUATION of TIME to the nearest Minute.

Day	Jan sub	Feb sub	Mar sub	Apr sub	May add	June add	July sub	Aug sub	Sept add	Oct add	Nov add	Dec add	Day
	min	m	m	m	m	m	m	m	m	m	m	m	
1	4	14	12	4	3	3	3	6	0	11	16	10	1
2	4	14	12	3	3	2	4	6	1	11	16	10	2
3	5	14	12	3	3	2	4	6	1	11	16	9	3
4	5	14	12	3	4	2	4	6	1	11	16	9	4
5	6	14	12	2	4	2	4	6	2	12	16	9	5
6	6	15	11	2	4	2	4	5	2	12	16	8	6
7	7	15	11	2	4	1	5	5	2	12	16	8	7
8	7	15	11	2	4	1	5	5	3	13	16	7	8
9	8	15	11	1	4	1	5	5	3	13	16	7	9
10	8	15	10	1	4	1	5	5	3	13	16	6	10
11	8	15	10	1	4	1	5	5	4	13	16	6	11
12	9	15	10	1	4	0	5	5	4	14	15	5	12
13	9	15	9	0	4	0	5	4	4	14	15	5	13
14	10	15	9	0	4	0	5	4	5	14	15	4	14
15	10	15	9	add	4	sub	6	4	5	14	15	4	15
16	10	14	9	0	4	0	6	4	6	15	15	4	16
17	11	14	8	1	4	1	6	4	6	15	15	3	17
18	11	14	8	1	4	1	6	3	6	15	14	3	18
19	11	14	8	1	4	1	6	3	7	15	14	2	19
20	11	14	7	1	4	1	6	3	7	15	14	2	20
21	12	14	7	2	4	1	6	3	7	15	14	1	21
22	12	14	7	2	4	2	6	2	8	16	13	1	22
23	12	14	6	2	4	2	6	2	8	16	13	0	23
24	13	14	6	2	4	2	6	2	8	16	13	sub	24
25	13	13	6	2	3	2	6	2	9	16	12	1	25
26	13	13	6	3	3	2	6	1	9	16	12	1	26
27	13	13	5	3	3	3	6	1	9	16	12	2	27
28	13	13	5	3	3	3	6	1	10	16	11	2	28
29	14		5	3	3	3	6	0	10	16	11	3	29
30	14		4	3	3	3	6	0	10	16	11	3	30
31	14		4	3	3	6	add			16		4	31

If the equal or clock time be given, add or subtract the tabular numbers to or from it, as directed in the table; the sum or difference will be the apparent or solar time. But do the contrary to reduce the apparent to equal time.

*A compendious CHRONOLOGY of MEMORABLE THINGS,
since the Creation to this present Year.*

A.P.J.	before <i>Christ.</i>		Years <i>since.</i>
710	4004	The Creation of the World	5803
1766	2948	Noah born	4747
2366	2348	Noah's Flood began	4147
2481	2233	The Babylonian Monarchy established	4032
2718	1996	Abraham born	3795
2986	1728	Joseph sold into Egypt	3527
3143	1571	Moses born	3370
3223	1491	The Israelites Departure out of Egypt	3290
3530	1184	Troy taken and destroyed by the Greeks	2983
3710	1004	Solomon's Temple built and dedicated	2802
4126	588	Jerusalem and the Temple destroyed	2387
4176	538	Daniel delivered from the Den of Lions	2337
4198	516	The Temple of Jerusalem rebuilt	2315
4391	323	The Death of Alexander the Great	2122
4710	4	The true Year of Christ's Birth	1803
4714	0	The vulgar Year of Christ's Birth.	1799
<hr/>			
A. D.			
33		The Passion and Resurrection of Jesus Christ	1766
70		Jerusalem and the Temple destroyed by Titus	1729
100		St. John, the last of the Apostles, dies Dec. 20.	1699
313		Christianity triumphs under Constantine	1486
476		Augustulus, the last Roman Emperor, deposed	1323
606		The wicked Phocas makes Pope Boniface Head of the Church	1193
608		Mahomet broaches his Imposture at Mecca	1191
872		Italy and Rome plundered by the Saracens	927
1012		Swaain King of Denmark conquers England	787
1066		William Duke of Normandy conquers England	733
1110		Arts and Sciences taught in Cambridge	689
1119		The first War between the French and English	680
1300		The Mariners Compass invented	499
1330		The Canaries discovered by an English Ship	469
1380		Gunpowder and the Use of Guns first found out	419
1453		Constantinople taken from the Christians	346

A.D.		Years since.
1463	The <i>Persians</i> conquered by <i>Tamerlane</i>	336
1500	<i>Rome</i> plundered by the Duke of <i>Bourbon</i>	299
1517	<i>Martin Luther</i> first disputed against <i>Popery</i>	282
1536	<i>England</i> separated from the Church of <i>Rome</i>	263
1588	The <i>Spanish Armada</i> defeated by the <i>English</i>	211
1603	<i>Q. Eliz.</i> dies <i>March 24</i> , and <i>K. James I.</i> began	196
1604	Died of the <i>Plague</i> in <i>London</i> , in 2 Years, 68, 596.	195
1605	<i>Gunpowder Treason</i> , <i>Nov. 5.</i>	194
1613	The <i>New-River Water</i> brought to <i>London</i>	186
1618	The excellent <i>Sir Walter Raleigh</i> beheaded	181
1625	<i>K. James I.</i> died, <i>K. Charles I.</i> began <i>Mar. 27.</i>	174
1625	35,417 Persons died of the <i>Plague</i> in <i>London</i>	174
1641	The cruel <i>Irish</i> Massacre began, <i>October 23.</i>	158
1643	<i>Burleigh House</i> stormed by <i>Cromwell</i> , <i>July 24.</i>	156
1649	<i>K. Charles I.</i> beheaded, <i>January 30.</i>	150
1658	<i>Oliver Cromwell</i> died.	141
1660	<i>K. Charles II.</i> restored, <i>May 29.</i>	139
1665	68,586 Persons died of the <i>Plague</i> in <i>London</i>	134
1666	<i>London</i> burnt, and a great <i>Sea-fight</i> with the <i>Dutch</i>	133
1672	War declared against the <i>Dutch</i> , <i>March 17.</i>	127
1674	A great <i>Snow</i> for 11 Days together	126
1675	The <i>Town</i> of <i>Northampton</i> burnt, <i>Sept. 3.</i>	124
1680	A great and splendid <i>Comet</i> appeared	119
1684	The great <i>Frost</i> that held 13 Weeks	115
1685	<i>K. Charles II.</i> died, <i>Feb. 6</i> , and <i>K. James II.</i> began	114
1685	The Duke of <i>Monmouth</i> beheaded, <i>July 15.</i>	114
1688	Seven <i>Bishops</i> sent to the <i>Tower</i> , <i>June 8.</i>	111
1688	<i>K. James II.</i> abdicated, <i>December 12.</i>	111
1689	<i>K. William</i> and <i>Q. Mary</i> crowned, <i>April 11.</i>	110
1692	The <i>French Fleet</i> entirely defeated by the <i>English</i>	107
1698	<i>Whitehall Palace</i> destroyed by <i>Fire</i>	101
1702	<i>K. William</i> died, <i>March 8</i> , and <i>Q. Anne</i> began	97
1702	<i>Q. Anne</i> proclaimed War against <i>France</i> , <i>May 4.</i>	97
1703	A great and terrible <i>Wind</i> , <i>Nov. 26</i> and <i>27.</i>	96
1704	<i>Gibraltar</i> taken by the <i>English</i>	95
1707	<i>England</i> and <i>Scotland</i> united, <i>May 1.</i>	92
1710	<i>Riots</i> and great <i>Disturbances</i> in <i>England</i>	89
1714	<i>Q. Anne</i> died, <i>August 1</i> , and <i>K. George I.</i> began	85

A.D.		Years since.
1715	A Rebellion in <i>Scotland</i> and <i>Lancashire</i> suppressed	84
1716	A great Frost in the Beginning of this Year	83
1718	The <i>Spanish</i> fleet destroyed by Admiral <i>Byng</i>	81
1719	A surprizing Meteor seen, <i>March</i> 19, at 8 at Night	80
1719	Mr. <i>Flamsteed</i> , a celebrated Astronomer, died <i>Dec.</i> 31	80
1727	The incomparable Sir <i>Isaac Newton</i> died <i>Mar.</i> 20	72
1727	<i>K. George I.</i> died <i>June</i> 11, and <i>K. George II.</i> began	72
1736	The Prince and Princess of <i>Wales</i> married, <i>Ap.</i> 27	63
1739	Letters of Marque published in <i>London</i> against the <i>Spaniards</i> , <i>July</i> 16.	60
1739	War declared by <i>Great Britain</i> against <i>Spain</i>	60
1739	<i>Porto-Bello</i> taken and destroyed by Adm. <i>Vernon</i>	60
1740	A very severe Frost from <i>Dec.</i> 25, to <i>Feb.</i> 27	59
1742	A Comet appeared from <i>Feb.</i> 18, to <i>March</i> 14	57
1743	A splendid Comet appeared from <i>Dec.</i> 23, to <i>Feb.</i> 18, in Ψ	56
1744	<i>Mar.</i> 4, <i>France</i> declar. War against <i>England</i> ; and <i>Mar.</i> 31, <i>England</i> declared War against <i>France</i>	55
1745	<i>Cape Breton</i> taken from the <i>French</i> , <i>June</i> 16	54
1746	The <i>Scotch</i> Rebels defeated by the Duke of <i>Cum-</i> <i>berland</i> , at <i>Culloden</i> , near <i>Inverness</i> , <i>April</i> 16	53
1748	A general Peace signed <i>October</i> 7	51
1749	<i>Cape Breton</i> restored to the <i>French</i>	50
1750	The <i>British</i> Fishery established	49
1751	The Prince of <i>Wales</i> died <i>March</i> 20	48
1752	The Date and Calendar altered	47
1755	<i>Lisbon</i> destroyed by an Earthquake, <i>Nov.</i> 1	44
1756	<i>England</i> declared War against <i>France</i> , <i>May</i> 18	43
1756	<i>Minorca</i> taken by the <i>French</i> , <i>June</i> 27.	43
1757	Count <i>Brown</i> defeated by the King of <i>Prussia</i> , near <i>Prague</i> , <i>May</i> 6.	42
1757	The King of <i>Prussia</i> defeated by Count <i>Daun</i> , at <i>Collin</i> , <i>June</i> 18	42
1758	<i>French</i> defeat. at <i>Creveld</i> , by Pr. <i>Ferdinand</i> , <i>June</i> 23	41
1758	Lord <i>Howe</i> slain, <i>July</i> 6, and Gen. <i>Abercrombie</i> repulsed at <i>Ticonderoga</i> , <i>July</i> 8	41
1758	<i>Cape Breton</i> taken by the <i>English</i> , <i>July</i> 26	41

A. D.

A.D.		Years since.
1758	The <i>Russians</i> defeated at <i>Zorndorff</i> by the King of <i>Prussia</i> , <i>Sept. 25</i>	41
1759	The Island of <i>Guadaloupe</i> taken by Gen. <i>Barrington</i> and Commodore <i>Moore</i> , <i>May 1</i>	40
1759	<i>French</i> defeated at <i>Minden</i> , by Pr. <i>Ferdinand</i> , <i>Aug. 1</i>	40
1759	The King of <i>Prussia</i> defeated at <i>Cunnersdorff</i> by the Count <i>de Soltikoff</i> , <i>August 12</i>	40
1759	Gen. <i>Wolfe</i> slain, though victorious, <i>Sept. 13</i> , and <i>Quebec</i> taken, <i>Sept. 18</i> . by Gen. <i>Townshend</i>	40
1760	<i>Montreal</i> taken by Gen. <i>Amberst</i> , <i>Sept. 8</i>	39
1760	K. <i>Geo. II.</i> died <i>Oct. 25</i> , and <i>Geo. III.</i> succeeded	39
1761	<i>Pondicherry</i> taken by Col. <i>Coot</i> , <i>Jan. 15</i>	38
1761	K. <i>Geo. III.</i> married Q. <i>Charlotte</i> , <i>Sept. 8</i>	38
1761	K. <i>Geo. III.</i> crowned, <i>Sept. 22</i>	38
1762	The Island of <i>Martinico</i> taken by Gen. <i>Monckton</i> , and Adm. <i>Rodney</i> , <i>Feb. 14</i>	37
1762	<i>George Prince of Wales</i> born, <i>August 12</i>	37
1762	The <i>Havannab</i> taken by Lord <i>Albemarle</i> and Sir <i>George Pocock</i> , <i>August 12</i>	37
1763	A general Peace in all <i>Europe</i>	36
1763	Pr. <i>Frederick</i> , Bishop of <i>Osnaburgh</i> , born <i>Aug. 16</i>	36
1765	Prince <i>William-Henry</i> born <i>August 21</i>	34
1766	Princess <i>Charlotte-Augusta Matilda</i> born <i>Sept. 29</i>	33
1767	Prince <i>Edward</i> born <i>Nov. 2</i>	32
1768	Princess <i>Augusta-Sophia</i> born <i>Nov. 8</i>	31
1770	Princess <i>Elizabeth</i> born <i>May 22</i>	29
1771	Prince <i>Ernest-Augustus</i> born <i>June 5</i>	28
1772	<i>Swedes</i> resign their Liberties to the King	27
1773	Prince <i>Augustus-Frederick</i> born <i>Jan. 27</i>	26
1773	The Light Gold recoined	26
1774	Prince <i>Adolphus-Frederick</i> born <i>Feb. 24</i>	25
1775	War commenced against the <i>North-Americans</i>	24
1776	Princess <i>Mary</i> born <i>April 25</i>	23
1776	The <i>Americans</i> declare themselves independent	23
1777	Princess <i>Sophia</i> born <i>Nov. 3</i>	22
1778	The <i>French</i> sign a Treaty with the <i>Americans</i>	21
1778	War begun against the <i>French</i>	21
1779	War commenced against the <i>Spaniards</i>	20
1780	War against the <i>Dutch</i> begun	19
1783	A general Peace	16
1783	Princess <i>Amelia</i> born <i>Aug. 7.</i>	16

A.D.		Years since.
1783	New Volcanic Island appeared near <i>Iceland</i>	16
1783	More than 40,000 People perish by Earthquakes in <i>Italy</i>	16
1783	Peace with <i>France, Spain, and America</i> , concluded <i>Sept. 3.</i>	16
1784	A general Peace concluded, <i>July 2.</i>	15
1784	Seventeen Districts in <i>Iceland</i> delolated, by a sub- terraneous Fire	15
1786	Commercial Treaty with <i>France</i> signed <i>Sept. 26.</i>	13
1788	His Majesty <i>George III.</i> seized with a dangerous Disorder	11
1789	<i>April 2.</i> , the King, Royal Family, &c. went in State to <i>St. Paul's</i> , being a Day of General Thanksgiving for His Majesty's Recovery	10
1789	Revolution in <i>France</i> , the <i>Bastie</i> demolished, and arbitrary Government destroyed	10
1790	<i>Joseph II.</i> Emperor of <i>Germany</i> died <i>Feb. 20.</i>	9
1790	<i>Henry Frederick</i> , Duke of <i>Cumberland</i> died <i>Sept.</i> <i>18.</i>	9
1792	<i>Leopold</i> , Emperor of <i>Germany</i> , died <i>March 1.</i>	7
1792	<i>Gustavus</i> , King of <i>Sweden</i> , shot by <i>Ankerstrom</i> , <i>March 16.</i>	7
	_____ , died <i>March 29.</i>	7
1792	War declared by <i>France</i> against the King of <i>Bo-</i> <i>hemia and Hungary, April</i>	7
1792	The <i>French</i> Monarchy altered to a Republic, <i>Sept.</i>	7
1793	The <i>French</i> King, <i>Louis XVI.</i> beheaded. <i>Jan. 21.</i>	6
1794	The <i>French</i> defeated by <i>Lord Howe</i> , <i>June 1.</i>	5
1796	Prince of <i>Wales</i> married, <i>April 8.</i>	4
1797	<i>Spanish</i> fleet defeated by <i>Earl St. Vincent</i> , <i>Feb.</i> <i>14.</i>	2
1797	Princess Royal married to the Duke of <i>Wirtem-</i> <i>berg, May 18.</i>	2
1797	<i>Dutch</i> fleet defeated by <i>Lord Duncan</i> .	2

AN
ACCOUNT OF THE ECLIPSES,
AND SOME OTHER
CELESTIAL APPEARANCES,
In the Year 1799.

IN this Year there happens only two Eclipses, and they both of the SUN.

The first of these Eclipses happens on *Sunday*, the 5th of *May*, at 14 minutes before our one o'clock in the morning; therefore must in consequence be invisible to us. This will be a very great Eclipse in the Great Pacific Ocean; for in 8 degrees of North Latitude, and 177 degrees 37 minutes of East Longitude from *London*, the *Sun* will be central and annular, precisely at noon day, when a beautiful and splendid Ring of Light will appear all round the Moon's dark body. The *Sun* will be partially eclipsed (more or less) at the Sandwich Islands, at the Society and Friendly Island, the New Hebrides, New Caledonia, and it will be seen as far as New Zealand, towards the South Pole. It will be visible in New Holland, New Guinea, the Ladron Islands, and as far North from thence as the Island of Japan.

The other Solar Eclipse happens on *Monday*, the 28th day of *October*, at 36 minutes past our 5 o'clock in the evening, invisible to us; for the *Sun* sets that day at *London*, at 54 minutes past 4 o'clock. This is also a very great Eclipse; for it will be both central and total, at noon-day, in the Great Pacific Ocean, or Great South Sea, near the western coasts of
Peru

Peru in South America, in 5 degrees 15 minutes South Latitude, and near 83 degrees of West Longitude from *London*. This Eclipse will be visible partially, more or less, to the whole continent of South America; it will be seen at the Island of Jamaica, at the Island of Cuba, and all the rest of the West India Islands; it will also be seen in Florida, Georgia, and Carolina, in the Southern parts of North America. It will also be seen to the westward, as far as Otaheite, one of the Society Islands, on the coast of Africa.

Other Celestial Appearances.

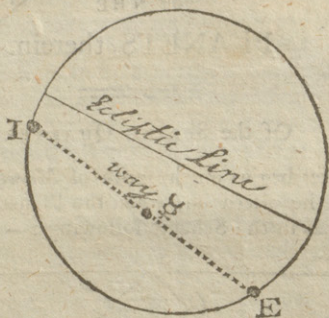
Upon *Wednesday* the 16th of *January*, there happens an Occultation of the Planet *Jupiter* by the *Moon*, and visible in these parts, if the air prove favourable. *Jupiter* will be seen to immerge behind the dark part of the *Moon*, at 49 minutes past 1 o'clock in the morning; and will again be seen to emerge from behind the bright part of the *Moon*, at 40 minutes past 2 o'clock, according to apparent time at *London*, after being hid 51 minutes. This Occultation of *Jupiter* by the *Moon* will appear very beautiful through a telescope; should it be a fine clear morning.

Upon *Tuesday*, the 7th of *May*, there happens a notable Transit of the Planet *Mercury* over the *Sun*; and it will be visible, from the beginning to the end, to us and all Europe, and that for the space of near 7 hours and a half. The Planet *Mercury*, divested entirely of its radiancy, will be seen on the *Sun*, in the form of a round black spot, and visible, if the sky be clear at the time, to all places of the earth where the *Sun* is up. *Mercury* will be seen on the *Sun* by sharp eyes, only defended by the interposition of a dark glass, or a piece of clear window glass smoked over the flame of a candle, but will appear much larger, and more to advantage, with the help of a telescope; but the precaution of interposing a dark glass between the eye and the telescope will be necessary, or otherwise the sight may be impaired, if not nearly destroyed; but,

thus

thus shielded, it will be perfectly secure from danger, or any inconvenience. This transit will be visible, from the Middle to the End, to all North and South America, and the West India Islands; the Beginning will be seen in Eastern Tartary, China, the Philippine Islands, the Islands of Borneo, Sunda, and Java, and on the Western coast of New Holland; but the *Sun* will set with them soon after.

The TYPE.



At *London*, according to apparent time, the Ingress at I, is *May* the 7th, at 1 minute after 9 o'clock in the morning; the Middle of the Transit will be at 43 minutes past 12 at noon; and the Egress at E, is at 25 minutes past 4 in the afternoon.

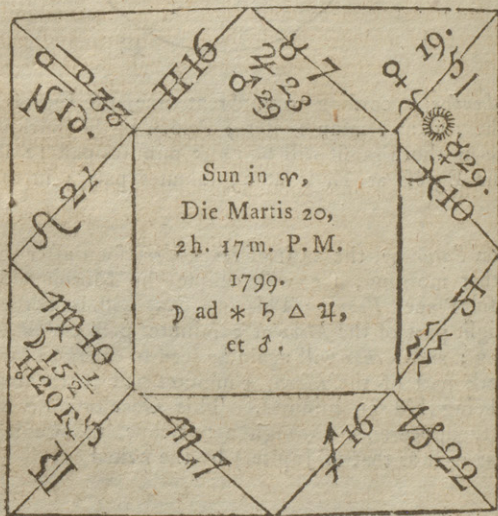
Upon *Saturday*, the 24th of *November*, soon after the *Moon* rises that morning, she will eclipse the Morning Star, the beautiful Planet *Venus*. This fine Star will immerse behind the bright part of the *Moon* at 5 minutes past 4 o'clock in the morning; and *Venus* will again be seen to emerge from behind the dark part of the *Moon*, 4 minutes past 5, apparent time, after being hid 59 minutes. This Occultation will make a pretty appearance through a telescope, though it may be seen (as well as that of *Jupiter*) by the naked eye.

