

Speculum Anni:
OR,
SEASON on the SEASONS,

For the Year of our LORD 1816;

BEING THE

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 DEVRIZES.

With a particular Judgment of the ECLIPSES, &c.

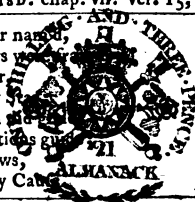
Omnis donatio bona, & omne integrum bonum

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. vii. ver. 15, 19.

The sacred Fiat was no sooner nam'd,
But Heav'n with all its Hosts
Phœbus display'd his fiery Car
And Wisdom marshall'd ev'ry
Sev'n Worlds around the Sun
He gave their Light, and Motions giv'd
By secret, fix'd, attractive Laws,
They all confess th' Almighty Cause



The AUTHOR's Eighty-third Impression.

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M	D	h	m
11	6		
11	7		
12	7		
13	8		
13	8		
14	9		

First Quarter the 7th day, at 7 in the afternoon,
 Full Moon the 14th day, at 1 in the morning.
 Last Quarter the 21st day, at 4 in the afternoon.
 New Moon the 29th day, at 9 in the morning.

M	W	Remarkable	O	D Lon-	D rises	♂	♀	♀	Mut. Aspects
D	D	Days, &c.	h	gitude.	& sets.	h	m	h	and Weather.
1	M	Circumcision.	10	1 ^m 22	5 a 37	28	23	4	
2	T		11	13 28	6 43	28	25	5	* 2 ♀
3	W		12	25 27	7 50	29	26	7	The year be-
4	T		13	7 ^h 20	8 58	29	27	9	gins with a
5	F		14	19 11	10 6	30	28	10	cold frosty
6	S	Ep. O. Chr. 12 d.	15	1 ^h 5	11 13	8	29	12	air.
7	G	Saf. Ep. Pr. C.W.	13	4	morn.	0	30	13	
8	M	Lucian. Plow	17	25 15	0 21	1	1	15	
9	T	[Mond.	18	7 41	1 30	1	2	17	Cloudy with
10	W		19	20 28	2 42	2	3	18	cold rain or
11	T		20	3 ^h 38	3 57	2	4	20	fleet.
12	F		21	17 15	5 14	3	5	22	
13	S	Hil. Ca. T. b.	22	1 ^h 17	6 28	3	7	23	Thick foggy
14	G	Saf. Ep. Ox.	23	15 43	rises	4	8	25	weather.
15	M	[T. beg.	24	0 ^h 27	4 a 36	4	9	27	
16	T		25	15 23	6 1	5	10	28	
17	W		26	0 ^h 21	7 27	5	11	29	Cold winds
18	T	Q. Ch. b. d. k. Pris.	27	15 14	8 52	6	12	2	* 2 ♀ W
19	F		28	29 52	0 16	6	13	3	with snow or
20	S	Fabian.	29	14 ^h 12	11 38	7	14	5	
21	G	Saf. Ep. Agnes.	28	11	morn.	7	16	7	□ ♂ ♀
22	M	Vincent.	1	11 ^h 48	0 57	7	17	9	fleet.
23	T	Term begins.	2	25 5	2 15	8	18	10	
24	W		3	8 ^h 4	3 31	8	19	12	8 2 ♂
25	T	Con. St. Paul	4	20 49	4 43	9	20	14	6 2 ♀
26	F		6	3 ^h 20	5 48	9	21	16	
27	S	D. of Suff. b.	7	15 42	6 44	10	23	17	Cloudy with
28	G	4 S. after Epi.	8	27 55	7 29	11	24	19	sharp frosts.
29	M		9	10 ^h 0	sets	11	25	21	□ ○ 2
30	T	K. Cha. I. mar.	10	22 0	5 a 30	12	26	22	
31	W		11	3 ^h 55	6 39	12	27	24	

Once more I venture, tho' I fear in vain,
 T' invoke my gentle Muse's aid again.
 In youth I might not long her absence mourn,
 But hardly now expect her kind return.
 Since she, the poet's best and chief support,
 With all her train to youthful bards resort.