Of the FOUR QUARTERS of the YEAR
1799;

WITH A SUMMARY
VIEW OF THE POSITION AND INFLUENCE
OF THE
PLANETS therein.

Of the SPRING QUARTER:

This Quarter begins on the 20th of *March*, at 17 min. past
2 o'clock in the afternoon, when the Planets are displayed in
the Heavens, as in the Scheme following:—



Here

Here is an appearance of treaties offered, ambassadors employed, and sent to and fro, on important business; I wish it may be for peace. The position of Υ and δ in the M. C. in the ascendant of *Ireland*, is a sanguine and very malignant aspect, and implies great calamities to mankind, as commotions, wars, and bloodshed. The great heroes of the age have now an opportunity to shew their valour. Many eminent and extraordinary events and alterations will shortly come to pass, and shew themselves upon the stage of *Europe*; some of the places whence the grand scene of affairs may be expected, are, *France, Germany, Italy, Spain and Portugal, with Holland, Great Britain and Ireland*—indeed most of the European Powers seem to be concerned, in one shape or other, in the superlative actions of these troublesome times. Some matters of great importance are now hammering upon the anvil of State; and the evil spirit of *France* is still at work, in contriving and carrying on some designs against our liberties, land and nation; a strange spirit of discord appears amongst mankind, both in *Europe and America*: whence wars, devastations, and all other calamities usually attending the same, will be the sad fate of many countries. The *German and Roman* empires greatly molested by divisions, schisms, and pernicious councils, &c. *Great-Britain*, I hope, will keep her ground, amidst this din of war and ruin; and should the *French*, with their armies, attempt to invade us, we predict they will suffer for their rashness, even to a total defeat. The Transit of the malevolent planet *Saturn* through *Cancer*, has already, and will still shed displeasing influences on the affairs of *Holland, Prussia, Genoa, Switzerland, Italy, and Spain*, and several parts of *Germany*, are in a very murmuring mood.

THE SUMMER QUARTER.

This Quarter begins the 21st of *June*, at 3 min. past 12 o'cl ck at noon, when the first degree of ϖ will be on the cusp of the 10th House, and the 1st degree of φ will be on the ascendant. The Δ ab δ ♀ et Δ Υ , & δ , & \odot . Also at this Ingress happens a remarkable \odot of η and δ in ϖ , in the Medium Cœli. This violent \odot of η and δ will have hasty and violent effects; and there will be very eminent and active
doings

doings this Quarter; and here is an appearance of abundance of treachery amongst mankind; there seems to be some great work at, or near at hand; the powers of judgment are yet not all poured out; here are potent Aspects and Positions in this Ingress, which will make warm work among the military gentlemen in several parts of *Europe*. It denotes some raging distempers, fevers, and unusual fires, and fiery appearances in the air. This Conjunction principally respects *Europe*, and shews most eminent actions to be carried on with great resolution and celerity. The *French* Republic appears formidable to some of their neighbours; and some considerable changes appear in the affairs of the *German* Princes. The *Russians* exert themselves with great valour and prudence. *Holland* and *Prussia* are under some uneasiness; and the city of *Constantinople* is somewhat concerned in the male influences of this important Conjunction,

THE AUTUMN QUARTER.

This Quarter begins the 23d of *September*, at 49 minutes past one in the morning, when 29 deg. of Ψ will be upon the Mid-heaven, and 16 deg. of Ω are ascending. The Υ is in 9 deg. of ♋ in the 11th House, separating from a ζ of ♈ , and Δ of ♁ , and next applying to the $*$ of ♁ and ♂ . I infer from this Ingress, that some overtures for peace may be made; but I doubt the felicity of *Europe* is not so near at hand; there seems to be some farther work to be done first; and the sufferings of this nation, I fear, are not yet quite over. This year will be productive of great accidents; various and sudden mutations in several parts of the world.—But let us be content; for our condition is better than our neighbours: however, we hope for better times. The Empire and the illustrious House of *Austria* will yet flourish, but not with that vigour it hath formerly done; great will be the afflictions and losses that stately family will undergo, but not such as shall bring it to its final period. The *French* have been, and are, assiduous in their applications to subject the United States of *America* to their measures; they stand in need of good advice; for if they give into *French* delusion, their circumstances will be most unhappy.

The WINTER QUARTER.

This Quarter begins the 21st of *December*, at 33 min. past 6 at night. The Positions and Aspects at this Ingress, are, most of them, of a malevolent nature, and shew that such nations and countries as are subject to their influence, are under very uneasy and melancholy circumstances. They will afflict several parts of *France*, with notable accidents, and unexpected commotions.

Cold winter now at last doth end the year;
 The earth and trees stript of their summer wear;
 Cold and dark air small comfort to us yield;
 Cold rain, frost, snow doth now adorn the field.

Farther Observations on COMETS.

AS to the destination or purpose of *Comets*, whether they were worlds formerly inhabited, and reduced to a chaos, or whether they are future worlds not yet reduced to a habitable state, or whether they are masses of combullible matter made to move periodically round the *Sun*, for the conveyance of heat and light to remote and dark regions, and after a number of revolutions (approaching every revolution nearer and nearer, as it is supposed some of them do) they at last drop into the *Sun*, to supply his exhausted fuel, and continual waste of his heat and light; or whether they are designed to impregnate the regions of the Planets with salutary particles, and make up the decay or waste of those elementary principles; or whether they are formed to bring about deluges or conflagrations, or to put a period to, or produce a change in other worlds, is not easy to determine. But the extreme vicissitudes the *Comets*' inhabitants undergo, of heat and cold, (and such those inhabitants may be adapted to endure) with the opportunity they have of seeing the works of creation in such variety of views and appearances (in travelling from the farthest to the nearest part of their orbits in respect of the *Sun*,) must be as astonishing as unspeakably magnificent! Some *Comets*, and particularly that of 1680, are computed to proceed in their
 greatest

greatest distances from the *Sun*, no less than four times the distance of the Planet *Saturn*; and *Saturn* is not less than 777 millions of miles from the *Sun*: yet 'tis found that *Comets*, at that amazing distance, in the ethereal space, are not affected by the attraction of the fixed Stars; but, arriving at their extreme limits, to which their projectile force will carry them, they regularly return, by the force of the *Sun's* attraction, acquiring new projectile force, by accelerating their velocities all the way back in their approach to the *Sun*, and then re-ard their motion in their retreat every where from him; and so on, periodically and perpetually—We may therefore observe, that there is a space of 6 or 7 thousand millions of miles over, at least, (and who can tell how much more?) wherein the *Planets* and *Comets* revolve round the *Sun*, as the centre of that space, independent of the attraction of the fixed Stars, reaching, in all probability, like our *Sun's* attraction, 3 or 4 thousand millions of miles round each Star; and we may reasonably suppose, that there are infinite Systems in the infinite Space, and a fixed Star placed in the midst of each System, as a *Sun*, to the respective revolving Bodies; and all these Systems kept in suspension, and at due distances from each other, by certain PROPERTIES. Hence we may suppose, that no two fixed Stars are nearer to each other than 6 thousand millions of miles, however they appear to us so crowded, and near one another, at their vast distance; for, though we are nearer some of them at one time of the year than another, by the whole breadth of the Earth's orbit, or about 160 millions of miles, their appearances, magnitudes, and distances from one another, are seen to be always the same—How wonderful!

At his command, affrighting human kind,
Comets drag on their blazing lengths behind:
Nor, as we think, do they at random rove,
But, in determin'd times, through long Ellipses move;
And, though sometimes they near approach the Sun,
Sometimes beyond our System's orbit run,
Throughout their race, they act their Maker's will,
His power declare, his purposes fulfil.

ἌΤΛΑΣ ΟΥΡΑΝΙΟΣ,
The COELESTIAL ATLAS;

OR, A NEW
EPHEMERIS

For the YEAR of our LORD 1799.

Being the Third after
BISSEXTILE, or LEAP-YEAR.

Wherein are contained
The Heliocentrick and Geocentrick Places of the Planets,
the ECLIPSES of the Luminaries, and other remarkable PHENO-
MENA that will happen this Year.

Carefully computed
From the genuine TABLES of Dr. EDMUND HALLEY,
those of Professor MAYER, and other the latest and most correct
ASTRONOMICAL TABLES.

A L S O

A Complete 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 Royal Observatory of
GREENWICH.

To which are added
Several useful TABLES: As, a TABLE of the Sun's
semi-diurnal Arcs, 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 Satellite;
a TABLE of the Sun's Right-Ascension; various exact Places of
the most remarkable fixed Stars, corrected from MAYER's
Catalogue; and, lastly, a correct TABLE of Latitudes and Longi-
tudes of the most remarkable Places in the World.

By ROBERT WILSON,

Teacher of the Mathematics,

Οἱ ἀγαθοὶ διηγήσαντες δέξαν Ἔσθ.

The FIFTIETH IMPRESSION.

L O N D O N;

Printed for the Company of STATIONERS; and sold by
GEORGE GREENHILL, at their Hall, near Ludgate-
street.

[Price EIGHTEEN PENCE stitched.]

Chronological Notes for the Year 1799.

Golden Number	- - - 14	Septuagesima Sund.	Jan. 20
Cycle of the Sun	- - - 16	Shrove Sunday	- Feb. 3
The Epact	- - - 23	Easter Day	- - Mar. 24
Dominical Letter	- F	Whit Sunday	- May 12
Number of Direction	- 3	Trinity Sunday	- May 19
Roman Indiction	- - 2	Advent Sunday	- Dec. 1

Astronomical CHARACTERS explained.

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

♄ Saturn	☉ Sol (the Sun)	☾ Luna (the Moon)	♃ Herschel,
♃ Jupiter	♀ Venus	♁ Moon's N. Node	the New or
♂ Mars	☿ Mercury	♁ her S. Node	Georgian Planet.

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

Of the Four Quarters of the Year 1799.

	d	h	m
THE Spring Quarter begins	- -	March 20	2 17 aftern.
The Summer Quarter begins	- -	June 21	0 3 aftern.
The Autumnal Quarter begins	- -	Sept. 23	1 49 morn.
The Winter Quarter begins	- -	Dec. 21	6 33 aftern.

THE beautiful Planet VENUS will be an Evening Star till Octob. the 16th; and after that Time she will be a Morning Star to the Year's End.

JUPITER will be an Evening Star till May the 30th; then a Morning Star till the 17th Day of December, at which Time he becomes an Evening Star, and so continues to the Year's End.

The NAMES of the Learned JUDGES of the LAW.

I. Right Hon. Alexander Wedderburne Lord Loughborough, Lord High Chancellor of Great Britain.

Right Honourable Sir Richard Pepper Arden, Knt. Master of the Rolls.

II. In the } Right Hon. Lord Kenyon, L. C. J. Sir W. H. Ashurst, Knt.
K. Bench. } Sir Soulden Lawence, Knt. Sir Nash Grose, Knt.

III. In the } Sir James Eyre, Knt. L. C. J. Sir Giles Rooke, Knt.
C. Pleas. } John Heath, Esq. Sir Francis Buller, Bart.

IV. In the } Sir Arch. Macdonald, Kt. L. C. B. Sir Beaumont Hotham, Kt.
Exchequer } Sir Richard Perryn, Knt. Sir Alex. Thompson, Knt.

Sir John Scott, Knt. Attor. General; Sir John Mitford, Knt. Solic. Gen.

A TABLE of TERMS and Returns for the Year 1799.

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	Wednesf.
In fifteen Days of St. Hilary, - - - 27	28	29	30	Wednesf.
On the Mor. of the Purif. of the Bl. V. M. Feb. 3	4	5	6	Wednesf.
In eight Days of the Purif. of the Bl. V. M. 9	10	11	12	Tuesday

Easter Term begins April 10, ends May 6.

	Exc.	Ret.	Ap.	W. D.
In fifteen Days of Easter - - - April 7	8	9	10	Wedn.
From Easter Day in three Weeks - - - 14	15	16	17	Wedn.
From Easter Day in one Month - - - 21	22	23	24	Wedn.
From Easter Day in five Weeks - - - 28	29	30	MI	Wedn.
On the Mor. of the Ascension of the Lord May 3	4	5	6	Monday

Trinity Term begins May 24, ends June 12.

	Exc.	Ret.	Ap.	W. D.
On the Morrow of the Holy Trinity, - May 20	21	22	24	Friday.
In eight Days of the Holy Trinity, - 26	27	28	29	Wedn.
In fifteen Days of the Holy Trinity, June 2	3	4	5	Wedn.
From the Day of the Holy Trin. in 3 Weeks 9	10	11	12	Wedn.

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

	Exc.	Ret.	Ap.	W. D.
On the Morrow of All Souls - - - Nov. 3	4	5	6	Wednesf.
On the Morrow of St. Martin - - - 12	13	14	15	Friday
In eight Days of St. Martin - - - 18	19	20	21	Thursd.
In fifteen Days of St. Martin - - - 25	26	27	28	Thursd.

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

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

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

BIRTH-DAYS of the ROYAL FAMILY.

KING GEORGE III. June 4, 1738	Prince Aug. Fred. Jan. 27, 1773
Prince of Wales, Aug. 12, 1762	Prince Adolph. Fred. Feb. 24, 1774
Duke of York, August 16, 1763	Princess Mary, April 25, - 1776
Duke of Clarence, Aug. 21, 1765	Princess Sophia, Nov. 3, - 1777
Prs. of Wirtemberg, Sept. 29, 1766	Princess Amelia, Aug. 7, - 1783
Prince Edward, Nov. 2, - 1767	Queen Charlotte, May 19, 1744
Prs. Augusta Sophia, Nov. 8, 1768	Duchess of Brunwic, Aug. 11, 1737
Prs. Elizabeth, May 22, - 1770	Duke of Gloucester, Nov. 25, 1743
Prince Ernest Augustus, June 5, 1771	

SOVEREIGNS of EUROPE, their Accession, &c.

Kingdoms, &c.	To whom subject.	When born.	Began to reign
England, &c.	George III.	June 4, 1738	Oct. 25, 1760
Russia	Paul I.	Oct. 1, 1754	Nov. 17, 1796
Spain	Charles IV.	Nov. 11, 1748	Dec. , 1788
Portugal	Mary	Dec. 7, 1734	Feb. 24, 1777
Prussia	Frederic Wm. III.	Aug. 6, 1770	Nov. 16, 1797
Denmark & Norway	Christian VII.	Jan. 29, 1749	Jan. 14, 1766
Sweden	Gustavus IV.	Nov. 1, 1778	Mar. 29, 1792
Germany	Francis II.	Feb. 12, 1767	Mar. 1, 1792
Poland	Stanislaus III.	Jan. 17, 1732	Nov. 25, 1764
Holland	William V.	March 8, 1748	Oct. 11, 1751
Papedom	Pius VI.	Dec. 27, 1717	Feb. 18, 1775
Sardinia	Victor	June 26, 1726	Mar. 20, 1773
Ottoman Empire	Selim III.	July 17, 1761	April 7, 1789

The FULL WEIGHT of the Coins, with the LEAST WEIGHT allowed to pass of the Gold Coin.

	Wt. allowed.	Full Wt.		Full Wt.
GOLD.	dwt. gr.	dwt. gr.	SILVER.	dwt. gr.
Guinea, - -	5 8	5 9 $\frac{3}{8}$ $\frac{0}{8}$	A Crown, - -	19 8 $\frac{1}{2}$ $\frac{1}{3}$
Half Guinea, -	2 16	2 16 $\frac{6}{8}$ $\frac{4}{8}$ $\frac{0}{8}$	Half Crown, - -	9 16 $\frac{5}{8}$ $\frac{1}{3}$
Quarter Guinea, 1	8	1 8 $\frac{3}{8}$ $\frac{2}{8}$ $\frac{0}{8}$	Shilling, - -	3 20 $\frac{2}{8}$ $\frac{1}{3}$
			Six Pence, - -	1 22 $\frac{1}{8}$ $\frac{1}{3}$

According to the above proportions it appears, that the value of a *lb.* of silver is 62 s. or 31. 2 s. and of a *lb.* of gold is 44 $\frac{1}{2}$ guineas, or 461. 14 s. 6 d. Also that the *oz.* of silver is 5 s. 2 d. and the *oz.* of gold 3 l. 17 s. 10 $\frac{1}{2}$ d. So that the value of the standard gold is 15 times that of the silver, and 1-14th more.

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.	Days	Rem. Deaths and Dethroned	Where buried
Will. Conq.	1027	1066 Oct. 14	20 10 26	60	Burst by Leap. Slain accidentally.	Caen, Norm
Will. Rufus	1057	1087 Sept. 9	12 10 24	43		Winchester
Henry I.	1068	1100 Aug. 2	35 3 29	77		Reading
Stephen	1105	1135 Dec. 1	18 10 24	49		Faversham
Henry II.	1133	1154 Oct. 25	34 8 11	55	Slain with an Arrow.	Fonteveraud
Richard I.	1156	1189 July 6	9 9 0	43		Fonteveraud
John	1165	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 18	43		Gloucester
Edward III.	1312	1327 Jan. 25	50 4 27	65	Westminster	
Richard II.	1366	1377 June 21	22 3 8	33	Dep. & murd.	Westminster
Henry IV.	1367	1399 Sept. 29	13 5 20	46	Dep. & murd.	Canterbury
Henry V.	1389	1413 Mar. 20	9 5 11	33		Westminster
Henry VI.	1421	1422 Aug. 31	38 6 4	49		Windfor
Edward IV.	1442	1461 Mar. 4	22 1 5	41	Murder'd. Slain in Battle.	Windfor
Edward V.	1471	1483 April 9	0 2 15	12		Not known
Richard III.	1443	1483 June 22	2 2 0	42		Leicester
Henry VII.	1456	1485 Aug. 22	23 8 0	52	Abdicated.	Westminster
Henry VIII.	1492	1509 April 22	37 9 6	55		Windfor
Edward VI.	1537	1547 Jan. 28	6 5 8	15		Westminster
Mary I.	1516	1553 July 6	5 4 11	42		Westminster
Elizabeth	1533	1558 Nov. 17	44 4 7	69		Westminster
James I.	1566	1603 Mar. 24	22 0 3	58		Westminster
Charles I.	1600	1625 Mar. 27	23 10 3	48		Windfor
Charles II.	1630	1649 Jan. 30	36 0 7	54		Westminster
James II.	1633	1685 Feb. 6	4 0 7	67	St. Germain	
Mary II.	1662	1689 Feb. 13	5 10 15	32	Westminster	
William III.	1650	1689 Feb. 13	13 0 23	52	Westminster	
Anne	1665	1702 Mar. 8	12 4 24	49	Westminster	
George I.	1660	1714 Aug. 1	12 10 10	67	Hanover	
George II.	1683	1727 June 11	33 4 14	77	Westminster	
George III.	1738	1760 Oct. 25	Crowned Sept. 22, 1761.			

Above you view the Rise and Fall of Kings,
Whose Fate sometimes a useful Lesson brings.
Well if all Men could profit from the past!
Each know his Duty, each excel the last,
And justly execute his slated Task.

A TABLE of the most Reverend, Right Reverend, and Reverend, the ARCH-BISHOPS, BISHOPS and DEANS, exercising Ecclesiastical Jurisdiction, 1700.

BISHOPS.	Seats.	Date.	Succeeded.	DEANS.
Dr. John Moore	<i>Bangor</i>	1775	Ewer deceased	
Arch-Bishop	<i>Canterb. A. B.</i>	1783	Cornwallis dec.	Dr. Powys
Dr. Will. Markham	<i>Chester</i>	1771	Keene translat.	
Arch-Bishop	<i>York A. B.</i>	1777	Drummond dec.	Dr. J. Fountayne
Dr. Beilby Porteus	<i>Chester</i>	1776	Markham tran.	
	<i>London</i>	1787	Lowth deceas.	Bishop Pretyman
	<i>Landaff</i>	1769	Shipley translat.	
Hon. Dr. S. Barrington	<i>Salisbury</i>	1782	Hume dec.	
	<i>Durham</i>	1791	Thurlow dec.	Bishop Cornwallis
	<i>Litch & Cov.</i>	1771	Everton translat.	
Hon. Dr. B. North	<i>Worcester</i>	1774	Johnson deceas.	
	<i>Winchester</i>	1781	Thomas deceas.	Dr. Newton Ogle
Dr. Charles Mofs	<i>St. David's</i>	1766	Lowth translat.	
	<i>Bath & Wells</i>	1774	Willes decease	Ld. Fr. Seymour
	<i>St. David's</i>	1774	Mofs translat.	
H. Dr. James Yorke	<i>Gloucester</i>	1779	Warburton dec.	
	<i>Ely</i>	1781	Keene deceased	Dr. Wm. Pearce
	<i>Litch. & Cov.</i>	1775	B. North tr.	
Dr. Richard Hurd	<i>Worcester</i>	1781	B. North tr.	Dr. Onslow
	<i>Oxford</i>	1777	Lowth translat.	
Dr. John Butler	<i>Hereford</i>	1788	Harley deceas.	Dr. N. Wetherell
	<i>St. David's</i>	1779	Yorke translat.	
Dr. John Warren	<i>Bangor</i>	1783	Moore translat.	Mr. Warren
Dr. J. Cornwallis	<i>Litch & Cov.</i>	1781	Hurd translat.	Dr. Bapt. Proby
	<i>Bristol</i>	1782	Newton dec.	
Dr. Lewis Bagot	<i>Norwich</i>	1783	Yonge dec.	
	<i>St. Asaph</i>	1790	Hall fax dec.	Mr. W. D. Shipley
Dr. Richard Watfon	<i>Landaff</i>	1782	Barrington tr.	Dr. R. Price, Pr.
	<i>St. David's</i>	1783	Warren translat.	
Dr. Edward Smalwel	<i>Oxford</i>	1788	Butler translat.	Dr. Cyril Jackson
Dr. G. Pretyman	<i>Lecoln</i>	1787	Thurlow tran.	Sir Ri. Kaye, Bt.
	<i>Carlisle</i>	1787	Law dec.	
Dr. John Douglas	<i>Salisbury</i>	1791	Barrington tra.	Dr. John Ekins
Dr. William Cleaver	<i>Chester</i>	1788	Porteus tran.	Dr. G. Cotton
	<i>St. David's</i>	1788	Smalwell tr.	
Dr. Samuel Horsley	<i>Rocheſter</i>	1793	Thomas dec.	Dr. T. Dampier
Dr. Richard Beadon	<i>Gloucester</i>	1789	Hallifax tran.	Dr. Josiah Tucker
Dr. E. V. Vernon	<i>Carlisle</i>	1791	Douglas translat.	Dr. Isaac Milner
Dr. Charles Sutton	<i>Norwich</i>	1792	Horne decea.	Dr. Joseph Turner
	<i>Bristol</i>	1792	Bagot translat.	
Dr. Spencer Madan	<i>Peterborough</i>	1794	Hinchliffe dec.	Dr. Tho. Kipling
	<i>Bristol</i>	1794	Horsley translat.	Dr. C. Harward
Dr. Regi. Cou tenay	<i>Exeter</i>	1797	Madan translat.	Dr. John Hallam
Dr. Cornwall	<i>Bristol</i>	1797	Buler dec.	Mr. Wollaston, P.
Hon. Dr. Wm. Stuart	<i>St. David's</i>	1793	Cou tenay tra.	
Dr. Buckner	<i>Chicheſter</i>	1797	Ashburnham d.	Mr. Combe Miller
	<i>Westminster</i>	1793	Thomas dec.	Bishop Horsley
	<i>Windsor</i>	1788	Douglas prom.	Bishop Sutton
Dr. Crigan	<i>Sodor and Man</i>			

In the course of this year there will happen only two eclipses, and those both of the sun, but neither of them visible in these parts.

I. *May 5*, the Sun is eclipsed, but invisible here. The conjunction is at $45\frac{1}{2}$ minutes before 1 in the morning, in longitude $1^{\circ} 14' 27''$, the moon's latitude being $7'$ south. The Sun will be centrally eclipsed on the meridian, at oh $9\frac{1}{2}$ m, in longitude $177^{\circ} 37\frac{1}{2}'$ east, and latitude 8° north.

II. *October 28*, the Sun is eclipsed, but invisible here. The conjunction is at 5h $35\frac{3}{4}$ m afternoon, in longitude $7^{\circ} 5^{\circ} 19'$, the moon's latitude being $7\frac{1}{2}'$ north. The Sun will be centrally eclipsed on the meridian, at 5h 31 m, in longitude $82^{\circ}\frac{3}{4}$ west, and latitude $5^{\circ}\frac{1}{4}$ south.

There will also happen this year, two remarkable occultations, or eclipses, of Jupiter and Venus by the moon, and a transit or passage of the planet Mercury over the face of the sun. The particulars of all which are as follow:

May 7, the planet Mercury will transit or pass over the sun's disk. The transit begins about half past 8 in the morning, and ends about 3 quarters past 3 afternoon; the planet passing over the lower part of the sun, ending at the very lowest point of the sun's disk, and beginning about 60° above the same on the left hand side, when looked at directly with the naked eye; but will appear to begin on the contrary side when looked at through a telescope which reverses.

June 16, Jupiter is occulted or eclipsed by the moon. Begins at 1h 49 m in the morning, and ends at 2h 41 m. The latitude of Jupiter being $5\frac{1}{4}'$ north of the moon's centre.

November 24, Venus is occulted by the moon. The beginning is at 4h $4\frac{1}{2}$ m, and end at 5h $3\frac{1}{2}$ m, in the morning. The latitude of Venus being, at beginning $1\frac{1}{3}'$ south, and at the end $4\frac{1}{3}'$ north of the moon's centre.

Obliquity of the Ecliptic.	1799.	Equation of Equinoctial Points.
$23^{\circ} 27' 58''.0$	- January 1,	- 14".3
$23 27 58. 4$	- April 1,	- 13. 3
$23 27 58. 9$	- July 1,	- 12. 2
$23 27 59. 3$	- October 1,	- 11. 1
$23 27 59. 6$	- Decemb. 31,	- 9. 9

8 January hath xxxi Days. White.

The LUNATIONS.

New Moon the 6th day, at 14 minutes past 4 morning.
 First quarter the 14th day, at 58 minutes past 3 morning.
 Full Moon the 21st day, at 41 minutes past 5 afternoon.
 Last quarter the 28th day, at 50 minutes past 10 morning.

M	Sundays & other D remark. days	☉ rises	☉ sets	☉'s declin.	☽'s declin.	☽ rises & sets	☽ south	Clock bef. ☉
1	Circumcision	8 5	3 55	23 s 0	14 s 33	2 m 40	7 m 44	4 8'
2		8 4	3 56	22 54	19 30	4 3	8 35	4 36
3		8 3	3 57	22 48	23 22	5 28	9 30	5 4
4		8 3	3 57	22 42	25 50	6 48	10 26	5 31
5	Old Chri. Day	8 2	3 58	22 35	26 46	7 55	11 23	5 58
6	E Epiphany	Tw. day	3 59	22 28	26 9	☽ sets	o a 20	6 25
7	Plough Monday	8 0	4 0	22 21	24 7	5 a 8	1 14	6 51
8	Lucian	7 59	4 1	22 13	20 54	6 20	2 4	7 16
9		7 58	4 2	22 4	16 49	7 35	2 50	7 41
10		7 57	4 3	21 55	12 7	8 46	3 33	8 6
11		7 56	4 4	21 46	7 3	9 56	4 14	8 30
12	Old New Yea.d.	7 55	4 5	21 36	1 45	11 5	4 53	8 53
13	E 1 S. aft. Epiph.	Ca. T. b.	4 6	21 26	3 n 34	morn	5 32	9 15
14	Ox. T. b. [Hila.	7 53	4 7	21 15	8 48	0 12	6 13	9 37
15		7 52	4 8	21 4	13 46	1 23	6 55	9 59
16		7 51	4 9	20 53	18 17	2 35	7 41	10 19
17	Old 12th Day	7 49	4 11	20 41	22 8	3 50	8 30	10 39
18	Q Char. b. d. k.	7 48	4 12	20 29	24 59	5 3	9 24	10 58
19	[Prisca	7 47	4 13	20 16	26 35	6 16	10 21	11 16
20	F Septuagesima S.	7 45	4 15	20 3	26 38	7 17	11 21	11 34
21	Agnes [Fabian	7 44	4 16	19 50	25 0	☽ rises	morn	11 50
22	Vincent	7 42	4 18	19 36	21 45	5 a 5	0 20	12 6
23	Hil. Term beg.	7 41	4 19	19 23	17 7	6 32	1 17	12 21
24		7 40	4 20	19 8	11 27	8 3	2 12	12 36
25	Conv. of St. Paul	7 38	4 22	18 53	5 11	9 28	3 3	12 49
26		7 37	4 23	18 38	1 8 20	10 53	3 53	13 2
27	F Sexage. Pr. Au.	7 35	4 25	18 23	7 41	morn	4 42	13 14
28	[Fred. b.	7 33	4 27	18 7	13 35	0 19	5 32	13 25
29		7 32	4 28	17 51	18 42	1 43	6 23	13 36
30	K. Cha. I. mar.	7 30	4 30	17 34	22 45	3 8	7 16	13 46
31		7 28	4 32	17 17	25 30	4 26	8 11	13 54

Day	Day increal.	Length of Day.	Helioc. long. ♀	Helioc. long. ♀	Helioc. long. ♂	Helioc. long. ⊖	Helioc. long. ♀	Helioc. long. ♂	☽ sets
1	0 7	7 51	22 26	17 25	8 48	22 8	12 11	12 57	20 8 6
7	0 17	8 1	22 30	26 20	25 28	17 18	21 46	27 11	43 8 58
13	0 29	8 13	22 43	26 52	28 43	23 25	12 15	3 25	151 8 25
19	0 43	8 27	22 57	27 24	1 55	0 0	10 44	4 56	7 42
25	1 1	8 45	23 10	27 56	5 6	5 38	20 14	0 35	7 9

1799.

January.

9

Days	Day lig. begins	Day lig. ends	Durat. twilig.	Pl. D's node	h's latitude	U's latitude	S's latitude	Q's latitude	Q's latitude
1	5 59	6 1	2 10	22 8 32	0 n 1	1 s 2	0 n 10	0 s 40	0 n 12
7	5 56	6 4	2 9	22 13	0 2	1 0	0 18	0 52	2 3
13	5 52	6 8	2 7	21 54	0 2	0 59	0 25	1 3	3 21
19	5 46	6 14	2 5	21 35	0 3	0 57	0 31	1 12	3 16
25	5 39	6 21	2 3	21 16	0 4	0 55	0 3	1 19	2 22
Days	☉'s longitude	☽'s long.	☽'s latitude	h's long.	U's long.	S's long.	Q's long.	Q's long.	
1	11 11	3 12	11 19	0 n 3	23 37	16 36	10 46	11 39	28 R 20
2	12 12	15 26	12	0 s 11	23 32	16 34	11 22	12 54	28 V 20
3	13 13	27 9	15 57	1 25	23 27	16 32	11 58	14 10	28 12
4	14 14	39 23	34	2 32	23 22	16 31	12 34	15 25	27 55
5	15 15	52 6	59	3 30	23 17	16 30	13 10	16 41	27 26
6	16 17	4 20	12	4 15	23 12	16 29	13 46	17 56	26 43
7	17 18	15 3	10	4 46	23 8	16 28	14 22	19 12	25 46
8	18 19	27 15	52	5 3	23 3	16 28	14 58	20 27	24 42
9	19 20	37 28	18	5 4	22 58	16 27	15 34	21 43	23 32
10	20 21	48 10	31	4 51	22 53	16 27	16 11	22 58	22 17
11	21 22	57 22	31	4 26	22 48	16 27	16 47	24 14	20 58
12	22 24	6 4	24	3 49	22 43	16 28	17 23	25 29	19 40
F	23 25	14 16	13	3 3	22 38	16 28	18 0	26 45	18 22
14	24 26	21 28	4	2 9	22 33	16 29	18 36	28 0	17 9
15	25 27	27 10	3	1 8	22 28	16 30	19 13	29 15	16 3
16	26 28	32 22	13	0 4	22 23	16 31	19 50	30 31	15 4
17	27 29	36 4	12	1 n 3	22 18	16 32	20 27	1 46	14 13
18	28 30	40 17	31	2 7	22 13	16 34	21 4	3 1	13 31
19	29 31	42 14	45	3 7	22 9	16 36	21 4	4 17	12 59
F	0 32	43 14	24	3 58	22 4	16 38	22 18	5 32	12 37
21	1 33	44 28	26	4 36	21 59	16 41	22 55	6 47	12 23
22	2 34	44 12	46	4 58	21 54	16 43	23 32	8 3	12 D 17
23	3 35	42 27	19	5 1	21 49	16 46	24 9	9 18	12 19
24	4 36	41 11	57	4 44	21 44	16 48	24 46	10 33	12 29
25	5 37	38 26	32	4 9	21 40	16 51	25 23	11 49	12 46
26	6 38	35 11	0	3 18	21 35	16 54	26 0	13 4	13 10
F	7 39	31 25	16	2 15	21 31	16 57	26 37	14 19	13 40
28	8 40	26 9	18	1 5	21 26	17 1	27 15	15 35	14 15
29	9 41	21 23	7	0 s 8	21 22	17 5	27 52	16 50	14 55
30	10 42	15 6	42	1 19	21 17	17 9	28 30	18 5	15 39
31	11 43	8 20	5	2 24	21 13	17 13	29 7	19 21	16 26
Days	☽ fets	☽ fets	☽ fets	☽ fets	h's declin.	U's declin.	S's declin.	Q's declin.	Q's declin.
1	3 m 40	0 m 16	3 a 53	5 a 26	21 n 25	15 n 50	4 n 26	13 s 37	20 s 20
7	3 14	0 10	4 6	4 56	21 31	15 49	5 57	22 57	18 59
13	2 48	0 5	4 20	rises	21 36	15 51	7 27	21 52	18 53
19	2 23	0 1	4 35	6 m 31	21 42	15 55	8 56	20 23	19 35
25	1 58	11 a 58	4 51	6 11	21 47	16 0	10 24	18 32	20 30

The LUNATIONS.

New Moon the 4th day, at 14 minutes past 8 night.
 First quarter the 13th day, at 16 minutes bef. 1 morning.
 Full Moon the 20th day, at 3 minutes past 5 morning.
 Last quarter the 26th day, at 22 minutes past 8 night.

M	Sundays & other	☉	☽	☉'s	☽'s	☉'s	☽'s	Clock	
D	remark. days	rises	sets	declin.	declin.	& sets	fourth	bef. ☉	
1		7 27	4 33	17 s 0	26 s 47	5 m 37	9 m 7	14 2'	
2	Purif. or Candl.	7 25	4 35	16 43	26 33	6 36	10 3	14 10	
3	Quinq. Shro. S.	7 23	4 37	15 25	24 53	7 26	10 58	14 16	
4	[Blas]	7 22	4 38	16 8	22 0	☽ sets	11 49	14 22	
5	Shrove Tuesday Agatha	4 40	15 49	18 8	5 a 12	0 a 37	14 26		
6	Ash Wednesday	7 18	4 42	15 31	13 34	6 24	1 22	14 30	
7		7 16	4 44	15 12	8 32	7 36	2 4	14 34	
8		7 14	4 46	14 53	3 15	8 46	2 44	14 36	
9		7 13	4 47	14 34	2 n 7	9 53	3 23	14 37	
10	F 1 Sun. in Lent	7 11	4 49	14 14	7 23	11 3	4 3	14 38	
11	[I. civ. m.]	7 9	4 51	13 55	12 26	morn	4 44	14 38	
12	Term ends. Ca.	7 7	4 53	13 35	17 3	0 13	5 28	14 37	
13	Ember Week	7 5	4 55	13 15	21 5	1 26	6 15	14 35	
14	Valen. [OldCa.]	7 5	4 57	12 54	24 16	2 40	7 6	14 33	
15		7 3	4 59	12 34	26 10	3 51	8 1	14 30	
16		7 0	5 0	12 13	26 58	4 58	8 59	14 26	
17	F 2 Sund. in Len.	6 58	5 2	11 52	26 2	5 53	9 59	14 21	
18		6 56	5 4	11 31	23 25	6 36	10 59	14 16	
19		6 54	5 6	11 9	19 14	7 6	11 56	14 10	
20		6 52	5 8	10 48	13 47	☽ rises	morn	14 3	
21		6 50	5 10	10 26	7 29	7 a 1	0 50	13 56	
22		6 48	5 12	10 4	0 44	8 31	1 43	13 48	
23		6 46	5 14	9 42	5 s 58	9 59	2 34	13 39	
24	F 3 Sun L. St. Mat.	6 44	5 16	9 20	12 16	11 29	3 25	13 30	
25	[In. Pr. A. F. b.]	6 42	5 18	8 58	17 46	morn	4 18	13 20	
26		6 40	5 20	8 36	22 11	0 56	5 12	13 10	
27		6 38	5 22	8 13	25 15	2 19	6 7	12 59	
28		6 36	5 24	7 50	26 51	3 34	7 4	12 48	
29									
30									
☉	Day	Length	Helioc.	Helioc.	Helioc.	Helioc.	Helioc.	Helioc.	h
☽	in. ras.	of day	long. ♀	long. ♀	long. ♂	long. ☉	long. ♀	long. ♂	sets
1	1 23	9 7	23 26	28 33	8 11 45	12 2 44	1 18	25 22	6 m 35
7	1 45	9 29	23 39	29 5	11 5	18 49	10 49	13 11 53	6 1
13	2 7	9 5	23 53	29 37	14 5	24 53	20 20	0 4 57	5 4
19	2 29	10 13	24 6	0 11 6	17 58	0 12 56	29 52	17 28	5 2
25	2 52	10 36	24 19	0 41	20 59	6 57	9 25	4 11 11	5

1799.

February.

II

Day	Day lig. begins	Day lig. ends	Durat. twilig.	Pl. D's node	H's latitude	M's latitude	S's latitude	Q's latitude	Z's latitude
Days	☉'s longitude		D's long.	D's latitude	H's long.	M's long.	S's long.	Q's long.	Z's long.
1	5 31	6 30	2 0	20 8 54	0 n 4	0 s 53	0 n 42	1 s 25	1 n 7
7	5 22	6 39	1 59	20 35	0 5	0 52	0 47	1 28	0 7
13	5 12	6 48	1 57	20 16	0 6	0 50	0 51	1 28	0 s 45
19	5 0	7 0	1 57	19 57	0 6	0 49	0 53	1 26	1 25
25	4 50	7 10	1 55	19 38	0 7	0 47	0 57	1 21	1 54
1	12 44	0	3 5 18	3 s 21	21 25 8	17 8 17	26 4 45	20 33 6	17 13 17
2	13 44	51	16 19	4 6	21 4	17 21	0 8 22	21 54 12	12 10
F	14 45	41	29 10	4 38	20 59	17 26	1 0	23 8	19 18
4	15 46	30	11 50	4 56	20 55	17 31	1 37	24 21	20 12
5	16 47	18	24 18	4 59	20 51	17 36	2 1	25 36	21 17
6	17 48	5	6 35	4 48	20 47	17 41	2 52	26 51	22 23
7	18 48	50	18 41	4 24	20 43	17 46	3 30	28 7	23 29
8	19 49	33	0 38	3 49	20 39	17 52	4 7	29 22	24 37
9	20 50	15	12 29	3 32	20 35	17 58	4 45	30 37	25 49
F	21 50	55	24 16	2 11	20 31	18 4	5 23	31 53	27 15
11	22 51	33	6 8	1 12	20 27	18 10	6 0	3 8	28 21
12	23 52	9	18 0	0 10	20 23	18 16	6 38	4 23	19 38
13	24 52	44	0 11 8	0 n 54	20 19	18 22	7 10	5 38	0 56
14	25 53	16	12 33	1 57	20 15	18 28	7 54	6 51	2 16
15	26 53	47	25 20	2 56	20 12	18 35	8 32	8 8	3 37
16	27 54	16	8 35	3 48	20 9	18 42	9 1	9 23	5 0
F	28 54	43	22 18	4 28	20 6	18 49	9 48	10 38	6 23
18	29 55	8	6 23	4 54	20 3	18 56	10 26	11 53	7 48
19	30 55	32	21 5	5 1	20 0	19 3	11 4	13 7	9 14
20	1 55	54	5 12 58	4 48	19 57	19 10	11 41	14 21	10 41
21	2 56	14	21 0	4 15	19 54	19 15	12 19	15 31	12 9
22	3 56	32	6 21	3 25	19 51	19 26	12 57	16 52	13 39
23	4 56	49	20 52	2 21	19 48	19 34	13 35	18 7	15 10
F	5 57	5	5 12 26	1 9	19 45	19 42	14 13	19 22	16 42
25	6 57	10	19 40	0 s 6	19 43	19 50	14 51	20 36	18 14
26	7 57	31	3 33	1 10	19 40	19 58	15 29	21 51	19 47
27	8 57	42	17 6	2 26	19 37	20 7	16 7	23 6	21 21
28	9 57	52	0 20	3 23	19 35	20 15	16 45	24 21	22 57
Day	M's rise	S's rise	Q's rise	Z's rise	H's declin.	M's declin.	S's declin.	Q's declin.	Z's declin.
1	1 m 32	11 s 55	5 2 12	6 m 8	21 n 53	16 n 9	12 n 3	15 s 59	21 s 14
7	1 8	11 3	5 30	6 10	21 57	16 19	13 26	13 31	21 19
13	0 45	11 2	5 49	6 15	22 1	16 31	14 45	10 49	20 42
19	0 23	11 1	6 0	6 19	22 5	16 44	16 0	7 58	19 20
25	0 3	11 50	6 31	6 20	22 8	16 58	17 14	4 58	17 11

The LUNATIONS.

New Moon the 6th day, at 34 minutes past 1 afternoon.
 First quarter the 14th day, at 22 minutes past 6 afternoon.
 Full Moon the 21st day, at 53 minutes past 2 afternoon.
 Last quarter the 28th day, at 34 minutes past 7 morning.