M	Grises	h	sets	OBSERVATIONS.
D	m	h	m	
1	8	5	3	Having finished my Historical and Philosophical Account of the Barometer, or Weather-Glass, I shall now proceed to give some sketches of Geography and History, by way of improving the minds of young people.
2	8	5	3	
3	8	4	3	
4	8	3	3	
5	8	3	3	
6	8	2	3	<i>Courteous Reader,</i>
G	8	1	3	
8	8	0	4	As the mind of youth, like an uncultivated soil, requires improvement, in order for its production of genuine and useful knowledge and the growth of future genius, it is necessary to furnish it with short plans of Geography and History, as soon as the mental faculties are fit to receive those important impressions. These early and useful ideas not only divert the minds of youth from the idle habits and vicious practices to which they are naturally prone, and addicted to learn from one another by ill example, but carry them forward in the proper pursuits of solid learning and real happiness. In order to which, their introduction to Geography and History (especially Natural History) is most conducive to give the minds of youth a solid turn or propensity, for their lasting advantage, instead of filling their heads with the principles of corruption, or whatever tends to destroy the mind's future improvement: And such are absurd and romantic tales, related by the
9	7	5	9	
10	7	5	8	
11	7	5	7	
12	7	5	6	
13	7	5	5	
G	7	5	4	
15	7	5	3	
16	7	5	2	
17	7	5	1	
18	7	4	9	
19	7	4	8	
20	7	4	7	
G	7	4	5	
22	7	4	4	
23	7	4	2	
24	7	4	1	
25	7	4	0	
26	7	3	8	
27	7	3	7	
G	7	3	5	
29	7	3	3	
30	7	3	2	
31	7	3	0	

First Quarter the 6th day, at 1 in the afternoon.
 Full Moon the 13th day, at 12 at noon.
 Last Quarter the 20th day, at 4 in the morning.
 New Moon the 28th day, at 4 in the morning.

M	D	h	m
1	14	9	
6	15	10	
11	16	10	
16	16	10	
21	17	10	
26	17	10	

M	W	Remarkable	☉	☽	Longi-	☽	rises	☽	☾	☾	Mut. Aspects
D	D	Days, &c.	☾	☾	titude.	& sets.	☾	☾	☾	☾	and Weather.
1	T		12	15	X 47	37 a 47	13	28	26		Frosty with
2	F	Pur. Cand. d.	13	27	38	8 53	13	29	28		
3	S	Blase	14	9	Y 31	9 59	14	19	29		☐ ☉ ☿; ☐ ☉ ☿
4	G	S. after Epi.	15	21	29	11 7	14	2	X		☉ ☉ ☿
5	M	Agatha.	16	3	8 36	morn.	15	3	2		☐ ☿ ☿
6	T		17	15	57	0 17	15	4	4		snow or cold
7	W		18	28	37	1 30	16	5	5		rain now
8	T		19	11	II 40	2 44	16	7	6		about.
9	F		20	25	9	3 58	17	8	8		* ☿ ☿
10	S		21	9	☐ 8	5 7	17	9	9		
11	G	Septuagesima	22	23	36	6 7	18	10	10		* ☿ ☿; Δ ☿ ☿
12	M	Term ends.	23	8	Ω 29	6 56	18	11	11		
13	T		24	23	39	rises	19	12	11		Cold winds,
14	W	Val. O. Cand.	25	8	☿ 58	6 a 21	20	14	12		driving rain
15	T		26	24	12	7 48	20	15	13		or sleet.
16	F		27	9	☐ 12	9 8	21	16	13		
17	S		28	23	50	10 37	21	17	R		
18	G	Saxagesima S.	29	8	☿ 1	11 59	22	18	13		More tempe-
19	M		X	21	44	morn.	22	20	13		rate weather
20	T		1	5	☿ 0	1 19	23	21	12		now about.
21	W		2	17	54	2 34	23	22	12		
22	T		3	0	☿ 28	3 43	24	23	11		
23	F	Camb. T. div. m.	4	12	48	4 42	25	24	10		Δ ☿ ☿
24	S	3. Mar. D. Camb.	5	24	57	5 29	25	26	9		Cold winds,
25	G	Shrove Sund.	6	6	☐ 59	6 6	26	27	8		
26	M		7	18	55	6 37	26	28	7		☉ ☉ ☿
27	T	Shrove Tues.	8	0	X 49	7 0	27	29	6		North or ,
28	W	Ash Wednes.	9	12	41	sets	27	☐	5		north-east.
29	T		10	24	33	6 a 43	28	2	4		Δ ☉ ☿

Man is the universe, in little shewn,
 The scatter'd beauties here are join'd in one;
 In him the several motions are explain'd,
 And the great world is in the less contain'd,
 For as th' Almighty's throne is fix'd on high,
 Far from these lower spheres, and arched sky.