M	Sundays & other	☉	☉	☉'s	☉'s	☾rises	☾	Clock	
D	remark. days	rises	sets	declin.	declin.	& sets	South	bef. ☉	
1	David	6 34	5 26	7 s 28	26 s 55	4 m 36	8 m 1	12 36	
2	Chad	6 32	5 28	7 5	25 33	5 24	8 56	12 23	
	F 4 or Midl. Sund.	6 30	5 30	6 42	22 56	5 56	9 48	12 11	
4		6 29	5 31	6 19	19 18	6 21	10 36	11 57	
5		6 27	5 33	5 56	14 53	6 40	11 22	11 44	
6		6 25	5 35	5 32	9 57	☾sets	o a 4	11 29	
7	Perpetua	6 23	5 37	5 9	4 41	6 a 36	o 45	11 15	
8		6 21	5 39	4 46	o n 43	7 46	1 25	11 0	
9		6 19	5 41	4 22	6 4	8 54	2 4	10 44	
	F 5 Sund. in Lent	6 17	5 43	3 59	11 13	10 5	2 45	10 29	
11		6 15	5 45	3 35	15 59	11 18	3 28	10 13	
12	Gregory	6 13	5 47	3 12	20 11	morn	4 13	9 56	
13		6 11	5 49	2 48	23 36	o 30	5 2	9 40	
14		6 9	5 51	2 24	26 0	1 42	5 55	9 23	
15	Cam. Ter. ends	6 7	5 53	2 1	27 9	2 51	6 50	9 5	
16	Oxf. Ter. ends	6 5	5 55	1 37	26 49	3 48	7 48	8 48	
	F 6 or Palm Sun.	Patrick	5 57	1 13	24 54	4 34	8 47	8 30	
18	Edwa. K. W. S.	6 1	5 59	0 50	21 25	5 10	9 44	8 12	
19		5 59	6 1	0 26	16 31	5 35	10 39	7 54	
20		5 57	6 3	0 2	10 31	5 56	11 33	7 36	
21	Bene. Maun. T.	5 55	6 5	o n 21	3 48	☾rises	morn	7 17	
22	Good Friday	5 53	6 7	0 45	3 s 10	7 a 33	o 26	6 59	
23		5 51	6 9	1 9	9 56	9 6	1 19	6 40	
	Easter Day	5 49	6 11	1 32	16 2	10 39	2 13	6 22	
25	Lady D. East. M.	5 47	6 13	1 56	21 4	morn	3 8	6 3	
26	Easter Tuesday	5 45	6 15	2 19	24 43	o 8	4 5	5 44	
27		5 43	6 17	2 43	26 47	1 30	5 4	5 25	
28		5 41	6 19	3 6	27 15	2 38	6 2	5 7	
29		5 39	6 21	3 30	26 12	3 31	6 59	4 48	
30		5 37	6 23	3 53	23 50	4 9	7 53	4 30	
	F Low Sunday	5 35	6 25	4 16	20 23	4 35	8 42	4 11	
	Day	Length	Helioc.	Helioc.	Helioc.	Helioc.	Helioc.	H	
	increat.	of day	long. ♀	long. ♀	long. ♂	long. ☉	long. ♀	sets	
1	3	7 10	51 24 26 26	11 3	22 11 59	10 11 54	15 11 47	15 11 18	4 m 46
7	3	31 11	15 24 42	1 35	25 57	16 58	25 22	4 36	4 24
13	3	55 11	39 24 55	2 6	28 53	22 57	4 8 57	25 57	4 1
19	4	19 12	3 25 8	2 38	1 56 48	28 55	14 33 21	6	3 39
25	4	43 12	27 25 22	1 10	4 41	4 55 1	24 10 21	11 13	3 16

Days	Day lig. begins	Day lig. ends	Durat. twilig.	Pl. D's mode	H's latitude	U's latitude	♁'s latitude	♀'s latitude	♃'s latitude
1	4 43	7 17	1 55	19 8 25	0 n 7	0 s 46	0 n 59	1 s 17	2 s 5
7	4 30	7 30	1 56	19 6	0 8	0 45	1 2	1 9	2 11
13	4 17	7 43	1 57	18 47	0 8	0 44	1 4	0 59	2 1
19	4 5	7 56	1 58	18 28	0 9	0 43	1 6	0 47	1 31
25	3 50	8 10	2 0	18 9	0 9	0 42	1 8	0 33	0 44

Days	☉'s long.	♃'s long.	♁'s latitude	♂'s long.	♂'s long.	♁'s long.	♀'s long.	♃'s long.
1	♂ 10 58 0	13 17	4 s 8	19 33	20 8 24	17 8 23	25 35	24 35
2	11 58 6	26 2	4 40	19 31	20 33	18 0	26 50	26 12
F	12 58 11	8 34	4 59	19 29	20 42	18 38	28 4	27 50
4	13 58 14	20 57	5 2	19 27	20 52	19 16	29 19	29 30
5	14 58 15	3 10	4 52	19 25	21 1	19 54	0 33	1 12
6	15 58 15	15 15	4 29	19 23	21 10	20 32	1 48	2 55
7	16 58 13	27 13	3 54	19 22	21 20	21 10	3 2	4 39
8	17 58 8	9 5	3 9	19 20	21 29	21 48	4 17	6 24
9	18 58 2	20 53	2 16	19 19	21 39	22 26	5 31	8 10
F	19 57 53	2 40	1 17	19 18	21 45	23 5	6 45	9 56
11	20 57 43	14 20	0 14	19 17	21 59	23 43	8 0	11 43
12	21 57 30	26 25	0 n 50	19 16	22 9	24 21	9 14	13 32
13	22 57 14	8 31	1 53	19 16	22 19	25 0	10 28	15 23
14	23 56 57	20 53	2 52	19 15	22 29	25 38	11 43	17 15
15	24 56 36	3 35	3 44	19 15	22 40	26 16	12 57	19 8
16	25 56 14	16 44	4 26	19 14	22 50	26 54	14 12	21 1
F	26 55 49	0 21	4 55	19 14	23 1	27 32	15 26	22 56
18	27 55 22	14 28	5 8	19 13	23 11	28 10	16 40	24 53
19	28 54 52	29 2	5 1	19 13	23 22	28 48	17 54	26 51
20	29 54 21	13 59	4 34	19 13	23 33	29 26	19 8	28 50
21	♁ 0 53 47	29 11	3 47	19 12	23 44	0 11 40	20 22	0 49
22	1 53 11	14 26	2 44	19 12	23 55	0 42	21 36	2 49
23	2 52 34	29 35	1 30	19 13	24 6	1 20	22 50	4 50
F	3 51 34	14 28	0 10	19 13	24 17	1 58	24 4	6 51
25	4 51 13	28 59	1 s 8	19 14	24 29	2 36	25 18	8 53
26	5 50 30	13 6	2 20	19 14	24 40	3 14	26 32	10 56
27	6 49 45	26 47	3 22	19 15	24 52	3 52	27 46	12 59
28	7 48 58	10 3	4 11	19 16	25 3	4 30	29 0	15 2
29	8 48 10	22 39	4 46	19 17	25 15	5 8	0 13	17 5
30	9 47 20	5 36	5 6	19 18	25 27	5 46	1 27	19 6
F	10 46 28	17 50	5 11	19 19	25 39	6 24	2 41	21 6

Days	♂ sets	♁ sets	♃ sets	♂ rises	H's declin.	U's declin.	♁'s declin.	♀'s declin.	♃'s declin.
1	11 a 57	11 a 48	6 a 45	6 m 20	22 n 9	17 n 7	17 n 59	2 s 56	15 s 20
7	11 41	11 4	7 6	6 28	22 11	17 23	19 4	0 n 0	11 51
13	11 25	11 48	7 27	6 14	22 13	17 40	20 5	3 15	7 37
19	11 9	11 48	7 48	6 9	22 14	17 57	21 0	6 18	2 40
25	10 53	11 48	8 8	sets	22 14	18 14	21 49	9 17	2 51

The LUNATIONS.

New Moon the 5th day, at 21 minutes past 7 morning.
 First quarter the 13th day, at 47 minutes past 7 morning.
 Full Moon the 19th day, at 40 minutes past 11 night.
 Last quarter the 26th day, at 30 minutes past 8 night.

M D	Sundays & other remark days	☉ rises	☉ sets	☉'s declin.	☽'s declin.	☽ rises & sets	☽ South	Clock bef. ☉	
1		5 33	6 27	4 n 39	16 s 8	4 m 56	9 m 29	3 53	
2	[Richard	5 31	6 29	5 2	11 18	5 11	10 11	3 35	
3	Ox. & Ca. T. beg.	5 29	6 31	5 25	6 5	5 23	10 52	3 17	
4	Ambrose	5 27	6 33	5 48	0 42	5 35	11 32	2 59	
5	Old Lady day	5 25	6 35	6 11	4 n 43	(sets)	0 a 12	2 41	
6		5 23	6 37	6 34	9 58	8 a 0	0 52	2 24	
7	F 2 Su. aft. Easter	5 21	6 39	6 56	14 54	9 12	1 34	2 6	
8		5 19	6 41	7 19	19 17	10 28	2 19	1 49	
9		5 17	6 43	7 41	22 57	11 42	3 6	1 32	
10	Term begins	5 16	6 44	8 3	25 38	morn	3 57	1 16	
11		5 14	6 46	8 25	27 8	0 50	4 51	0 59	
12		5 12	6 48	8 47	27 15	1 51	5 46	0 43	
13		5 10	6 50	9 9	25 53	2 40	6 43	0 28	
14	F 3 S. af. Easter	5 8	6 52	9 31	23 1	3 18	7 38	0 12	
15		5 6	6 54	9 52	18 45	3 44	8 33	0 a. 3	
16		5 4	6 56	10 13	13 19	4 7	9 26	0 18	
17		5 2	6 58	10 35	6 59	4 26	10 18	0 33	
18		5 0	7 0	10 55	0 7	4 41	11 10	0 47	
19	Alphege	4 58	7 2	11 16	6 s 49	(rises)	morn	1 0	
20		4 57	7 3	11 37	13 23	8 a 10	0 3	1 14	
21	F 4 Sun. af. East.	4 55	7 5	11 57	19 5	9 46	0 59	1 27	
22		4 53	7 7	12 17	23 30	11 14	1 57	1 39	
23	St. George	4 51	7 9	12 37	26 19	morn	2 57	1 51	
24	[Ma. h.	4 49	7 11	12 57	27 24	0 32	3 57	2 2	
25	St. Mark. Pres.	4 47	7 13	13 17	26 48	1 34	4 57	2 13	
26		4 45	7 15	13 36	24 44	2 17	5 53	2 24	
27		4 44	7 16	13 55	21 30	2 47	6 45	2 34	
28	F 5 or Roga. Sun.	4 42	7 18	14 14	17 23	3 9	7 32	2 43	
29		4 40	7 20	14 33	12 39	3 25	8 17	2 52	
30		4 38	7 22	14 51	7 30	3 39	8 58	3 1	
Day	Day	Length of day	Helioc. long. ♀	Helioc. long. ♀	Helioc. long. ♂	Helioc. long. ☉	Helioc. long. ♀	Helioc. long. ♀	H sets
1	5 11	12 55	25 37	3 11	47 8	11 46	5 11	2 14	2 m 52
7	5 35	13 19	25 51	4 19	10 51	17 40	5 10	2 0	2 30
13	5 57	13 41	26 4	4 51	13 40	23 32	4 46	1 49	2 9
19	6 21	14 5	26 17	5 23	16 28	19 24	4 28	1 42	1 48
25	6 43	14 27	26 31	5 54	19 15	11 14	4 11	1 4	1 27

Day	Day lig. begins	Day lig. ends	Durat. twilig.	Pl. D's node	h's latitude	☿'s latitude	♃'s latitude	♄'s latitude	♅'s latitude	♁'s latitude
1	3 33	8 27	2 3	17 8 46	0 n 10	0 s 40	1 n 10	0 s 16	0 n 31	
7	3 17	8 43	2 8	17 27	0 10	0 39	1 11	0 0	1 38	
13	3 2	8 58	2 11	17 8	0 11	0 39	1 12	0 n 17	2 31	
19	2 47	9 13	2 15	16 49	0 11	0 38	1 13	0 34	2 53	
25	2 26	9 34	2 25	16 30	0 12	0 37	1 14	0 50	2 34	
Days	☉'s longitude	☽'s long.	☽'s latitude	h's long.	☿'s long.	♃'s long.	♄'s long.	♅'s long.	♁'s long.	
1	9 11 45 35	0 8 10	5 s 2	19 20 20	25 8 51	7 11 2	3 8 54	23 9 5		
2	12 44 40	12 12	4 40	19 21 26	3 7 40	5 8 25	8 25 8			
3	13 43 43	24 8	4 6	19 23 26	15 8 18	6 21 26	58			
4	14 42 44	5 9 59	3 21	19 24 26	27 8 56	7 35 28	51			
5	15 41 43	17 48	2 27	19 26 26	39 9 34	8 48 0	8 41			
6	16 40 40	29 36	1 28	19 27 26	51 10 12	10 2 2	2 27			
F	17 39 35	11 8 25	0 24	19 29 27	4 0 50	11 15 4	10			
8	18 38 28	23 19	0 n 41	19 31 27	16 11 28	12 28 5	49			
9	19 37 18	5 11 19	1 45	19 33 27	29 12 6	13 42 7	24			
10	20 36 6	17 30	2 46	19 35 27	41 12 44	14 55 8	55			
11	21 34 52	29 54	3 40	19 38 27	54 13 22	16 9 10	21			
12	22 33 36	12 20 37	4 24	19 40 28	7 14 0	17 22 11	42			
13	23 32 17	25 41	4 56	19 43 28	20 14 38	18 35 12	58			
14	24 30 56	9 11 11	5 13	19 45 28	32 15 10	19 48 14	9			
15	25 29 33	23 6	5 13	19 48 28	45 15 54	21 15 14				
16	26 28 8	7 11 29	4 53	19 51 28	58 16 32	22 14 16	14			
17	27 26 40	22 14	4 14	19 54 29	11 17 10	23 27 17	9			
18	28 25 10	7 17 17	3 17	19 57 29	24 17 48	24 40 17	58			
19	29 23 38	22 29	2 52	0 29 37	18 25 25	55 18 41				
20	8 0 22	7 11 40	0 44	20 3 29	50 19 3	27 6 19	18			
21	1 20 29	22 41	0 s 39	20 6 0	11 3 19	41 28 19	50			
22	2 18 52	7 12 24	1 57	20 9 0	16 20 19	29 31 20	16			
23	3 17 13	21 43	3 7	20 13 0	29 20 57	0 11 44	20			36
24	4 15 33	5 13 35	4 3	20 16 0	42 21 35	1 57 20	50			
25	5 13 51	19 1	4 44	20 20 0	56 22 13	3 0 20	59			
26	6 12 7	2 11 2	5 8	20 24 1	9 22 51	4 22 11	R 2			
27	7 10 23	14 41	5 17	20 28 1	23 13 29	5 34 21	0			
F	8 8 37	27 2	5 11	20 32 1	36 24 7	6 47 20	52			
29	9 6 49	9 8 9	4 51	20 36 1	50 24 45	7 59 20	40			
30	10 5 0	21 6	4 19	20 40 2	3 25 23	9 12 20	23			
Days	☿'s declin.	♃'s declin.	♄'s declin.	♅'s declin.	♁'s declin.					
1	10 a 35	11 a 42	8 a 33	7 a 32	22 n 14	18 n 35	22 n 40	12 n 35	9 n 28	
7	10 20	11 47	8 54	8 20	22 13	18 53	23 16	15 14	14 28	
13	10 5	11 45	9 15	8 54	22 12	19 11	23 47	17 39	18 9	
19	9 50	11 42	9 36	9 6	22 10	19 20	24 11	19 4	20 10	
25	0 36	11 38	9 56	8 56	22 7	10 40	24 28	21 18	20 30	

The LUNATIONS.

New Moon the 4th day, at 14 minutes past 12 night.
 First quarter the 12th day, at 9 minutes past 5 afternoon.
 Full Moon the 19th day, at 51 minutes past 7 morning.
 Last quarter the 26th day, at 5 minutes past 11 morning.

M	Sundays & other D remark. days	☉ rises	☉ sets	☉'s declin.	☽'s declin.	☽ rises & sets	☽ South	Clock aft. ☉			
1	St. Phil. & Jam.	4 37	7 23	15 n 10	2 s 8	3 m 51	9 m 38	3' 8"			
2	Afcen. Holy Th.	4 35	7 25	15 28	3 n 18	4 1	10 17	3 16			
3	Inven. of Crofs	4 33	7 27	15 45	8 37	4 13	10 57	3 22			
4		4 31	7 29	16 3	13 40	(☉ sets)	11 38	3 28			
F	Sun. af. Afcen.	4 30	7 30	16 20	18 15	8 a 23	0 a 22	3 34			
6	Term e. J. Eva.	4 28	7 32	16 37	22 9	9 35	1 8	3 39			
7	[A.P.L.]	4 26	7 34	16 54	25 7	10 46	1 58	3 43			
8		4 25	7 35	17 10	26 55	11 50	2 51	3 47			
9	Oxford T. ends	4 23	7 37	17 26	27 23	morn	3 46	3 51			
10		4 21	7 39	17 42	26 25	0 43	4 41	3 53			
11	[Old May D.]	4 20	7 40	17 57	23 58	1 23	5 36	3 55			
F	Whit Sunday	4 18	7 42	18 12	20 10	1 53	6 29	3 57			
13	Whit Monday	4 17	7 43	18 27	15 13	2 16	7 20	3 58			
14	Whit Tuesday	4 15	7 45	18 42	9 21	2 34	8 10	3 59			
15	Ember Week	4 14	7 46	18 56	2 51	2 49	9 0	3 59			
16		4 12	7 48	19 10	3 s 55	3 4	9 51	3 58			
17	Prs. Wales b.	4 11	7 49	19 24	10 34	3 19	10 44	3 57			
18		4 9	7 51	19 37	16 39	3 36	11 40	3 55			
F	Tri.S. Q.Ch.b.	Dunf.	7 52	19 50	21 42	(☉ rises)	morn	3 53			
20	[Ca.T.di.m.]	4 7	7 53	20 2	25 17	10 a 9	0 40	3 51			
21		4 5	7 55	20 15	27 9	11 20	1 41	3 47			
22	Prs. Elizab. bo.	Ox.T.b	7 56	20 27	27 12	morn	2 42	3 43			
23	Corpus Christi		7 57	20 38	25 37	0 12	3 41	3 39			
24	Term begins		7 59	20 49	22 41	0 49	4 37	3 34			
25		4 0	8 0	21 0	18 44	1 14	5 27	3 29			
F	1 Sun. af. Trin.	3 59	8 1	21 11	14 5	1 32	6 13	3 23			
27	Ven. Be. [Aug.]	3 58	8 2	21 21	8 58	1 46	6 56	3 16			
28		3 57	8 3	21 31	3 37	1 59	7 37	3 9			
29	K. Char. 2 rest.	3 59	8 4	21 40	1 n 49	2 10	8 16	3 2			
30		3 55	8 5	21 49	7 11	2 20	8 55	2 54			
31		3 54	8 6	21 58	12 19	2 23	9 37	2 45			
Day	Day	Length infrac.	of day	Helioc. long. ♀	Helioc. long. ♀	Helioc. long. ♂	Helioc. long. ⊖	Helioc. long. ♀	Helioc. long. ♂	☽ sets	
1	6	13	14 27	26 54	6 11	26 22	0 11	3 23	55	28 24	1 m 6
7	7	25	15 0	26 57	6 58	24 45	16 52	3 40	40	19 m 52	0 43
13	7	43	15 27	27 11	7 29	27 28	22 39	13 25	3 47	0 20	0 20
19	8	1	15 45	27 24	8 1	0 11	28 25	23 11	20 16	11 a 57	
25	8	16	16 0	27 37	8 33	2 55	4 11	2 m 36	7 52	6 11	34

1799.

May.

17

M D	Day begins	Daylig. ends	Durat. twilig.	Pi. C's node	h's latitude	l's latitude	♂ s latitude	♀ s latitude	♁ s latitude
1	2 6	9 57	2 37	16 8 11	on 12	os 36	1 n 14	1 n 6	1 n 31
7	1 44	10 19	2 48	15 52	o 13	o 35	1 15	1 20	os 6
13	1 19	10 45	3 5	15 33	o 13	o 35	1 15	1 34	1 46
19	o 48	11 20	3 32	15 14	o 13	o 34	1 15	1 45	3 2
25	All daylight.			14 55	o 14	o 34	1 15	1 54	3 40

M D	☉'s longitude		☾'s long.	☾'s latitude	h's longit.	l's longit.	♂ s longit.	♀ s longit.	♁ s long.
1	8 11	3 10	2 9 56	3 s 36	20 26 44	2 11 17	26 11	o 11 24	20 8 1
2	12 1	18	14 44	2 44	20 48	2 30	26 38	11 37	19 38
3	12 59	25	26 32	1 45	20 53	2 44	27 16	12 49	19 10
4	13 57	30	8 8 23	o 41	20 57	2 58	27 54	14 1	18 36
F	14 55	34	20 19	on 26	21 2	3 11	28 32	15 13	18 1
6	15 53	36	2 11 21	1 31	21 6	3 25	29 10	16 25	17 26
7	16 51	36	14 33	2 34	21 11	3 39	29 47	17 37	16 51
8	17 49	34	26 55	3 30	21 16	3 52	o 25 18	18 49	16 15
9	18 47	31	9 26 31	4 17	21 21	4 6	1 320	1 15	39
10	19 45	26	22 22	4 52	21 26	4 20	1 41	21 13	15 4
11	20 43	18	5 5 30	5 13	21 31	4 34	2 19	22 25	14 30
F	21 41	10	18 58	5 17	21 36	4 48	2 57	23 37	13 58
13	22 38	59	2 11 46	5 4	21 41	5 2	3 34	24 48	13 29
14	23 36	46	16 54	4 32	21 46	5 15	4 12	26 0	13 3
15	24 34	32	1 22 22	3 42	21 51	5 29	4 50	27 11	12 41
16	25 32	17	16 5	2 37	21 56	5 43	5 28	28 23	12 22
17	26 29	59	om 59	1 21	22 2	5 57	6 6	29 34	12 7
18	27 27	40	15 56	os 1	22 7	6 11	6 44	o 29 46	11 57
F	28 25	20	o 4 49	1 23	22 13	6 25	7 21	1 57	11 50
20	29 22	59	15 29	2 38	22 18	6 39	7 59	3 8	11 D 48
21	II o	20 36	29 51	3 41	22 24	6 53	8 37	4 19	11 51
22	1 18	12	1 13 49	4 29	22 30	7 7	9 14	5 30	11 58
23	2 15	48	27 21	5 o	22 36	7 21	9 52	6 41	12 10
24	3 13	22	10 22 28	5 15	22 42	7 35	10 30	7 52	12 26
25	4 10	56	23 11	5 13	22 48	7 49	11 7	9 3	12 47
F	5 8	28	5 2 34	4 57	22 54	8 3	11 45	10 14	13 12
27	6 6	1	17 42	4 28	23 0	8 17	12 23	11 25	13 41
28	7 3	32	29 38	3 48	23 6	8 31	13 1	12 36	14 14
29	8 1	3	11 9 28	2 58	23 12	8 45	13 38	13 46	14 51
30	8 58	33	23 15	2 c	23 19	8 59	14 16	14 57	15 32
31	9 56	2	5 8 5	o 58	23 25	9 13	14 54	16 8	16 18

M D	♂ fets	♀ fets	♁ fets	♁ fets	h's declin.	l's declin.	♂ s declin.	♀ s declin.	♁ s declin.
1	9 a 21	11 a 34	10 a 15	8 a 22	22 n 4	20 n 3	24 n 39	23 n 7	19 n 14
7	9 5	11 28	10 31	rises	22 o	20 20	24 43	24 14	16 48
13	8 40	11 21	10 44	4 m 5	21 56	20 36	24 40	24 56	14 23
19	8 33	11 13	10 53	3 47	21 51	20 51	24 31	25 12	12 31
25	8 16	11 2	11 0	2 20	21 46	21 52	24 15	25 2	12 12

The LUNATIONS.

New Moon the 3d day, at 5 minutes past 3 afternoon.
 First quarter the 10th day, at 28 minutes past 11 night.
 Full Moon the 17th day, at 5 minutes past 4 afternoon.
 Last quarter the 25th day, at 14 minutes past 3 morning.

M	Sundays & other	☉	☽	☉'s	☽'s	☽ rises	☽	Clock	
D	remark. days.	rises	sets	declin.	declin.	& sets	South	aft. ☉	
1	Nicomede	3 53	8 7	22 n 6	17 n 3	2 m 45	10 m 17	2' 36"	
2	F 2 Sun. af. Trin.	3 52	8 8	22 14	21 10	3 3	11 3	2 27	
3		3 51	8 9	22 22	24 26	☽ sets	11 52	2 17	
4	K. Geo. III. b.	3 50	8 10	22 29	26 33	9 a 42	0 a 45	2 3	
5	Pr. Ein. Aug. b.	Bonifa.	8 11	22 35	27 22	10 39	1 39	1 57	
6		3 49	8 11	22 42	26 42	11 22	2 35	1 46	
7		3 48	8 12	22 48	24 34	11 56	3 30	1 35	
8		3 47	8 13	22 53	21 3	morn	4 23	1 24	
9	F 3 Sun. af. Trin.	3 47	8 13	22 58	16 23	0 19	5 14	1 13	
10		3 46	8 14	23 3	10 49	0 38	6 3	1 8	
11	St. Barnabas	3 45	8 15	23 7	4 37	0 53	6 51	0 49	
12	Term ends	3 45	8 15	23 11	11 s 54	1 7	7 40	0 37	
13		3 44	8 16	23 15	8 25	1 21	8 30	0 25	
14		3 44	8 16	23 18	14 33	1 37	9 23	0 12	
15		3 44	8 16	23 21	19 53	1 56	10 19	0 b. c	
16	F 4 Sun. af. Tri.	3 44	8 16	23 23	24 1	2 20	11 18	0 13	
17	St. Alban	3 43	8 17	23 25	26 34	☽ rises	morn	0 26	
18		3 43	8 17	23 26	27 20	9 a 55	0 20	0 39	
19		3 43	8 17	23 27	26 22	10 46	1 20	0 51	
20	Tra. Edw. KWS	3 43	8 17	23 28	23 51	11 10	2 19	1 4	
21	Longest Day	3 43	8 17	23 28	20 10	11 31	3 12	1 17	
22		3 43	8 17	23 28	15 38	11 48	4 1	1 30	
23	F 5 Sun. aft. Tri.	3 43	8 17	23 27	10 34	morn	4 46	1 43	
24	Nativ. J. Bapc.	3 43	8 17	23 26	15 11	0 0	5 27	1 56	
25	[Midf.]	3 43	8 17	23 25	0 n 16	0 12	6 7	2 8	
26		3 44	8 16	23 23	5 41	0 23	6 47	2 21	
27		3 44	8 16	23 21	10 54	0 34	7 27	2 34	
28		3 44	8 16	23 18	15 45	0 47	8 8	2 46	
29	St. Peter	3 44	8 16	23 15	20 4	1 3	8 53	2 58	
30	F 6 Sun. aft. Tri.	3 45	8 15	23 11	23 34	1 23	9 40	3 10	
M	Day	Length	Helioc.	Helioc.	Helioc.	Helioc.	Helioc.	Helioc.	h
D	increaf.	of day	long. h	long. 1/2	long. 1/2	long. 1/2	long. 1/2	long. 1/2	sets
1	8 30	16 14	27 53	9 11 0	6 10 1	10 1 54	14 11 19	28 1 11	11 a 8
7	8 40	16 24	28 6	9 41 8	41 8 41	16 38 24	3 18 33	34 10 45	
13	8 44	16 30	28 20	10 13 11	21 12 22	3 46	12 19	10 23	
19	8 50	16 34	28 33	10 44 14	0 28 5	13 28	10 43	10 0	
25	8 50	16 34	28 46	11 16 16	39 3 54	23 8	14 8 25	9 38	

M D	Daylig. begins	Daylig. ends	Durat. twilight	Pl. (s) node	h's latitude	u's latitude	δ's latitude	♀'s latitude	♄'s latitude
1				14 8 33	0 n 14	0 s 33	1 n 15	2 n 1	3 s 40
7				14 14	0 15	0 32	1 15	2 4	3 9
13	All	day	light.	13 55	0 15	0 32	1 15	2 3	3 2 18
19				13 35	0 16	0 32	1 14	1 59	1 12
25				13 16	0 16	0 31	1 14	1 52	0 n 3
M D	☉'s longitude		☽'s long.	☽'s latitude	h's long.	u's long.	δ's long.	♀'s long.	♄'s long.
1	11	53 30	17 8 1	0 n 7	23 26 32	9 11 27	15 26 31	17 26 18	17 8 7
F	11	50 58	29 5	1 13	23 38	9 4	16 9	18 28	17 58
3	12	48 25	11 11 20	2 17	23 45	9 55	16 47	19 33	18 54
4	13	45 51	23 48	3 14	23 51	10 9	17 25	20 48	19 56
5	14	43 16	6 22 8	4 3	23 58	10 23	18 3	21 58	21 0
6	15	40 40	19 23	4 41	24 4	10 37	18 40	23 8	22 6
7	16	38 3	2 20 31	5 5	24 11	10 51	19 18	24 18	23 15
8	17	35 25	15 53	5 12	24 17	11 5	19 56	25 28	24 28
F	18	32 46	29 28	5 3	24 24	11 19	20 34	26 38	25 44
10	19	30 6	13 11 17	4 36	24 31	11 33	21 11	27 47	27 3
11	20	27 25	27 19	3 52	24 38	11 47	21 49	28 57	28 25
12	21	24 43	11 1 32	2 54	24 35	12 1	22 27	0 18	7 29 50
13	22	22 0	25 55	1 44	24 52	12 14	23 4	1 16	11 19
14	23	19 16	10 11 26	0 26	24 59	12 28	23 42	2 25	2 51
15	24	16 31	24 59	0 s 51	25 6	12 42	24 20	3 34	4 26
F	25	13 46	9 4 31	2 8	25 13	12 56	24 57	4 43	6 3
17	26	11 0	23 55	3 15	25 20	13 10	25 35	5 52	7 43
18	27	8 14	8 15 8	4 8	25 27	13 24	26 13	7 7	9 26
19	28	5 27	21 57	4 45	25 35	13 37	26 50	8 9	11 12
20	29	2 40	5 27	5 5	25 42	13 51	27 28	9 18	13 1
21	29	59 52	18 34	5 8	25 49	14 5	28 6	10 26	14 53
22	30	57 5	1 11 19	4 56	25 56	14 18	28 43	11 34	16 47
F	1	54 18	13 43	4 30	26 4	14 32	29 21	12 43	18 44
24	2	51 30	25 52	3 53	26 11	14 46	29 59	13 51	20 43
25	3	48 43	7 14 49	3 5	26 19	14 50	0 18 36	14 59	22 45
26	4	45 56	19 39	2 11	26 26	15 13	1 14	16 7	24 49
27	5	43 9	1 8 28	1 10	26 33	15 26	1 52	17 14	26 54
28	6	40 23	13 20	0 7	26 41	15 39	2 29	18 22	29 0
29	7	37 36	25 21	0 n 58	26 48	15 53	3 7	19 29	1 26 8
F	8	34 50	7 11 33	2 0	26 53	16 6	3 45	20 37	3 17
M D	♄ riles	♃ fets	♀ fets	♄ riles	h's declin.	u's declin.	δ's declin.	♀'s declin.	♄'s declin.
1	3 m 52	10 a 51	11 a 5	3 m 14	21 n 39	21 n 21	23 n 49	24 n 21	13 n 27
7	3 34	10 39	11 1	3 2	21 33	21 34	23 10	23 19	15 33
13	3 15	10 26	10 55	3 56	21 26	21 46	22 43	21 55	18 12
19	2 54	10 12	10 47	2 51	21 19	21 57	22 20	20 10	20 57
25	2 31	9 58	10 37	2 59	21 11	22 6	21 15	18 8	23 13

The LUNATIONS.

New Moon the 3d day, at 27 minutes past 3 morning.
 First quarter the 10th day, at 12 minutes past 4 morning.
 Full Moon the 17th day, at 17 minutes past 1 morning.
 Last quarter the 24th day, at 36 minutes past 8 night.

M D	Sundays & other remark. days	☉ rises	☉ sets	☉'s declin.	☽'s declin.	☽ rises & sets	☽ South	Clock bef. ☉		
1		3 45	8 15	23 n 7	26 n 3	1 m 50	10 m 31	3 23		
2	Visita. Cam. Co.	3 46	8 14	23 3	27 15	2 29	11 26	3 34		
3	Dog days begin	3 46	8 14	22 58	26 59	☽ sets	o a 22	3 45		
4	Transf. St. Mar.	3 47	8 13	22 53	25 10	9 a 52	1 18	3 56		
5	Cam. T. e. Old	3 48	8 12	22 48	21 55	10 17	2 13	4 7		
6	[Midf.]	3 48	8 12	22 42	17 25	10 38	3 5	4 17		
7	<i>F 7 Sun. of Trin.</i>	3 49	8 11	22 36	11 57	10 54	3 55	4 27		
8	Ox. Ad. [T. a. Be.]	3 50	8 10	22 29	5 51	11 9	4 44	4 36		
9		3 51	8 9	22 22	0 s 35	11 22	5 31	4 46		
10		3 51	8 9	22 14	7 11	11 37	6 20	4 54		
11		3 52	8 8	22 6	13 8	11 55	7 11	5 2		
12		3 53	8 7	21 58	18 35	morn	8 4	5 10		
13	Oxfo. Ter. e.	3 54	8 6	21 50	22 58	0 15	9 1	5 18		
14	<i>F 8 Sun. of Trin.</i>	3 55	8 5	21 41	25 57	0 45	10 1	5 24		
15	Swithin	3 56	8 4	21 31	27 17	1 28	11 1	5 31		
16		3 58	8 2	21 22	26 53	2 25	morn	5 36		
17		3 59	8 1	21 12	24 53	☽ rises	0 0	5 42		
18		4 0	8 0	21 1	21 33	9 a 37	0 56	5 47		
19		4 1	7 59	20 50	17 13	9 47	1 47	5 51		
20	Margaret	4 2	7 58	20 39	12 14	10 2	2 34	5 54		
21	<i>F 9 Sun. of Trin.</i>	4 4	7 56	20 28	6 53	10 14	3 18	5 58		
22	Magdalen	4 5	7 55	20 16	1 22	10 25	3 59	6 0		
23		4 6	7 54	20 4	4 n 7	10 37	4 39	6 2		
24		4 7	7 53	19 51	9 26	10 48	5 19	6 4		
25	St. James	4 9	7 51	19 38	14 25	11 2	5 59	6 5		
26	S. Anne	4 10	7 50	19 25	18 53	11 20	6 42	6 5		
27		4 12	7 48	19 12	22 39	11 45	7 28	6 5		
28	<i>F 10 Sun. of Tri.</i>	4 13	7 47	18 58	25 28	morn	8 18	6 4		
29		4 15	7 45	18 44	27 6	0 20	9 11	6 3		
30		4 16	7 44	18 29	27 18	1 7	10 8	6 1		
31		4 18	7 42	18 15	25 57	2 10	11 5	5 58		
M D	Day decreaf.	Length of day	Helioc. long. ♀	Helioc. long. ♀	Helioc. long. ♂	Helioc. long. ⊖	Helioc. long. ♀	Helioc. long. ♂	☽ sets	
1	0	5 16 29	29 26	0 11	11 47	19 17	9 32	2 m 14	21 11 48	9 a 15
7	0	12 16 22	29 13	12 19	21 55	15 15	12 24	2 8 32	28 32 28	8 52
13	0	22 16 12	29 26	12 50	24 32	20 59	22 0	0 m 26	0 m 26	8 29
19	0	36 15 58	29 40	13 21	27 10	26 42	1 33	26 53	1 33	8 6
25	0	52 15 42	29 53	13 54	29 47	2 26	11 6	1 8 57	2 26 11	7 43

1799.

July.

21

M	Day	lig.	Day	Durat.	Pl. D's	h's	U's	S's	F's	G's
D	begins	ends	twilig.	light.	node	latitude	latitude	latitude	latitude	latitude
1					12 8 57	o n 17	o s 31	1 n 13	1 n 40	o n 58
7	All	day			12 38	o 17	o 30	1 12	1 24	1 37
13					12 19	o 18	o 30	1 11	1 4	1 50
19					12 0	o 18	o 30	1 10	o 40	1 38
25	o 45	II 7	3 20		11 41	o 19	o 30	1 9	o 12	1 8
M	O's			D's	D's	h's	U's	S's	F's	G's
D	longitude			long.	latitude	long.	long.	long.	long.	long.
1	29	9 32	4	20 II 1	2 n 58	27 27	3 16 II 19	4 8 22	21 8 44	5 26 27
2	10	29 18		2 26 45	3 49	27 11	16 32	5 0	22 51	7 37
3	11	26 31		15 46	4 28	27 18	16 46	5 38	23 57	9 47
4	12	23 45		29 4	4 54	27 26	16 59	6 16	25 4	11 58
5	13	20 59		12 36	5 5	27 33	17 12	6 54	26 10	14 8
6	14	18 13		26 20	4 57	27 41	17 26	7 32	27 17	16 17
F	15	15 27		10 13	4 33	27 49	17 39	8 9	28 23	18 25
8	16	12 40		24 12	3 52	27 56	17 52	8 47	29 29	20 32
9	17	9 54		8 17	2 57	28 4	18 5	9 25	30 35	22 38
10	18	7 7		22 24	1 58	28 11	18 18	10 2	1 40	24 43
11	19	4 20		6 34	o 37	28 19	18 31	10 40	2 46	26 47
12	20	1 33		20 45	o s 38	28 27	18 44	11 18	3 52	28 49
13	20	58 47		4 54	1 51	28 35	18 56	11 55	4 57	30 48
F	21	56 0		19 1	2 57	28 42	19 9	12 33	6 1	2 46
15	22	53 13		3 5	3 51	28 50	19 22	13 11	7 6	4 43
16	23	50 27		16 49	4 31	28 58	19 34	13 49	8 10	6 38
17	24	47 41		o 24	4 55	29 6	19 47	14 27	9 15	8 31
18	25	44 56		13 42	5 2	29 14	20 0	15 5	10 19	10 22
19	26	42 11		26 41	4 53	29 22	20 12	15 42	11 23	12 11
20	27	39 27		9 20	4 28	29 30	20 25	16 20	12 27	13 59
F	28	36 44		21 43	3 54	29 38	20 37	16 58	13 30	15 45
22	29	34 1		3 50	3 9	29 46	20 49	17 36	14 33	17 29
23	30	31 20		15 46	2 16	29 53	21 2	18 14	15 36	19 11
24	1	28 39		27 36	1 17	o 12	21 14	19 2	16 39	20 52
25	2	26 0		9 24	o 15	o 8	21 26	19 29	17 47	22 31
26	3	23 22		21 18	o n 48	o 16	21 38	20 7	18 43	24 9
27	4	20 45		3 II 21	1 50	o 24	21 50	20 45	19 44	25 45
F	5	18 9		15 39	2 48	o 32	22 2	21 23	20 46	27 18
29	6	15 34		28 15	3 38	o 39	22 14	22 1	21 47	28 50
30	7	13 0		11 13	4 19	o 47	22 25	22 38	22 48	30 20
31	8	10 27		24 31	4 48	o 55	22 37	23 16	23 49	31 48
M	U	S	F	G	h's	U's	S's	F's	G's	
D	rises	sets	sets	rises	declin.	declin.	declin.	declin.	declin.	
1	2 m II	9 a 44	10 a 25	3 m 19	21 n 3	22 n 15	20 n 22	15 n 51	24 n 19	
7	1 49	9 30	10 12	sets	20 54	22 23	19 25	13 22	23 48	
13	1 28	9 14	9 58	8 a 48	20 46	22 31	18 23	10 42	21 47	
19	1 7	8 57	9 42	8 51	20 36	22 37	17 16	7 55	18 44	
25	o 52	8 39	9 25	8 45	20 27	22 42	16 5	5 4	15 5	

The LUNATIONS.

New Moon the 1st day, at 46 minutes past 1 afternoon.
 First quarter the 8th day, at 55 minutes past 8 morning.
 Full Moon the 15th day, at 29 minutes past noon.
 Last quarter the 23d day, at 21 minutes past 2 afternoon.
 New Moon the 30th day, at 0 minutes past 11 night.

M	Sundays & other	☉	☽	☉'s	☽'s	☽ rises	☽	Clock
D	remark. days	rises	sets	declin.	declin.	& sets	South	bef. ☉
1	Lammas Day	4 19	7 41	18 n 0	23 n 4	☽ sets 8 a 39	0 56	5 55
2		4 21	7 39	17 44	18 43	8 a 39	0 56	5 52
3		4 22	7 38	17 29	13 26	8 a 59	1 49	5 47
4	Y 11 Sun. a. Tri.	4 24	7 36	17 13	7 18	9 14	2 38	5 42
5		4 26	7 31	16 57	0 46	9 29	3 29	5 37
6	Transfiguration	4 27	7 33	16 40	5 s 48	9 43	4 17	5 31
7	Prs. Amelior	4 29	7 31	16 23	12 3	9 59	5 7	5 24
8	[Na. of] Jesus	4 31	7 29	16 6	17 39	10 10	5 50	5 16
9		4 32	7 28	15 49	22 15	10 46	6 55	5 9
10	Lawrence	4 34	7 26	15 32	25 31	11 23	7 53	5 0
11	Y 12 S. a. Tr. Duc.	D. d. e.	7 24	15 14	27 14	morn	8 53	4 51
12	Pr. W. a. b. [Br. b.]	O. Lam	7 23	14 56	27 17	0 15	9 52	4 41
13			4 39	7 21	14 38	25 44	1 20	10 48
14			4 41	7 19	14 19	22 46	2 36	11 41
15	Assumption		4 43	7 17	14 0	18 43	☽ rises morn	4 8
16	D. of York. b.		4 45	7 15	13 42	13 54	8 a 10	0 30
17			4 46	7 14	13 22	8 35	8 22	1 15
18	Y 13 Sun. a. Tri.		4 48	7 12	13 3	3 3	8 34	1 57
19			4 50	7 10	12 44	2 n 31	8 46	2 37
20			4 52	7 8	12 24	7 57	8 57	3 17
21	D. of Clara. b.		4 54	7 6	12 4	13 4	9 12	3 58
22			4 55	7 5	11 44	17 42	9 27	4 40
23			4 57	7 3	11 23	21 41	9 49	5 25
24	St. Bartholomew		4 59	7 1	11 3	24 49	10 19	6 12
25	Y 14 Sun. af. Tri.		5 1	6 59	10 42	26 51	10 59	7 4
26			5 3	6 57	10 21	27 35	11 54	7 59
27			5 5	6 55	10 0	26 48	morn	8 55
28	Augustine		5 7	6 53	9 39	24 29	1 6	9 52
29	John Bap. beh.		5 9	6 51	9 18	20 40	2 25	10 40
30			5 10	6 50	8 56	15 34	☽ sets 11 43	0 22
31			5 12	6 48	8 35	0 21	7 a 25	0 a 35
M	Day	Length	Helioc.	Helioc.	Helioc.	Helioc.	Helioc.	Helioc.
D	decreaf.	of day	long. ♀	long. ♂	long. ♀	long. ♂	long. ♀	long. ♂
1	1	12 15	22	0 8	14 11	29	2 12	5 11
7	1	3 15	3	0 22	15 1	5 28	14 53	1 34
13	1	5 14	43	0 35	15 32	8 52	20 39	11 11
19	2	13 14	21	0 48	16 3	10 43	26 25	20 40
2	2	3 13	59	1 2	16 13	20 2	27 12	0 18

1799.