M	☉ rises		☉ sets		OBSERVATIONS.
	D	h m	h m		
1	7	29	4	31	old women and ignorant friends and acquaintance they are daily bred among; also poisonous books and novels, put into their hands to read, for their daily amusement, by those who are no judges of, and never had a proper education.
2	7	27	4	33	
3	7	25	4	35	
G 7	23	4	37		
5	7	22	4	38	
6	7	20	4	40	As an instance of the great ignorance and error that have prevailed in all former ages, and are not yet totally extinct from among us in the present age, you will find that great numbers of grown-up persons have not the least notion or idea that our dwelling-place is a globe of earth and water, which is inhabited by Antipodes, or persons walking or standing with their feet opposite to ours, at the distance of our globe's diameter. As in most Roman Catholic countries the people are not only taught, but are commanded, to believe (on the peril of a severe punishment, and being put in a horrid Inquisition) that the sun moves round the earth, and not the earth round the sun; being a doctrine inconsistent with numerous astronomical experiments and plain observations. And most persons, possessed of what is called a common education, (having learned to read and write,) conceive the earth and sea together, which we now inhabit, to be a very large and long extended plain, to which they know no
7	7	18	4	42	
8	7	16	4	44	
9	7	15	4	45	
10	7	13	4	47	
G 7	11	4	49		
12	7	9	4	51	
13	7	7	4	53	
14	7	5	4	55	
15	7	4	4	56	
16	7	2	4	58	
17	7	0	5	0	
G 6	58	5	2		
19	6	56	5	4	
20	6	54	5	6	
21	6	52	5	8	
22	6	50	5	10	
23	6	48	5	12	
24	6	46	5	14	
G 6	44	5	16		
26	6	42	5	18	
27	6	41	5	19	
28	6	39	5	21	
29	6	37	5	23	

M	h	4
D	m	m
1	18	10
6	18	10
11	19	10
16	19	9
21	20	9
26	20	9

First Quarter the 7th day, at 5 in the morning.
 Full Moon the 13th day, at 10 in the evening.
 Last Quarter the 20th day, at 6 in the afternoon.
 New Moon the 28th day, at 9 in the evening.

M	W	Remarkable	☉	☽ Lon-	☽ rises	♂	♀	☿	Mut. Aspects
D	D	Days, &c.	×	gitude.	& sets.	8	8	×	and Weather.
1	F	David	11	6 26	7 a 52	29	3	3	The weather pretty fine
2	S	Chad	12	18 22	9 0	29	4	2	
3	F	1 S. in Lent	13	0 8 23	10 9	30	5	1	
4	M		14	12 32	11 20	11	6	1	
5	T		15	24 53	morn.	1	8	1	at the beginning.
6	W	Ember Week	16	7 11 29	0 32	1	9	29	
7	T	Perpetua	17	20 25	1 45	2	10	29	☐ 4 ♀
8	F		18	3 45	2 56	3	11	29	
9	S		19	17 33	3 59	3	12	29	Cloudy with unsettled weather.
10	F	2 S. in Lent	20	1 2 50	4 51	4	14	29	
11	M		21	16 34	5 32	4	15	29	
12	T	Gregory	22	1 40	6 3	5	16	29	Some cold
13	W		23	16 59	rises.	5	17	29	
14	T		24	2 20	6 a 48	6	18	29	
15	F		25	17 30	8 14	7	20	29	6 h ♀
16	S		26	2 m 21	9 41	7	21	29	
17	F	3 S. in Lent. Patrick	27	16 45	11 6	8	22	30	rain about this time.
18	M	Edw. K. of W. Sax.	28	0 4 39	morn.	8	23	×	
19	T		29	14 3	0 26	9	24	1	Fair and windy with small frosts.
20	W		30	27 1	1 40	9	26	2	
21	T	Benedict	1	9 36	2 43	10	28	2	
22	F		2	21 53	3 36	11	28	3	
23	S		3	3 58	4 18	11	29	4	
24	F	Midlent Sun.	4	15 55	4 48	12	×	5	
25	M	Lady Day	5	27 47	5 14	12	2	6	Δ 4 ☿
26	T		6	9 38	5 34	13	3	7	
27	W		7	21 29	5 50	14	4	8	Cold winds and unsettled weather.
28	F		8	3 43	sets	14	5	9	
29	F		9	15 22	6 a 59	15	6	10	
30	S		10	27 23	8 7	15	8	11	Δ h ♀
31	F	5 S. in Lent	11	9 8 35	9 19	16	9	13	