August.

23

M	Day-lig D begins	Day-lig ends	Durat. twilig.	Pl. D's node	h's latitude	l's latitude	♂'s latitude	♀'s latitude	♄'s latitude
1	1 23	10 34	2 58	11 8 19	0 n 19	0 s 29	1 n 8	0 s 25	0 n 15
7	1 47	10 13	2 46	11 0	0 20	0 29	1 7	1 2	0 s 41
13	2 9	9 51	2 34	10 41	0 20	0 29	1 6	1 42	1 43
19	2 29	9 30	2 25	10 22	0 21	0 29	1 4	2 25	2 45
25	2 47	9 13	2 18	10 3	0 22	0 28	1 3	3 11	3 42
M	♄'s longitude		D's long.	D's latitude	h's long.	l's long.	♂'s long.	♀'s long.	♄'s long.
1	8 9	7 55	8 11	5 n 0	1 2	22 11 48	23 54	24 49	3 17 14
2	10 5	24 22	8 8	4 55	1 10	23 0	24 32	25 49	4 40
3	11 2	54 6	17 4	35	1 18	23 11	25 10	26 48	6 3
F	12 0	24 20	34 3	53	1 26	23 22	25 48	27 47	7 24
5	12 57	56 4	54 2	58	1 33	23 34	26 24	28 46	8 43
6	13 55	28 19	12 1	52	1 41	23 45	27 4	29 45	10 0
7	14 53	1 31	25 0	39	1 48	23 56	27 42	0 43	11 15
8	15 50	35 17	32 0	36	1 56	24 7	28 20	1 41	12 28
9	16 48	9 1	32 1	47	2 4	24 18	28 58	2 38	13 30
10	17 45	45 15	24 2	52	2 11	24 29	29 36	3 35	14 48
F	18 43	21 29	8 3	46	2 19	24 39	0 14	4 31	15 54
12	19 40	58 12	44 4	27	2 27	24 50	0 52	5 27	16 58
13	20 38	36 26	8 4	52	2 34	25 0	1 30	6 22	17 59
14	21 36	15 9	21 5	1	2 42	25 11	2 8	7 17	18 58
15	22 33	56 22	19 4	54	2 49	25 21	2 46	8 11	19 54
16	23 31	38 5	3 4	33	2 57	25 31	3 24	9 5	20 48
F	24 29	20 17	32 3	59	3 4	25 41	4 2	9 58	21 38
17	25 27	5 29	47 3	14	3 12	25 51	4 40	10 51	22 24
19	26 24	51 11	50 2	21	3 19	26 1	5 19	11 43	23 7
20	27 22	39 23	43 1	22	3 26	26 11	5 57	12 34	23 47
21	28 20	29 5	31 0	20	3 34	26 20	6 35	13 25	24 23
22	29 18	20 17	19 0	43	3 41	26 30	7 14	14 15	24 56
23	♄ 0 16	13 29	12 1	44	3 48	26 39	7 52	15 5	25 24
24	1 14	8 11	14 2	42	3 55	26 49	8 30	15 54	25 47
F	2 12	5 23	33 3	33	4 2	26 58	9 9	16 41	26 4
26	3 10	4 6	12 4	16	4 10	27 7	9 47	17 28	26 16
27	4 8	5 19	14 4	46	4 17	27 16	10 25	18 15	26 24
28	5 6	7 2	42 5	2	4 24	27 25	11 3	19 1	26 27
29	6 4	12 16	35 5	1	4 31	27 33	11 41	19 46	26 24
30	7 2	18 0	51 4	42	4 38	27 42	12 20	20 30	26 14
11	8 0	26 15	23 4	4	4 45	27 51	12 58	21 13	25 56
M	♄ rises	♂ sets	♀ sets	♄ sets	h's declin.	l's declin.	♂'s declin.	♀'s declin.	♄'s declin.
1	0 m 32	8 a 21	9 a 6	8 a 33	20 n 16	22 n 47	14 n 38	1 n 40	10 n 34
7	0 11	8 6	8 49	8 18	20 6	22 51	13 20	1 s 14	6 43
13	11 a 49	7 53	8 31	8 1	19 57	22 54	11 59	4 5	3 10
19	11 28	7 34	8 13	7 41	19 47	22 56	10 34	6 51	0 12
25	11 6	7 18	7 55	7 17	19 37	22 58	9 7	9 30	1 s 49

B 4

The LUNATIONS.

First quarter the 6th day, at 59 minutes past 2 afternoon.
 Full Moon the 14th day, at 31 minutes past 2 morning.
 Last quarter the 22d day, at 32 minutes past 7 morning.
 New Moon the 29th day, at 4 minutes past 8 morning.

M	Sundays & other	☉	☽	☉'s	☽'s	☽ rises	☽	Clock
D	remark. days	rises	sets	declin.	declin.	& sets	South	aft. ☉
2	<i>1st Sun. of Tri.</i> Lond. bu. [Giles]	5 14	6 46	8 n 13	2 n 52	7 a 38	1 a 26	o' 15
3		5 16	6 44	7 51	3 s 58	7 54	2 17	o 34
4		5 18	6 42	7 29	10 34	8 11	3 8	o 53
5		5 20	6 40	7 7	16 32	8 30	4 1	1 12
6		5 22	6 38	6 44	21 29	8 55	4 57	1 32
7	Enurchus	5 24	6 36	6 22	25 8	9 28	5 55	1 52
8		5 26	6 34	6 0	27 12	10 14	6 54	2 12
9	<i>2nd Sun. of Tri.</i> [Nativ. V. M.]	5 28	6 32	5 37	27 37	11 18	7 54	2 32
10		5 30	6 30	5 14	26 24	morn	8 51	2 52
11		5 32	6 28	4 52	23 47	o 31	9 44	3 13
12		5 34	6 26	4 29	20 1	1 50	10 33	3 34
13		5 35	6 25	4 6	15 23	3 7	11 19	3 55
14	Holy Crofs	5 37	6 23	3 43	10 12	4 25	morn	4 16
15		5 39	6 21	3 20	4 42	(☽ rises	o 2	4 37
16	<i>3rd Sun. of Tri.</i>	5 41	6 19	2 57	o n 55	7 a 1	o 43	4 58
17	Lambert	5 43	6 17	2 33	6 26	7 13	1 23	5 19
18	<i>Ember Week</i>	5 45	6 15	2 10	11 41	7 25	2 3	5 40
19		5 47	6 13	1 47	16 31	7 40	2 45	6 1
20		5 49	6 11	1 24	20 43	7 59	3 28	6 22
21		5 51	6 9	1 0	24 8	8 25	4 14	6 43
22	St. Matthew	5 53	6 7	0 37	26 31	9 0	5 4	7 4
23	<i>4th Sun. of Tri. K.</i> [Geo. III. cr.]	5 55	6 5	0 13	27 42	9 46	5 57	7 25
24		5 57	6 3	o s 10	27 28	10 51	6 51	7 46
25	Old Holyrood	5 59	6 1	0 33	25 46	morn	7 47	8 6
26		6 1	5 59	0 57	22 34	o 7	8 42	8 26
27	St. Cyprian	6 3	5 57	1 20	18 1	1 31	9 37	8 47
28		6 5	5 55	1 44	12 20	3 0	10 30	9 7
29		6 7	5 53	2 7	5 49	4 29	11 22	9 26
30	<i>5th Sun. of Tri. St.</i> [Ad. Prs. Wir. b.]	6 9	5 51	2 31	1 s 8	☽ sets	o a 13	9 46
	St. Jer.	5 49	2 54	8 5	6 a 24	1 5	10 5	
M	Day	Helio.	Helio.	Helio.	Helio.	Helio.	Helio.	h
D	decreaf.	of day	long. h	long. 1/2	long. 3/4	long. ☉	long. ☽	rites
1	3	2 13 32	18 17	17 11 11	16 11 24	8 59	11 12	11 34
7	3	2 5 13 0	1 30	17 42	19 3	14 48	20 42	4 4
13	3	4 8 12 46	1 44	18 13	21 42	20 38	o 11	o 48
19	4	12 12 22	1 57	18 4	24 21	26 3	9 41	2 46
25	4	3 6 11 58	2 10	19 16	27 0	27 23	19 12	9 16

1799.

September.

25

M	Day lig. begins	Day lig ends.	Durat. twilig.	Pl. D's node	h's latitude	l's latitude	δ's latitude	♀'s latitude	♄'s latitude
1	3 7	8 50	2 11	98 40	0 n 22	0 s 28	1 n 1	4 s 7	4 s 20
7	3 24	8 36	2 6	9 21	0 23	0 28	0 59	4 57	4 1
13	3 37	8 27	2 4	9 2	0 24	0 28	0 57	5 46	2 37
19	3 52	8 8	2 1	8 43	0 24	0 28	0 56	6 33	0 40
25	4 5	7 52	2 0	8 24	0 25	0 28	0 54	7 13	0 n 55
M	☉'s longitude		☽'s long.	☽'s latitude	h's long.	l's long.	δ's long.	♀'s long.	♄'s long.
F	8 58	35	0 n 5	3 n 10	4 52	27 11 59	13 12 36	21 54	25 12 33
2	9 56	46	14 49	2 2	4 59	28 7	14 14	22 35	25 7
3	10 54	59	29 28	0 47	5 6	28 15	14 53	23 15	24 32
4	11 53	13	13 11 57	0 s 31	5 13	28 23	15 31	23 53	23 48
5	12 51	28	28 12	1 45	5 19	28 31	16 10	24 30	23 0
6	13 49	45	12 13	2 52	5 26	28 39	16 48	25 6	22 9
7	14 48	4	25 59	3 48	5 32	28 46	17 27	25 41	21 15
F	15 46	24	9 13 30	4 30	5 39	28 53	18 5	26 15	20 17
9	16 44	45	22 48	4 56	5 45	29 0	18 44	26 48	19 16
10	17 43	8	5 51	5 7	5 52	29 7	19 22	27 20	18 13
11	18 41	32	18 43	5 2	5 58	29 14	20 1	27 50	17 12
12	19 39	58	1 21	4 42	6 5	29 21	20 39	28 18	16 14
13	20 38	26	13 48	4 9	6 11	29 28	21 18	28 44	15 19
14	21 36	55	26 3	3 24	6 17	29 34	21 56	29 8	14 28
F	22 35	27	8 8	2 31	6 23	29 41	22 35	29 31	13 44
16	23 34	1	20 4	1 32	6 29	29 47	23 14	29 53	13 8
17	24 32	36	1 54	0 29	6 35	29 53	23 52	0 13	12 39
18	25 31	14	13 41	0 n 35	6 41	29 59	24 31	0 31	12 20
19	26 29	54	25 28	1 37	6 47	0 3	25 10	0 47	12 10
20	27 28	36	7 11 18	2 36	6 53	0 11	25 49	1 1	12 10
21	28 27	21	19 21	3 29	6 59	0 16	26 27	1 13	12 20
F	29 26	8	1 38	4 14	7 5	0 21	27 6	1 23	12 40
23	0 24	57	14 14	4 48	7 11	0 26	27 45	1 31	13 10
24	1 23	49	27 13	5 8	7 17	0 31	28 23	1 36	13 49
25	2 22	43	10 40	5 12	7 22	0 36	29 2	1 39	14 36
26	3 21	40	24 35	4 58	7 28	0 40	29 40	1 40	15 31
27	4 20	38	8 56	4 26	7 33	0 44	0 19	1 38	16 33
28	5 19	39	23 39	3 35	7 38	0 48	0 58	1 34	17 43
F	6 18	42	8 37	2 29	7 43	0 52	1 37	1 28	18 58
30	7 17	47	23 41	1 12	7 48	0 56	2 16	1 20	20 20
M	☉ rises	☉ sets	☽ rises	☽ sets	h's declin.	l's declin.	δ's declin.	♀'s declin.	♄'s declin.
1	10 a 52	7 a 0	7 a 32	6 a 46	19 n 26	12 n 59	7 n 24	12 s 22	2 s 13
7	10 33	6 44	7 11	6 20	19 17	22 59	5 52	14 33	0 14
13	10 14	6 29	6 49	rises	19 8	23 0	4 21	16 26	3 n 23
19	9 55	6 13	6 26	4 m 33	19 0	23 0	2 46	17 53	6 23
25	9 37	5 58	6 2	4 18	18 52	23 0	1 13	18 49	6 56

The LUNATIONS.

First quarter the 5th day, at 34 minutes past 11 night.

Full Moon the 13th day, at 24 minutes past 7 afternoon.

Last quarter the 21st day, at 44 minutes past 10 night.

New Moon the 28th day, at 36 minutes past 5 afternoon.

M	Sundays & other	☉	☉	☉'s	☉'s	☾ rises	☾	Clock	
D	remark. days	rises	sets	declin.	declin.	& sets	South	aft. ☉	
1	Remigius	6 13	5 47	3 s 17	14 s 34	6 a 41	1 a 59	10' 24'	
2		6 15	5 45	3 41	20 8	7 4	2 56	10 43	
3		6 17	5 43	4 24	22	7 35	3 55	11 1	
4		6 19	5 41	4 27	26 59	8 18	4 56	11 19	
5		6 21	5 39	4 50	27 50	9 17	5 57	11 37	
F	20 Sun. af. Tri.	6 23	5 37	5 13	26 59	10 28	6 55	11 54	
7	[Faith]	6 25	5 35	5 56	24 39	11 46	7 50	12 11	
8		6 27	5 33	5 59	21 7	morn	8 40	12 28	
9	Denys	6 28	5 32	6 22	16 41	1 5	9 26	12 44	
10	Ox. & Cam. T. b	6 30	5 30	6 45	11 38	2 21	10 9	13 0	
11	[Old Mic.	6 32	5 28	7 8	6 13	3 35	10 50	13 15	
12		6 34	5 26	7 30	0 37	4 47	11 30	13 30	
F	21 Sun. s. Trin.	6 35	5 24	7 53	4 n 57	☾ rises	morn	13 44	
14	[Tr. K. Edw. C.	6 38	5 22	8 15	10 19	5 a 40	0 10	13 58	
15		6 40	5 20	8 38	15 18	5 56	0 51	14 11	
16		6 42	5 18	9 0	19 43	6 12	1 34	14 24	
17	Etheldred	6 44	5 16	9 22	23 22	6 34	2 19	14 36	
18	St. Luke	6 46	5 14	9 44	26 4	7 4	3 6	14 47	
19		6 48	5 12	10 5	27 35	7 47	3 57	14 58	
F	22 Sex. af. Tri.	6 50	5 10	10 27	27 48	8 43	4 50	15 8	
21		6 52	5 8	10 49	26 36	9 52	5 44	15 19	
22		6 54	5 6	11 10	23 59	11 11	6 38	15 27	
23		6 55	5 5	11 31	20 3	morn	7 31	15 35	
24		6 57	5 3	11 52	14 56	0 34	8 23	15 42	
25	K. Geo. 3. see	Crispin	5 1	12 13	8 52	2 0	9 13	15 49	
26	K. Geo. 3. proe	7 1	4 59	12 33	2 9	3 29	10 4	15 55	
F	23 Sun. af. Tri.	7 3	4 57	12 54	4 s 50	4 57	10 55	16 0	
28	St. Sim. & Jude	7 5	4 55	13 14	11 40	☾ sets	11 48	16 4	
29		7 7	4 53	13 34	17 50	5 a 11	0 a 44	16 8	
30		7 9	4 51	13 54	22 50	5 35	1 43	16 11	
31		7 10	4 50	14 13	26 14	6 15	2 46	16 13	
M	Day	Length	Helioc.	Helioc.	Helioc.	Helioc.	Helioc.	h	
D	decreaf.	of day	long. ♀	long. ♀	long. ♂	long. ☉	long. ♀	long. ♂	rises
1	4 48	11 35	26 23	19 11	47 20	11 24	8 17	28 44	16 25 45 0 m 28
7	5 23	11 11	2 37	20 18	2 12	14 12	8 17	20 31	0 6
13	5 46	10 48	2 50	20 49	5 4	20 0	17 50	18 42	11 a 45
19	6 9	10 25	3 3	21 20	7 47	26 6	27 25	12 3	11 24
25	6 32	10 2	3 17	21 51	10 30	2 8	5 7 8	0 21	11 3

1799.

October.

27

M	Daylig. begins	Daylig. ends	Durat. twilig.	Pl. D's node	h's latitude	U's latitude	δ's latitude	♀'s latitude	♂'s latitude
1	4 18	7 42	1 59	88 5	on 26	os 27	on 52	7 s 41	1 n 46
7	4 31	7 29	1 58	7 46	o 27	o 27	o 50	7 49	1 56
13	4 43	7 17	1 57	7 27	o 28	o 27	o 48	7 28	1 40
19	4 55	7 5	1 57	7 8	o 28	o 27	o 45	6 37	1 9
25	5 6	6 54	1 58	6 49	o 29	o 26	o 43	5 22	o 31
M	O's longitude		D's long.	D's latitude	h's long.	U's long.	δ's long.	♀'s long.	♂'s long.
1	8	16 54	8M42	os 10	7Ω53	100 0	2=55	111 11	211245
2	9	16 3	23 32	1 30	7 58	1 3	3 34	o 59	23 12
3	10	15 13	8 4 6	2 43	8 3	1 6	4 13	o 44	24 34
4	11	14 25	22 19	3 45	8 8	1 9	4 52	o 27	26 22
5	12	13 40	6V8 9	4 31	8 13	1 12	5 31	o 7	28 1
F	13	12 55	19 39	5 1	8 18	1 15	6 10	29=44	29 41
7	14	12 13	2=48	5 14	8 22	1 18	6 50	29 18	1=22
8	15	11 32	15 39	5 12	8 27	1 20	7 20	28 50	3 4
9	16	10 53	28 15	4 54	8 31	1 22	8 8	28 21	4 47
10	17	10 16	10X37	4 22	8 36	1 24	8 48	27 51	6 30
11	18	9 41	22 49	3 39	8 40	1 26	9 27	27 20	8 14
12	19	9 8	4V52	2 47	8 44	1 28	10 2	26 48	9 58
F	20	8 36	16 47	1 48	8 48	1 29	10 46	26 14	11 43
14	21	8 6	28 38	o 44	8 52	1 30	11 25	25 38	13 27
15	22	7 39	10826	on 21	8 56	1 31	12 4	25 2	15 11
16	23	7 15	22 13	1 25	9 0	1 32	12 43	24 25	16 55
17	24	6 50	4II 2	2 26	9 4	1 33	13 23	23 48	18 38
18	25	6 30	15 56	3 21	9 8	1 33	14 2	23 12	20 20
19	26	6 11	28 0	4 8	9 11	1R 33	14 41	22 37	22 2
F	27	5 55	102616	4 45	9 15	1 33	15 21	22 2	23 43
21	28	5 41	22 49	5 9	9 18	1 33	16 0	21 27	25 24
22	29	5 30	5Ω43	5 18	9 22	1 32	16 40	20 53	27 5
23	30	5 21	19 2	5 11	9 25	1 31	17 19	20 20	28 45
24	1 5	14 2=48	4 46	9 28	1 30	17 59	19 48	om 25	
25	2 5	10 17	o 4	3 9	31	1 20	18 39	19 17	2 4
26	3 5	8 1=38	3 3	9 34	1 28	19 18	18 48	3 43	
F	4 5	7 16 36	1 56	9 36	1 26	19 58	18 21	5 21	
28	5 5	9 1M46	o 28	9 39	1 24	20 38	17 57	6 58	
29	6 5	13 16 59	os 57	9 41	1 22	21 17	17 35	8 35	
30	7 5	19 2 4 6	2 17	9 44	1 20	21 57	17 14	10 12	
31	8 5	26 16 58	3 26	9 46	1 18	22 37	16 58	11 48	
M	U's rises	δ's rises	♀'s rises	♂'s rises	h's declin.	U's declin.	δ's declin.	♀'s declin.	♂'s declin.
1	9 a 17	5 m 39	5 a 35	4 m 30	18 n 44	23 n 1	os 22	19 s 5	4 n 54
7	8 56	5 39	5 11	5 3	18 38	23 1	1 57	18 32	1 14
13	8 34	5 39	4 46	5 40	18 32	23 1	3 32	17 6	3 s 7
19	8 12	5 39	4 21	6 18	18 26	23 1	5 6	14 56	7 32
25	7 50	5 40	3 57	fets	18 22	23 1	6 39	12 31	11 43

The LUNATIONS.

First quarter the 4th day, at 34 minutes past 11 morning.
 Full Moon the 12th day, at 8 minutes past 2 afternoon.
 Last quarter the 20th day, at 50 minutes past 11 morning.
 New Moon the 27th day, at 50 minutes past 3 morning.

M	Sundays & other	☉	☽	☉'s	☽'s	☽ rises	☽	Clock	
D	remark. days	rises	sets	declin.	declin.	& sets	South	aft. ☉	
1	All Saints	7 12	4 48	14 s 33	27 s 47	7 a 9	3 a 50	16' 14"	
2	Pr. Edward bonn	All Sou	4 46	14 52	27 29	8 16	4 50	16 15	
3	24 S. a. T. Pri. S.	7 16	4 44	15 11	25 30	9 34	5 47	16 15	
4	King W. lan. [b]	7 18	4 42	15 29	22 11	10 54	6 40	16 14	
5	Powder Plot	7 19	4 41	15 47	17 54	morn	7 27	16 12	
6	Leonard Ter. d.	7 21	4 39	16 6	12 57	0 12	8 11	16 9	
7		7 23	4 37	16 23	7 35	1 27	8 52	16 6	
8	Pri. Au. Sep. b.	7 24	4 36	16 41	2 3	2 38	9 32	16 1	
9	Lord Mayor's d.	7 26	4 34	16 58	3 n 32	3 49	10 12	15 56	
10	25 Sun. a. Tri.	7 28	4 32	17 15	8 57	4 59	10 52	15 50	
11	St. Martin	7 30	4 30	17 32	14 3	6 11	11 34	15 43	
12	Cam. T. div. m.	7 31	4 29	17 48	18 38	☽ rises	morn	15 36	
13	Britius	7 33	4 27	18 4	22 31	4 a 40	0 18	15 27	
14		7 34	4 26	18 20	25 29	5 8	1 4	15 18	
15	Machutus	7 36	4 24	18 35	27 19	5 46	1 54	15 8	
16		7 37	4 23	18 50	27 51	6 36	2 46	14 57	
17	26 Sun. af. Tri.	7 39	4 21	19 5	27 1	7 41	3 39	14 45	
18	[Hugh	7 40	4 20	19 19	24 48	8 54	4 32	14 32	
19		7 42	4 18	19 34	21 18	10 13	5 23	14 19	
20	Edmund	7 43	4 17	19 47	16 30	11 36	6 13	14 4	
21		7 45	4 15	20 11	11 5	morn	7 2	13 49	
22	Cecilia. O. Mart.	7 46	4 14	20 14	4 48	0 59	7 50	13 33	
23	Clement	7 47	4 13	20 26	1 s 53	2 23	8 38	13 16	
24	27 Sun. af. Tri.	7 49	4 11	20 38	8 39	3 51	9 28	12 58	
25	Duke of Glo. b.	Cather.	4 10	20 50	15 4	5 21	10 21	12 40	
26		7 51	4 9	21 2	20 39	6 55	11 18	12 20	
27		7 52	4 8	21 13	24 51	☽ sets	0 a 20	12 0	
28	Mic. Term ends	7 54	4 6	21 23	27 18	4 a 45	1 24	11 40	
29		7 55	4 5	21 34	27 46	5 49	2 28	11 18	
30	St. Andrew	7 56	4 4	21 43	26 21	7 6	3 29	10 56	
M	Day	Length	Helioc.	Helioc.	Helioc.	Helioc.	Helioc.	H	
D	decreaf.	of day	long. ♀	long. ♂	long. ♂	long. ☉	long. ♀	long. ♀	rises
1	6 57	9 36	36 32	22 11	27 13	42 9 8	6 18 8	13 22 11	45 10 a 38
7	7 20	9 14	3 45	22 58	16 28	15 7	27 51	9 27	10 14
13	7 39	8 55	3 59	23 29	19 15	21 9	7 11	30 25	58 9 50
19	7 58	8 36	4 12	24 0	22 3	27 13	17 10	13 13	5 4 9 26
25	8 14	8 20	4 25	24 31	24 52	3 11	17 26	52 1 35	9 9

M	Daylig.	Daylig.	Durat.	Pl. D's	h's	l's	♂'s	♀'s	♄'s
D	begins	ends	twilig.	node	latitude	latitude	latitude	latitude	latitude
1	5 17	6 43	1 59	6 8 27	0 n 30	0 s 26	0 n 40	3 s 39	0 s 16
2	7 5 25	6 35	2 30	6 7 0	0 31	0 26	0 37	2 11	0 55
13	5 34	6 26	2 20	5 48	0 32	0 25	0 35	0 52	1 30
19	5 41	6 12	2 51	5 29	0 33	0 25	0 32	0 n 15	1 59
25	5 48	6 12	2 32	5 10	0 34	0 24	0 29	1 10	2 18

M	☉'s		D's	D's	h's	l's	♂'s	♀'s	♄'s
D	longitude		long.	latitude	long.	long.	long.	long.	long.
1	17	9 5 35	17 27	4 s 20	9 48	10 16	23 17	16 24	13 24
2	10	5 46	15 31	4 57	9 50	1 13	23 56	16 30	15 0
F	11	5 58	29 8	5 15	9 52	1 10	24 36	16 19	16 35
4	12	6 12	12 19	5 17	9 54	1 7	25 16	16 10	18 9
5	13	6 27	25 8	5 2	9 56	1 4	25 56	16 4	19 43
6	14	6 44	7 37	4 33	9 58	1 1	26 36	16 12	21 17
7	15	7 2	19 50	3 53	9 59	0 57	27 16	16 3	22 50
8	16	7 22	1 52	3 2	10 1	0 53	27 56	16 7	24 23
9	17	7 43	13 46	2 4	10 2	0 49	28 36	16 12	25 56
F	18	8 5	25 35	1 2	10 3	0 45	29 16	16 18	27 29
11	19	8 29	7 23	0 n 3	10 4	0 41	29 56	16 26	29 1
12	20	8 55	19 11	1 8	10 5	0 37	0 m 37	16 36	0 33
13	21	9 22	1 11	2 11	10 6	0 32	1 17	16 48	2 5
14	22	9 51	12 58	3 7	10 7	0 27	1 57	17 3	3 36
15	23	10 22	25 1	3 56	10 8	0 22	2 37	17 20	5 7
16	24	10 54	7 12	4 35	10 9	0 16	3 17	17 39	6 38
F	25	11 29	19 35	5 2	10 9	0 11	3 58	18 0	8 9
18	26	12 5	2 12	5 15	10 10	0 6	4 38	18 24	9 39
19	27	12 43	15 5	5 12	10 10	0 0	5 18	18 50	11 9
20	28	13 23	28 18	4 53	10 11	29 54	5 59	19 17	12 39
21	29	14 4	11 53	4 18	10 R 11	29 48	6 39	19 46	14 8
22	♂ 14 48	25 51	3 26	3 26	10 11	29 42	7 20	20 16	15 37
23	1 15 33	10 12	2 20	2 20	10 10	29 35	8 0	20 47	17 5
F	2 16 20	24 53	1 4	1 4	10 10	29 29	8 41	21 20	18 33
25	3 17 8	9 51	0 s 18	0 s 18	10 9	29 22	9 21	21 55	20 1
26	4 17 58	24 59	1 39	1 39	10 9	29 16	10 2	22 31	21 28
27	5 18 48	10 6	2 54	2 54	10 8	29 9	10 42	23 8	22 54
28	6 19 41	25 4	3 55	3 55	10 7	29 2	11 23	23 46	24 19
29	7 20 34	9 44	4 40	4 40	10 6	28 55	12 3	24 26	25 44
30	8 21 28	24 0	5 6	5 6	10 5	28 48	12 44	25 8	27 7

M	♃	♄	♀	♁	h's	l's	♂'s	♀'s	♄'s
D	rises	rises	rises	sets	declin.	declin.	declin.	declin.	declin.
1	7 a 22	5 m 39	5 m 16	4 a 56	13 n 18	23 n 2	8 s 26	9 s 57	16 s 8
7	6 55	5 37	4 51	4 49	18 16	23 2	9 56	8 20	19 23
13	6 29	5 36	4 28	4 46	18 15	23 3	11 24	7 25	22 5
19	6 3	5 35	4 8	4 45	18 15	23 3	12 49	7 9	24 6
25	5 36	5 34	3 51	4 48	18 16	23 4	14 10	7 1	25 24

THE LUNATIONS.

First quarter the 4th day, at 26 minutes past 3 morning.
 Full Moon the 12th day, at 55 minutes past 8 morning.
 Last quarter the 19th day, at 41 minutes past 10 night.
 New Moon the 26th day, at 54 minutes past 2 afternoon.

M D	Sundays & other remark. days	☉ rises	☉ sets	☉'s declin.	☽'s declin.	☽ rises & sets	☽ South	Clock aft. ☉	
	F Advent Sunday	7 57	4 3	21 s 53	23 s 22	8 a 27	4 a 25	10 34	
2		7 58	4 2	22 2	19 15	9 49	5 16	10 10	
3		7 59	4 1	22 10	14 21	11 7	6 1	9 46	
4		8 0	4 0	22 19	9 0	morn	6 44	9 22	
5		8 1	3 59	22 26	3 27	0 22	7 24	8 57	
6	Nicholas	8 2	3 58	22 34	2 n 9	1 32	8 3	8 31	
7		8 2	3 58	22 40	7 37	2 41	8 42	8 5	
	F 2 Sun. in Adve. [Concept.]	8 3	3 57	22 47	12 47	3 49	9 23	7 39	
9		8 4	3 56	22 53	17 31	5 0	10 6	7 12	
10		8 4	3 56	22 58	21 35	6 12	10 51	6 45	
11		8 5	3 55	23 3	24 48	7 23	11 40	6 17	
12		8 5	3 55	23 8	26 55	☽ rises	morn	5 49	
13	Lucy	8 6	3 54	23 12	27 46	4 a 22	0 32	5 21	
14		8 6	3 54	23 16	27 14	5 22	1 25	4 52	
	F 3 Sun. in Advent	8 7	3 53	23 19	25 17	6 35	2 18	4 23	
16	Co. f. e. O. Sap.	8 7	3 53	23 21	22 2	7 53	3 10	3 54	
17	Oxford Term e.	8 7	3 53	23 24	17 40	9 12	4 0	3 24	
18	Ember Week	8 8	3 52	23 25	12 22	10 33	4 48	2 54	
19		8 8	3 52	23 27	6 24	11 54	5 34	2 25	
20		8 8	3 52	23 28	0 0	morn	6 21	1 55	
21	St. Thomas	Shor. d.	3 52	23 28	6 s 32	1 16	7 8	1 25	
	F 4 Sun. in Adve.	8 8	3 52	23 28	12 52	2 40	7 57	0 54	
23		8 8	3 52	23 27	18 36	4 10	8 50	0 24	
24		8 8	3 52	23 26	23 17	5 43	9 47	ob. 6	
	Christmas Day	8 8	3 52	23 25	26 26	7 11	10 49	0 36	
26	St. Stephen	8 7	3 53	23 23	27 45	☽ sets	11 53	1 6	
27	St. John Ev.	8 7	3 53	23 20	27 6	4 a 26	0 a 57	1 36	
28	Innocents	8 7	3 53	23 17	24 40	5 45	1 56	2 6	
	F 2 Sun. af. Chri.	8 6	3 54	23 14	20 51	7 13	2 51	2 35	
30		8 6	3 54	23 10	16 4	8 32	3 40	3 4	
31	Silvester	8 5	3 55	23 6	10 42	9 49	4 25	3 33	
M D	Day decreaf.	Length of day	Helioc. long. ♀	Helioc. long. ♂	Helioc. long. ♀	Helioc. long. ♂	Helioc. long. ♀	Helioc. long. ♂	☽ rises
1	8 28	8 6	48 38	25 11	27 43	9 11	6 34	22 28	8 a 34
7	8 38	7 56	4 52	25 33	0 11	15 28	16 18	16 57	8 8
13	8 46	7 48	5 26	3 3	29 21	34 26	2 16	17 17	7 41
19	8 50	7 44	5 18	26 34	6 24	27 41	5 47	20 50	7 13
25	8 50	7 44	5 31	27 5	9 20	3 33	4 15	28 29	6 43

1799.

December.

31

M D	Day begins	Day lig. ends	Durat. twilig.	Pl. D's node	H's latitude	U's latitude	♂'s latitude	♀'s latitude	♄'s latitude
1	5 54	6 6	2 18	4 51	0 35	0 24	0 26	1 53	2 23
7	5 57	6 3	2 10	4 32	0 36	0 23	0 22	2 26	2 7
13	5 59	6 1	2 12	4 13	0 37	0 22	0 19	2 50	1 18
19	6 1	5 59	2 11	3 54	0 38	0 21	0 15	3 6	0 15
25	6 1	5 59	2 11	3 35	0 39	0 20	0 12	3 14	2 10
M D	☉'s longitude		☽'s long.	☾'s latitude	♄'s long.	♅'s long.	♆'s long.	♇'s long.	♈'s long.
F	9 22	24	7 ^m 47	5 13	10 24	28 41	13 25	25 51	28 29
2	10 23	20	21 6	5 21	10 3	28 34	14 6	26 35	29 50
3	11 24	17	3 ^X 59	4 37	10 1	28 26	14 47	27 20	1 ^V 9
4	12 25	14	16 29	3 59	10 0	28 19	15 27	28 5	2 26
5	13 26	13	28 41	3 11	9 58	28 11	16 8	28 51	3 41
6	14 27	11	10 ^V 39	2 15	9 57	28 3	16 48	29 38	4 53
7	15 28	11	22 30	1 14	9 55	27 55	17 29	0 ^m 26	6 1
F	16 29	11	4 8 16	0 11	9 53	27 47	18 10	1 15	7 6
9	17 30	12	16 4	0 53	9 51	27 39	18 51	2 5	8 7
10	18 31	13	27 55	1 55	9 49	27 31	19 32	2 56	9 5
11	19 32	15	9 ^{II} 53	2 52	9 47	27 23	20 13	3 48	9 57
12	20 33	17	21 59	3 42	9 45	27 15	20 54	4 40	10 42
13	21 34	21	4 ^{III} 16	4 23	9 42	27 7	21 35	5 33	11 21
14	22 35	25	16 43	4 51	9 40	26 59	22 16	6 27	11 52
F	23 36	30	29 21	5 6	9 37	26 51	22 57	7 22	12 14
16	24 37	36	12 21	5 5	9 35	26 43	23 38	8 17	12 26
17	25 38	42	25 14	4 49	9 32	26 35	24 20	9 13	12 ^R 28
18	26 39	50	8 ^{IV} 30	4 18	9 29	26 27	25 10	9 12	12 19
19	27 40	58	22 2	3 31	9 26	26 18	25 42	11 6	11 59
20	28 42	7	5 ^V 40	2 32	9 23	26 10	26 23	12 3	11 27
21	29 43	17	19 54	1 22	9 20	26 2	27 5	13 10	43
F	30 44	28	4 ^{III} 14	0 5	9 17	25 54	27 46	14 0	48
23	1 45	39	18 49	1 12	9 13	25 46	28 28	14 59	44
24	2 46	51	3 ^I 35	2 26	9 10	25 38	29 9	15 59	32
25	3 48	3	18 24	3 30	9 6	25 30	29 51	16 59	13
26	4 49	16	3 ^V 10	4 19	9 3	25 22	0 ^f 33	17 59	4 49
27	5 50	28	17 44	4 51	8 59	25 14	1 14	19 0	3 28
28	6 51	41	1 ^m 59	5 4	8 56	25 6	1 56	20 1	2 10
F	7 52	54	15 50	4 58	8 52	24 58	2 37	21 3	0 57
30	8 54	7	29 14	4 36	8 49	24 50	3 19	22 5	19 49
31	9 55	19	12 ^X 11	4 0	8 45	24 42	4 0	23 7	28 47
M D	♄'s rises	♅'s rises	♆'s rises	♇'s sets	♄'s declin.	♅'s declin.	♆'s declin.	♇'s declin.	♈'s declin.
1	5 ^a 7	5 ^m 32	3 46	4 ^a 56	18 19	23 4	15 8	29 8	14 25 8 51
7	4 39	5 30	3 43	5 18	22 23	4 16	43 9	21 25	27
13	4 10	5 27	3 44	5 12	18 26	23 4	17 53	10 43	24 17
19	3 39	5 23	3 47	4 59	18 31	23 4	18 58	12 14	22 41
25	3 7	5 19	3 53	4 18	18 38	23 3	19 57	13 49	21 10

32 The Georgian or New Planet. White.

Dates		Heliocentric		Geocentric		Declin. South.	
Months	Days	longitude	atitude	longitude	latitude		
		o	'	o	'	o	'
January	I	19	40	22	36	3	39
	II	19	48	22	31	3	42
	2I	19	56	22	20	3	46
February	I	20	4	22	2	3	54
	II	20	12	21	42	4	2
	2I	20	20	21	19	4	11
March	I	20	26	20	59	4	19
	II	20	34	20	30	4	30
	2I	20	42	20	6	4	40
April	I	20	51	19	39	4	50
	II	20	58	19	17	4	59
	2I	21	6	18	58	5	6
May	I	21	14	18	43	5	12
	II	21	22	18	33	5	15
	2I	21	30	18	28	5	17
June	I	21	38	18	28	5	10
	II	21	46	18	34	5	14
	2I	21	54	18	45	5	9
July	I	22	2	19	2	5	2
	II	22	10	19	23	4	54
	2I	22	18	19	48	4	43
August	I	22	26	20	20	4	30
	II	22	34	20	52	4	18
	2I	22	42	21	27	4	3
September	I	22	50	22	7	3	47
	II	22	58	22	45	3	32
	2I	23	6	23	23	3	17
October	I	23	14	24	1	3	3
	II	23	22	24	37	2	48
	2I	23	30	25	12	2	34
November	I	23	38	25	47	2	21
	II	23	46	26	15	2	10
	2I	23	54	26	40	2	1
December	I	24	2	26	59	1	53
	II	24	10	27	14	1	47
	2I	24	17	27	23	1	44

Time of High-Water at LONDON in the morning and afternoon of every day in the year.

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

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

Time of High-Water at LONDON in the morning and afternoon of every day in the year.

M. Days	MAY				JUNE				JULY				AUGUST				Mo. Days
	morn.		aftern.		morn.		aftern.		morn.		aftern.		morn.		aftern.		
	h	m	h	m	h	m	h	m	h	m	h	m	h	m	h	m	
1	11	54			0	15	0	38	0	23	0	54	1	59	2	28	1
2	0	10	0	39	1	3	1	27	1	22	1	50	2	49	3	8	2
3	1	0	1	21	1	52	2	17	2	17	2	44	3	25	3	42	3
4	1	42	2	3	2	39	3	6	3	4	3	23	3	58	4	13	4
5	2	24	2	44	3	1	3	35	3	40	3	57	4	32	4	51	5
6	3	0	3	10	3	52	4	10	4	15	4	34	5	11	5	30	6
7	3	32	3	48	4	32	4	53	4	53	5	12	5	54	6	19	7
8	4	6	4	23	5	14	5	35	5	34	5	55	6	56	7	14	8
9	4	44	5	6	6	0	6	26	6	19	6	44	7	47	8	22	9
10	5	20	5	57	6	52	7	18	7	11	7	38	7	0	9	39	10
11	6	20	6	49	7	47	8	16	8	10	8	42	10	18	10	56	11
12	7	18	7	49	8	48	9	21	9	18	9	55	11	34			12
13	8	22	8	54	9	54	10	28	10	31	11	7	0	11	0	41	13
14	9	28	10	2	11	1	11	35	11	44			1	11	1	39	14
15	10	34	11	6				0	0	21	0	54	2	6	2	28	15
16	11	38			0	4	1	12	1	20	1	53	2	50	3	6	16
17	0	10	0	30	1	42	2	12	2	25	2	47	3	21	3	34	17
18	1	7	1	36	2	42	3	4	3	8	3	25	3	47	4	0	18
19	2	5	2	31	3	24	3	42	3	41	3	55	4	12	4	27	19
20	2	57	3	17	4	0	4	20	4	0	4	25	4	43	4	58	20
21	3	37	3	57	4	40	4	59	4	44	5	0	5	14	5	32	21
22	4	16	4	38	5	17	5	37	5	15	5	32	5	51	6	14	22
23	5	2	5	25	5	57	6	18	5	50	6	10	6	37	7	3	23
24	5	48	6	14	6	40	7	2	6	31	6	52	7	29	8	124	24
25	6	40	7	4	7	22	7	47	7	14	7	40	8	34	9	11	25
26	7	29	7	56	8	12	8	37	8	6	8	35	9	48	10	24	26
27	8	23	8	50	9	4	9	31	9	5	9	38	10	59	11	35	27
28	9	18	9	44	9	59	10	27	10	12	10	40		0	11	28	28
29	10	9	10	34	10	56	11	26	11	20	11	54	0	42	1	13	29
30	10	59	11	25	11	57					0	28	1	41	2	5	30
31	11	52							0	59	1	20	2	31	2	53	31

	Adding	h	m
For Fowey, Loo and Plymouth	— — — —	—	3 10
Dartmouth, Harborough and Hull	— — — —	—	3 30
Torbay and Tinmouth	— — — —	—	3 40
Exmouth, Topsham and Lyme	— — — —	—	3 50
Bristol and Weymouth	— — — —	—	4 20
Bridgewater and Texel	— — — —	—	4 40
Portland and Martlew	— — — —	—	5 50

Time of High-Water at LONDON in the morning and afternoon of every day in the year.