The God of light sends down his streaming rays
 On the warm'd earth, and cheers with smiling days,
 And thus the central heart the source contains
 Of vital heat, and in its cavern strains
 The bubbling streams that stretch the swelling veins. }

M	☉ rises		☉ sets		OBSERVATIONS.
	D	h m	D	h m	
	1	6 35	5 25		bounds: And some have asserted, that
	2	6 33	5 27		they have washed their hands in the
F	6	31	5 29		clouds there gathered together.
	4	6 29	5 31		Others have maintained that Admiral
	5	6 27	5 33		Drake shot the gulph (supposed by them
	6	6 25	5 35		to be a vast whirlpool of collected waters,
	7	6 23	5 37		running like water through a funnel into
	8	6 21	5 39		a bottle, to the part of the globe opposite
	9	6 19	5 41		to the place where his ship had arrived)
F	6	17	5 43		quite into the opposite world (making an
	11	6 15	5 45		upper and lower plane of our earth), and
	12	6 13	5 47		founded a trumpet when he was got under
	13	6 11	5 49		London Bridge: so ignorant, confused,
	14	6 9	5 51		and absurd, were and are the ideas of
	15	6 7	5 53		most men concerning the nature of our
	16	6 5	5 55		earth and sea.
F	6	3	5 57		To remove all which erroneous and
	18	6 1	5 59		childish conceptions, our account of geo-
	19	5 59	6 1		graphy, in the constituent parts of our
	20	5 57	6 3		globe, is intended; and first, an account
	21	5 55	6 5		of the celebrated Captain Cook's voyage
	22	5 53	6 7		round the world, in his majesty's service,
	23	5 51	6 9		in the Endeavour, and the places he
F	5	49	6 11		touched at, and discoveries he made, is
	25	5 47	6 13		offered for the satisfaction and improve-
	26	5 45	6 15		ment of our youth, and of all our other
	27	5 43	6 17		readers.
	28	5 41	6 19		A VOYAGE, failed on discovery,
	29	5 39	6 21		round the world, through the Atlantic
	30	5 37	6 23		Western Ocean, South-Seas, and the
F	5	35	6 25		Eastern Ocean, still sailing westerly, in

M	h	m
D	h	m
1	21	8
6	21	8
11	22	7
16	22	6
21	23	6
26	23	5

First Quarter the 5th day, at 4 in the afternoon.

Full Moon the 12th day, at 7 in the morning.

Last Quarter the 19th day, at 10 in the morning.

New Moon the 27th day, at 2 in the afternoon.

M	W	Remarkable	☉	☽	Longi-	☽	☽	☽	Mut. Aspects
D	D	Days, &c.	☾	☾	titude.	& sets.	☾	☾	and Weather.
1	M		12	21	8 52	10 a 31	17	10 15	
2	T		13	4	11 21	11 44	17	11 16	Windy with
3	W	Rd. bp. Chic.	14	17	2	morn.	18	13 18	☐ ☽ ☽
4	T	St. Ambrose.	15	0	0	0 56	18	14 19	rain.
5	F	Cam. T. ends.	16	13	18	2 0	19	15 20	
6	S	O.L.D. Oxf. T.e.	17	26	58	2 53	20	16 22	
7	F	Palm Sunday	18	11	Ω 2	3 38	20	17 23	Cold easterl
8	M		19	25	30	4 11	21	19 25	winds begin
9	T		19	10	18	4 38	21	20 26	to blow.
10	W		20	25	21	5 0	22	21 28	Δ 4 ☽
11	T	Maun. Thur.	21	10	29	5 20	23	22 29	* ☉ ☽
12	F	Good Friday	22	25	32	rises	23	23 30	☐ ☽ ☽
13	S		23	10	20	8 a 53	24	25 3	
14	F	Easter Day	24	24	46	10 9	24	26 4	* ☉ ☽
15	M	Easter Mond.	25	8	46	11 28	25	27 6	More fine for
16	T	Easter Tues.	26	22	17	morn.	26	28 8	the season.
17	W		27	5	22	0 40	26	30 9	
18	T		28	18	2	1 40	27	31 11	
19	F	Alphege	29	0	24	2 25	27	2 13	Fine spring
20	S		8	12	31	3 2	28	3 15	weather.
21	F	Low Sunday	1	24	28	3 27	29	4 17	
22	M		2	6	20	3 49	29	6 18	Serene air,
23	T	St. George.	3	18	11	4 5	30	7 20	
24	W	Ox. & Ca. T. b.	4	0	4	4 21	30	8 22	* ☽ ☽
25	T	St. Mark. Pres.	5	12	3	4 35	1	9 24	8 ☉ 4
26	F	[Mary b.	6	24	8	4 49	2	11 26	with some
27	S		7	6	21	sets	2	12 28	showers of
28	F	2 S. af. Easter	8	18	44	8 a 28	3	13 8	
29	M		9	1	17	9 41	3	14 2	* ☽ ☽
30	T		10	14	2	10 54	4	15 4	8 4 ☽
									rain.

Still it conveys the swift returning blood,
 And restless thus maintains the circling flood,
 The sun, when summer heats the spring succeeds,
 Changes the tarnish'd verdure of the meads;
 The dry'd up rills no longer murm'ring creep
 O'er the smooth pebbles, and invite to sleep.

M	☉ rises	☉ sets	OBSERVATIONS.
D h	m h	m	
1 5	33 6	27	return home, by Captain Cook; Com- mander of the Endeavour; with Mr. Banks, Dr. Solander, attendants, and seamen, on board, in number 96. CAP- TAIN COOK set sail from Plymouth on the 26th of August, 1768, proceeding in his voyage westerly, through the Atlantic, to the South Seas; and then, after his stay there, keeping his course still west- erly, to the East-Indies; meeting, in his passage thither, with many surprising ac- cidents; and he thence set sail, and re- turned to England on the 12th of July, 1771. In the course of this voyage Cap- tain Cook has given sundry instances of his perseverance, personal courage, and diligence, in the discoveries he has made, and of his unshaken intrepidity in the se- veral difficulties and hardships he encoun- tered; wherein the dangers he escaped are, at least, equal to those of any former circumnavigators: so that no person, of a less enterprising genius and disposition, could ever have brought the Endeavour safe back to Old England, after engaging with so many almost insuperable difficul- ties. Yet it was his happy lot (by his steady perseverance in extricating himself from all these difficulties) to arrive with safety and honour at last. His real merit in this his first voyage having recommend-
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	20 6	40	
9 5	18 6	42	
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	46 7	14	
27 4	44 7	16	
F 4	42 7	18	
29 4	40 7	20	
30 4	38 7	22	

First Quarter the 4th day, at 12 at night.
 Full Moon the 11th day, at 4 in the afternoon.
 Last Quarter the 19th day, at 3 in the morning.
 New Moon the 27th day, at 3 in the morning.