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

Subtracting

h m

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

the Eclipses of Jupiter's

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

The eclipses of Jupiter's Satellites are not visible this Month, and the next, Jupiter being too near the Sun.

first Satellite for the Year 1799.

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

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

Suppose on the 29th Day of September of this Year, the Time of the Immersion of Jupiter's first Satellite be observed (by a Telescope) in an unknown Meridian, to happen at 22 h. 4 min. 32 sec.; I find by the Table, that the Time of this Immersion will happen at the British Observatory, at 20 h. 16 min. 12 sec. the same day: The Difference of the Times is 1 hour 48 min. 20 sec. which being converted into Degrees and Minutes of the Equator, will make 27 deg. 5 min. the Longitude of the Place of Observation, to the East, because the Time is more than that at the British Observatory.

N. B. Those marked with an Asterisk are visible at Greenwich.

Speculum Phænomenorum

JANUARY		FEBRUARY		MARCH	
1	♁ stationary	1	♃ in ♁	4	♁ (♁ ♀ 19h.
5	♁ (♁ ♀ 12h.	2	♁ (♁ ♀ 4h.	7	♁ (♁ ♀ 12h.
6	♁ (♁ ♀ 11h.	4	♁ elong. max.	8	♁ in apoge
10	♃ stationary	5	♁ (♁ ♀ 3h.	10	♁ ⊙ ♃ 14h.
10	♁ ⊙ ♁ 20h.	5	□ ⊙ ♃ 21h.	11	♁ (♁ ♃ 15h.
12	♁ ⊙ ♁ 7h	9	♁ in apoge	11	♁ (♁ ♃ 22h.
12	♁ in apoge	11	♁ (♁ ♂ oh.	16	♁ (♁ ♃ 4h.
13	♁ (♁ ♂ 4h.	12	♁ (♁ ♃ 1h.	20	♁ in ♃ 2h. 17m.
15	♁ (♁ ♃ 14h. occul.	16	♁ (♁ ♃ 20h.	21	♃ stationary
19	♁ in ♃ 1h. 8m.	18	♁ in ♃ 1h. 56m.	21	♁ ⊙ ♁ 2h.
20	♁ (♁ ♃ 13h.	21	♁ in perige	21	♁ in perige
22	♁ stationary	28	♃ in ♁		
23	♀ in apbelion				
24	♁ in perige				
APRIL		MAY		JUNE	
5	♁ in apoge	1	♁ in apoge	1	♁ (♁ ♂ oh.
6	♁ (♁ ♂ 7h.	4	♁ (♁ ♂ 20h.	2	♁ (♁ ♃ 21h.
7	♁ (♁ ♀ oh.	4	♀ in ♁	3	♁ elong. max.
8	♁ (♁ ♃ 8h.	6	♁ (♁ ♃ 2h.	5	♁ (♁ ♂ 22h.
8	□ ⊙ ♃ 22h.	6	♃ in ♁	6	♁ (♁ ♀ 8h.
9	♁ (♁ ♂ 14h.	7	♁ (♁ ♀ 6h.	6	♁ (♁ ♃ 9h.
12	♁ (♁ ♃ 13h.	7	♁ ♀ transit ♁	9	□ ⊙ ♃ oh.
14	♁ in ♁	8	♁ (♁ ♂ 8h.	14	♁ in perige
16	♁ elong. max.	9	♁ (♁ ♃ 22h.	20	♁ in perihelion
19	♁ in ♁ 14h. 56m.	11	♁ in ♁	20	♁ in perihelion
19	♁ in perige	17	♁ in perige	21	♁ in ♁ oh. 3m.
26	♁ stationary	20	♁ in ♁ 15h. 25m.	26	♁ in apoge
		20	♁ stationary	30	♁ (♁ ♃ 16h.
		26	♃ stationary		
		28	♁ in ♁		
		29	♁ in apoge		
		30	♁ ⊙ ♃ 1h.		

ad Annum 1799.

JULY		AUGUST		SEPTEMBER	
2	♂ ☾ ☿ 11h.	2	♂ ☾ ♂ 4h.	1	☾ in perige
3	♂ ☾ ☽ 20h.	3	♂ ☾ ☿ ch.	2	♂ ☾ ♀ 13h.
4	♂ ☉ ☿ 9h.	4	♂ ☾ ♀ 13h.	10	♂ ☉ ☿ 6h.
4	♂ ☾ ☽ 13h.	5	☾ in perige	15	♂ ☉ ♂ oh.
6	♂ ☾ ☽ ♀ 2h.	8	♀ elong. max.	15	♂ ☉ ☽ 11h.
10	♂ in aphelion	14	☿ elong. max.	17	☾ in apoge
11	☾ in perige	20	☾ in apoge	20	☿ stationary
22	♂ ☽ ♀ 5h.	22	☉ in ♀ 17h. 17m.	21	♂ ☾ ♄ 22h.
22	☉ in ♀ 10h. 53m.	25	♂ ☾ ♄ 7h.	22	☉ in ♀ 13h. 49m.
24	☾ in apoge	27	☿ stationary	23	☐ ☉ ♄ oh.
28	♂ ☾ ♄ 14h.	28	♂ ☾ ☽ 3h.	24	♂ ☾ ☽ 18h.
31	♂ ☾ ☽ 11h.	30	♂ ☾ ☽ 20h.	26	♀ stationary
		31	♂ ☾ ☿ 17h.	26	☿ elong. max.
				27	♂ ☾ ☿ 12h.
				28	♂ ☾ ☽ 12h.
				29	☾ in perige
				30	♂ ☾ ♀ 12h.
OCTOBER		NOVEMBER		DECEMBER	
14	☾ in apoge	1	☐ ☉ ♀ 17h.	8	☾ in apoge
15	♂ ☉ ♀ 19h.	1	☿ in ☽	9	☿ elong. max.
19	♂ ☾ ♄ 7h.	6	♀ stationary	12	♂ ☾ ♄ 10h.
19	♄ stationary	10	☾ in apoge	15	♂ ☾ ☽ 19h.
22	♂ ☾ ☽ 7h.	15	♂ ☾ ♄ 11h.	17	☿ stationary
22	☉ in ♀ 21h. 51m.	18	♂ ☾ ☽ 15h.	17	♂ ☉ ☽ 19h.
25	♂ ☉ ☽ 1h.	21	☉ in ♀ 18h. 9m.	18	☐ ☉ ☽ 16h.
27	♂ ☾ ♀ 3h.	21	♂ stationary	21	☉ in ♀ 6h. 33m.
27	♂ ☾ ☽ 6h.	21	☿ in aphelion	22	♂ ☾ ♀ 17h.
28	♂ ☾ ☿ 9h.	23	♂ ☾ ♀ 16h. occul.	23	♂ ☾ ☽ 17h.
28	☉ eclipsed invis.	25	♂ ☾ ♂ oh.	24	☾ in perige
28	☾ in perige	25	☾ in perige	25	♂ in ☽
		25	♂ ☾ ☿ oh.	26	♂ ☉ ☽ oh.
		27	♂ ☾ ♀ 23h.	26	♂ ☾ ☽ 2h.
				28	♀ elong. max.

A Table of the Sun's semi-diurnal Arches, or Times

The Sun's Declination North.

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

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

Left

of his visible half Duration above the Horizon.

The Sun's Declination South.

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

Left-hand Column, under the Word Degrees; then look for 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 Duration 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

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	24	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

of his visible half Duration above the Horizon.

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 Deg. 7 Min. North, and the Sun's Declination 23 Deg. 28 Min. likewise North. By these you will find by the Table, that 5 Min. for the Sun's Declination, and 1 Min. for the Latitude of the Place, are both, to be added to 8 Hours 49 Min. the Time belonging to 57 Deg. of Latitude and 23 Deg. 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 Sun's Right-Ascension in Time, the greatest

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

The time of the southing or meridian transits of the fixed stars in pa. 46, may be found thus. On the noon of the day, preceding the night in which you want to know the time of the southing of any of those stars, find the Sun's place in the Ephemeris, and with it take out of the above table his right ascension in time; this you may do by inspection to a minute, which will be sufficient for your present purpose: Then from the right-ascension of the star in pa. 46, 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 2 or 3 minutes at most, which may be near enough for ordinary uses. But when great exactness is required, reduce the Sun's place to this estimate time, and with it find in the above table his right ascension to seconds, which being subtracted from that of the star, the remainder will be

Obliquity of the Ecliptic being $23^{\circ} 28'$.

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

the true time of the star's culminating or southing. And if from the time of the star's southing you subtract the semidiurnal arc belonging to it, the remainder will be the time of the star's rising; and being added to it, the sum will be the time of its setting.

Annexed is an Ex. of SIRIUS for

Jan. 31, 1799.

☉'s place at noon	♋ 11° 43'	h m s
Rt. Asc. of Sirius	- -	6 35 58
☉'s rt. asc. subtract	- -	20 50 43
*'s estimate southing	7	9 39 15
☉'s rt. asc. at that time sub.	- -	20 58 22
*'s true southing	- -	9 37 36
Semid. arc sub. & add	- -	4 36 55
*'s rising altern.	- -	5 0 41
*'s setting	- -	14 14 31

A Table of the mean Right-Ascensions in time, Semidurnal-Arcs, Declinations, and Magnitudes of 40 remarkable fixed Stars, with their Names, and Bayer's Literal Characters, for January 1, 1790.

Names of the Stars	Ch.	Rt. Asc.			Declination			Semid. Ar.			Ma
		h	m	s	°	'	"	h	m	s	
Pole star, Alruccabah -	α	0	48	57	88	11	34	n	sets not	2	
Andromeda's girdle, Mirach -	β	0	57	48	34	29	47	n	10 7 32	2	
Andromeda's left foot, Almach	γ	1	51	10	41	18	41	n	sets not	2	
Ram's following horn -	α	1	55	18	22	27	43	n	8 9 35	2	
Whale's jaw, Menkar -	α	2	51	19	3	15	11	n	6 19 48	2	
Medusa's head, Algol - -	β	2	54	32	40	7	41	n	sets not	2	
Perseus's right side, Algenib	α	3	9	26	49	7	6	n	sets not	2	
Brightest of the 7 stars -	η	3	35	2	23	26	22	n	8 16 40	3	
Bull's fourth eye, Aldebaran	α	4	23	51	16	4	19	n	7 28 51	1	
Auriga's left shoulder, Capella	α	5	1	11	45	46	57	n	sets not	1	
Orion's left foot, Rigel -	β	5	4	27	8	27	38	s	5 20 28	1	
Bull's north horn -	β	5	12	57	28	25	12	n	8 57 1	2	
Orion's left shoulder, Bellatrix	γ	5	13	54	6	8	50	n	6 34 41	2	
Orion's girdle -	ϵ	5	25	32	1	21	22	s	5 56 42	2	
Orion's right shoulder, Betelgeuse	α	5	43	46	7	21	2	n	6 40 58	1	
In the great Dog's mouth, Sirius	α	6	35	58	16	25	8	s	4 36 55	1	
Head of the 1st Twin, Castor	α	7	21	11	32	19	57	n	9 38 21	1	
In the less Dog's thigh, Procyon	α	7	28	21	5	46	33	n	6 32 50	1	
Head of the 2d Twin, Pollux	β	7	32	30	28	31	19	n	8 58 13	2	
Hydra's heart, Alphard -	α	9	17	15	7	45	30	s	5 24 20	2	
Lyon's heart, Regulus -	α	9	57	11	12	58	43	n	7 11 28	1	
Great Bear, Lower Pointer	β	10	49	4	57	30	19	n	sets not	2	
Great Bear, Upper Pointer -	α	10	50	39	62	53	25	n	sets not	2	
Lion's tail, Deneb -	β	11	38	24	15	44	22	n	7 27 18	2	
Great Bear, 1st in the tail, Aliath	ϵ	12	45	5	57	7	0	n	sets not	2	
Virgius's spike -	α	13	14	10	10	3	38	s	5 12 20	1	
Dragon's tail -	α	13	58	42	65	20	53	n	sets not	2	
Bootes, Arcturus -	α	14	6	11	20	20	20	n	7 55 26	1	
Libra, Southern Scale - -	α	14	39	22	15	9	30	s	4 44 23	2	
Libra, Northern Scale - -	β	15	5	47	8	36	4	s	5 19 57	2	
Bright star in the North Crown	α	15	25	49	27	25	35	n	8 48 36	2	
Scorpion's heart, Antares	α	16	16	35	25	56	54	s	3 34 46	1	
Hercules's head, Ras. Algethi	α	17	5	7	14	38	4	n	7 20 41	2	
Head of Serpentarius -	α	17	25	8	12	43	20	n	7 9 50	2	
Dragon's head, Rastaben -	γ	17	51	51	51	31	28	n	sets not	2	
Bright star in the Harp, Lyra	α	18	29	45	38	35	39	n	sets not	1	
Bright star in the Eagle, Atair	α	19	40	25	8	18	55	n	6 45 57	2	
Mouth of south Fish, Fomalhaut	α	22	45	53	30	43	12	s	2 52 6	1	
Pegasus's wing, Markab -	α	22	54	15	14	4	11	n	7 17 10	2	
Andromeda's head -	α	23	57	20	27	55	38	n	8 52 19	2	

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; exactly rectified to the beginning of the year 1790.

Con.	Cha.	Long.	Lat.	Magn.	Con.	Cha.	Long.	Lat.	Magn.
		° ' "	° ' "				° ' "	° ' "	
κ	δ	11 13 11	2 9 44 n	4	ϒ	α	12 9 29	0 21 48 n	2
		14 36 25	1 5 37 n	4			18 4 37	1 49 14 s	3
		16 56 25	0 13 11 s	4			22 12 9	4 24 41 n	3
γ	δ	17 54 44	1 48 7 n	4			24 26 33	4 2 52 n	4
ϛ	η	27 3 44	4 1 36 n	3			24 49 47	0 1 1 n	4
		2 52 0	5 45 30 s	3			26 56 12	3 29 24 n	4
		5 31 37	2 35 37 s	3			27 32 46	0 6 53 n	4
		6 51 20	5 29 2 s	1			29 38 28	1 57 17 s	3
		19 38 37	5 21 59 n	2			0 0 35	5 26 15 s	3
		21 51 15	2 13 29 s	3			0 15 33	1 2 18 n	2
π	σ	0 30 37	0 55 4 s	4			1 42 50	1 39 52 n	4
		2 22 2	0 50 34 s	3			4 52 13	4 0 23 s	4
		5 10 20	6 46 12 s	2			6 49 58	4 32 17 s	1
		7 0 30	2 2 28 n	3			8 31 42	6 5 21 s	4
		15 35 29	0 12 19 s	3			28 20 3	6 56 48 s	3
		20 19 34	6 40 4 n	1			0 16 58	2 22 24 n	4
ϖ	γ	4 36 51	3 10 22 n	4			3 23 31	2 5 31 s	4
		5 47 9	0 4 13 n	4			7 14 47	3 55 22 s	3
Ω	ξ	18 43 23	3 1 57 s	4			9 27 17	3 24 55 s	3
		21 19 38	3 46 1 s	4			11 54 32	5 2 33 s	3
		24 58 23	4 51 9 n	4			12 3 36	0 53 36 n	4
		26 54 49	0 27 27 n	1			13 19 21	1 28 7 n	4
		3 27 25	0 8 29 n	4			1 6 55	4 36 46 n	3
		18 34 47	0 31 21 s	4			17 16 0	4 57 31 s	4
		22 6 32	3 2 51 s	4			18 50 53	2 32 6 s	4
		24 10 47	0 41 36 n	3			20 36 5	2 33 40 s	3
		0 26 10	5 4 42 n	3			25 47 17	1 3 47 s	4
		1 54 16	1 22 24 n	3			0 19 42	2 43 22 n	4
		7 14 41	2 48 57 n	3			8 38 43	0 22 57 s	4
		20 54 50	2 2 11 s	1			14 12 35	1 2 8 s	4

This table shewing the mean longitudes of 60 stars to the beginning of the year 1790, their mean longitudes for any other time may be found if $50\frac{1}{2}$ seconds be added for each succeeding, and subtracted for each preceding year, and proportionably for a part of a year. Thus, to find the longitude of the first star κ δ, or δ piscium, for Feb. 15, 1792, or 2 years and one eighth after the tabular time; here $2\frac{1}{8}$ times $50\frac{1}{2}$ sec. make $1' 47''$, which being added to the tabular longitude, gives $11^{\circ} 14' 58''$ for the longitude required at the given time.—The latitudes vary not.

The Latitudes and Longitudes of Ninety Places.

	Lat.	Long.		Lat.	Long.
	° /	° /		° /	° /
Alexandria, Egypt	31 11 n	30 17 e	Ispahan	32 25 n	52 55 e
Amsterdam, Hol.	52 23 n	4 52 e	Land's end	50 6 n	5 50 w
Archangel, Ruf.	64 34 n	38 30 e	Leghorn	43 33 n	10 25 e
Athens	37 40 n	23 52 e	Leoftoff	52 38 n	1 54 e
Babelmandel	12 50 n	43 50 e	Liverpool	53 22 n	3 10 w
Batavia	6 12 s	106 45 e	Lima	12 1 s	76 50 w
Bengal	22 0 n	92 45 e	Lisbon	38 42 n	9 4 w
Berlin	52 33 n	13 26 e	Lizard	49 57 n	5 21 w
Bombay Isle	19 42 n	73 3 e	London	51 31 n	0 0
Boston, Amer.	42 25 n	70 37 w	Madras	13 8 n	80 7 e
Breslau	51 3 n	17 13 e	Madrid	40 25 n	3 45 w
Brest	48 23 n	4 30 w	Manilla	14 30 n	120 25 e
Bristol	51 28 n	2 30 w	Marceilles	43 18 n	5 21 e
Buenos Ayres	34 35 s	58 0 w	Mexico	19 54 n	100 5 w
Cadiz	36 31 n	6 7 w	Mississipi, mouth	29 0 n	89 17 w
Calais	50 58 n	1 51 e	Moscow	55 25 n	37 51 e
Cairo, Egypt	30 2 n	31 26 e	Naples	40 51 n	14 19 e
Cambridge	52 13 n	0 4 e	Newcastle	55 0 n	1 18 w
Canaria Islands	28 1 n	15 0 w	Oporto	40 53 n	8 35 w
Canton	23 8 n	113 2 e	Orkney I. northend	59 24 n	3 23 w
Cape of Goodhope	34 29 s	18 23 e	Oxford	51 45 n	1 16 w
Cape Horn	55 59 s	67 26 w	Paris	48 50 n	2 25 e
Carthegena	10 27 n	75 26 w	Pekin	39 55 n	116 22 e
Charles Town Am.	33 22 n	79 50 w	Petersburg	59 56 n	30 19 e
Constantinople	41 0 n	28 53 e	Philadelphia	39 57 n	75 18 w
Copenhagen	55 41 n	12 50 e	Plymouth	50 24 n	4 15 w
Corinth	37 30 n	23 0 e	Port Mahon	39 51 n	3 53 e
Corke	51 54 n	8 30 w	Port Royal, Jam.	17 40 n	76 37 w
Dantzic	54 22 n	18 36 e	Portsmouth	50 48 n	1 1 w
Dover	51 7 n	1 19 e	Prague	50 5 n	14 15 e
Dublin	53 20 n	6 55 w	Quebec	46 55 n	71 12 w
Edinburgh	55 58 n	3 1 w	Rome	41 54 n	12 32 e
Ferro, Isle	27 48 n	18 6 w	Scilly Isles	50 0 n	6 45 w
Finisterre, Cape	42 57 n	9 36 w	Smyrna	38 28 n	27 25 e
Genoa	44 25 n	8 41 e	Stockholm	59 22 n	18 12 e
Gibraltar	36 5 n	4 46 w	Syracuse	37 4 n	15 20 e
Glasgow	55 52 n	4 5 w	Tangier	35 55 n	5 45 w
Goa	15 31 n	73 50 e	Teneriff	28 16 n	16 32 w
Gottingen	51 32 n	9 58 e	Tunis	36 47 n	10 16 e
Greenwich	51 29 n	0 5 e	Turin	45 5 n	7 45 e
H-clujt's Head.	79 55 n	12 0 e	Venice	45 27 n	12 24 e
Halifax, America	44 46 n	63 20 w	Verd, Cape	14 47 n	17 23 w
Havanna	23 12 n	81 11 w	Vienna	48 11 n	16 28 e
Helena, I. St.	15 55 s	5 49 w	Upsal	59 52 n	17 43 e
Jerusalem	31 50 n	35 25 e	Uraniberg	55 54 n	12 52 e