D	h	m
1	23	5
6	23	4
11	24	3
16	24	3
21	24	2
26	24	2

M	W	Remarkable	☉	☽ Lon-	☽ rises	♂	♀	☿	Mut. Aspects
D	D	Days, &c.	8	gitude.	& sets.	☾	☿	♄	and Weather.
1	W	St. Phil. & Jas.	11	26 11 59	12 a 0	5	17	6	Δ 4 ♂
2	T	[T. b.	12	10 10 10	morn	5	18	9	Gentle and
3	F	Inv. of the Cross	13	23 36	0 59	6	19	11	pleasant
4	S		14	7 18	1 45	6	20	13	
5	F	3 S. af. Easter	15	21 17	2 20	7	21	15	♂ ☉ ♀
6	M	J. Ev. a. P. L.	16	5 33	2 46	8	23	17	* ♀ ♀
7	T	Ds. of York h.	17	20 2	3 10	8	24	19	
8	W		18	4 41	3 30	9	25	22	weather for
9	T		19	19 24	3 48	9	26	24	☐ ♀ ♀
10	F		20	4 4	4 6	10	28	26	the season.
11	S		21	18 34	rises	11	29	28	
12	F	4 S. af. Easter	22	2 48	9 a 4	11	30	11	* ♀ ♀
13	M	Old May Day	23	16 41	10 24	12	8	2	
14	T		24	0 11	11 32	12	2	4	☐ ☉ ♀; 8 24 ♀
15	W		24	13 17	morn.	13	4	6	Wind and
16	T		25	26 2	0 24	14	5	8	rain about
17	F	Prs. of W. b.	26	8 27	1 3	14	6	10	this time.
18	S		27	20 38	1 33	15	7	12	
19	F	Rogat. S. Q. Ch. b.	28	2 38	1 56	15	9	14	
20	M	[Dunst.	29	14 32	2 15	16	10	16	Rather win-
21	T		11	26 24	2 31	17	11	18	dy and cool,
22	W	Prs. Eliz. h.	1	8 20	2 45	17	12	20	but not bad
23	T	Asc. Holy Th.	2	20 22	2 58	18	13	21	weather.
24	F	Vener. Bede	3	2 34	3 13	19	15	23	
25	S	[Term e.	4	14 57	3 29	19	16	24	Δ ♀ ♀
26	F	S. after Ascen.	5	27 35	3 49	20	17	26	
27	M	[Augus.	6	10 26	sets	20	18	27	Wind and
28	T		7	23 32	9 a 48	21	20	29	rain about
29	W	K. Ch. II. rest.	8	6 53	10 54	22	21	30	this time.
30	T		9	20 26	11 44	22	22	2	Δ 24 ♀; * ♂ ♀
31	F		10	4 11	morn.	23	23	3	

But buzzing insects make an uncouth noise,
 And sulph'rous vapours thunder in the skies;
 So when the heart tumultuous passions move,
 If melting in the softer flames of love,
 With quicker strokes the hasty pulses beat,
 And glowing cheeks confess the inward heat!

M	risef	sets	OBSERVATIONS.	
D	h	m		
1	4	37 7	23	ed him to the Lords of the Admiralty, he was sent round the world a second time in the Resolution; in company with the Adventure, Captain Fourneau, Commander, who returned before him, with the melancholy account of ten of his men unguardedly going on shore, at New Zealand, for greens and fresh provisions, being seized and eaten by the cannibal natives, and their picked bones (the flesh having been taken off to broil or eat raw) were found, by others of the ship's company, scattered on the ground. Mr. Banks and Dr. Solander, two gentlemen of eminent abilities, have greatly contributed to the advancement and honour of the first voyage with Captain Cook in the several discoveries they have made in new plants, shells, and animals, by an augmentation of one thousand different species, before unknown, to those already discovered. But Mr. Sidney Parkinson, their curious and diligent draughtsman, dying on his return from Batavia in January, 1771, was a great check to any farther improvement being made. By the diligence of the said Sidney Parkinson, numerous plants, shells, and animals, were accurately delineated, and portraits given of the different inhabitants and their dresses: who made numerous observations
2	4	35 7	25	
3	4	33 7	27	
4	4	31 7	29	
F	4	30 7	30	
6	4	28 7	32	
7	4	26 7	34	
8	4	25 7	35	
9	4	23 7	37	
10	4	22 7	38	
11	4	20 7	40	
F	4	18 7	42	
13	4	17 7	43	
14	4	15 7	45	
15	4	14 7	46	
16	4	12 7	48	
17	4	11 7	49	
18	4	9 7	51	
F	4	8 7	52	
20	4	7 7	53	
21	4	5 7	55	
22	4	4 7	56	
23	4	3 7	57	
24	4	1 7	59	
25	4	0 8	0	
F	3	59 8	1	
27	3	58 8	2	
28	3	57 8	3	
29	3	56 3	4	
30	3	55 3	5	
31	3	54 8	6	

M	D	☾	☽
1	24	1	
6	24	1	
11	24	1	
16	24	0	
21	24	0	
26	24	0	

First Quarter the 3d day, at 5 in the morning.

Full Moon the 10th day, at 1 in the morning.

Last Quarter the 17th day, at 8 in the evening.

New Moon the 25th day, at 2 in the afternoon.

M	W	Remarkable Days, &c.	☉	☽	Longitude.	D	rises	☿	♀	♂	Mut. Aspects and Weather.
D	D		h	m		& sets.	☾	☿	♀	♂	
1	S	Nicom. Oxf. T. e.	11	18	Ω 7	0 m 24	23	24	4		☐ ♀
2	F	Whit Sunday	12	2	♈ 13	0 52	24	26	5		Windy with
3	M	Whit Mond.	13	6	25	1 16	25	27	6		some showers.
4	T	Wh. T. K. G. 3. b	14	0	♈ 42	1 35	25	28	8		
5	W	Em. W. D. of Cub	15	15	0	1 53	26	29	8		
6	T	[Bonif. Oxf. T. e.]	16	29	18	2 10	26	11	9		
7	F		17	13	♈ 30	2 28	27	2 10			Now more
8	S		17	27	33	2 51	28	3 11			fair and plea-
9	F	Trinity Sun.	18	11	♈ 24	3 16	28	4 12			sant.
10	M		19	24	59	rises	29	5 13			
11	T	St. Barnabas	20	8	♈ 17	10 a 9	30	7 13			
12	W		21	21	16	10 55	Ω	8 14			☐ ♀
13	T	Corpus Chriſt.	22	3	♈ 58	11 30	1	9 14			Gentle bree-
14	F	Trin. T. beg.	23	16	23	11 57	1 10	15			zes of winds,
15	S		24	28	35	morn.	2 11	15			Δ ☉ ♀
16	S	1 S. af. Trin.	25	10	♈ 36	0 16	3 13	15			and perhaps
17	M	St. Alban	26	22	31	0 32	3 14	15			thunder in
18	T		27	4	☿ 25	0 47	4 15	15			some places.
19	W		28	16	21	1 0	4 16	15			
20	T	Tranf. Ed. K. W.	29	28	25	1 14	5 18	R			
21	F	Longest Day [S.]	29	10	♈ 40	1 29	6 19	15			Δ ☉ ♀
22	S		1	23	11	1 46	6 20	15			
23	F	2 S. af. Trin.	2	6	♈ 0	2 9	7 21	15			Warm and
24	M	Nat. J. Bap.	3	19	8	2 38	8 22	14			pleasant
25	T	[Midf. D.]	4	2	♈ 35	sets	8 24	14			Δ ♀
26	W		5	16	20	9 a 34	9 25	14			weather, even
27	T		6	0	Ω 21	10 17	9 26	13			to the end.
28	F		7	14	33	10 50	10 27	13			
29	S	St. Peter	8	28	52	11 14	11 29	12			
30	F	3 S. af. Trin.	8	13	♈ 13	11 35	11 30	11			Δ ♀

Or if fierce rage provoke, and vengeful ire,
 The eyes then sparkle with unusual fire;
 Ah! soon the flames their rapid fury spread,
 And colour all with malignant red;
 Curses and oaths th' unthinking wretch repeats,
 And the tongue falters in half utter'd threats.

M D	rises		sets		OBSERVATIONS.
	h	m	h	m	
1	3	53	8	7	and drawings, respecting the islands, coun-
F	3	52	8	8	tries, and coasts, where the Endeavour
3	3	51	8	9	passed in her voyage. Mr. Sidney Park-
4	3	50	8	10	inson also collected, by his diligence day
5	3	49	8	11	and night, vocabularies of the languages
6	3	49	8	11	spoken in the Island of Otaheite and is-
7	3	48	8	12	lands adjoining; also of New-Zealand, a
8	3	47	8	13	large remote island, extending from the
F	3	47	8	13	North to the South Cape, between latitude
10	3	46	8	14	34 and 48 degrees south, and from Cape
11	3	46	8	14	East to Cape West, from longitude 181
12	3	45	8	15	to 194 degrees; also vocabularies for
13	3	45	8	15	New-Holland, the Island of Savoo, Bata-
14	3	44	8	16	via, (a Dutch city and settlement in the
15	3	44	8	16	East-Indies,) in the voyage round the
F	3	44	8	16	globe, the language of which is called
17	3	43	8	17	Low-Malay; Anjanga, on the Coast of
18	3	43	8	17	Malabar, in the East-Indies, called at Ba-
19	3	43	8	17	tavia the High-Malay; the language of
20	3	43	8	17	the natives of the Island of Sumatra in
21	3	43	8	17	the East-Indies; of the natives of Ceram,
22	3	43	8	17	an island there, and (sailing still round)
F	3	43	8	17	the language spoken by the people of the
24	3	43	8	17	large Island of Madagascar; the ship con-
25	3	43	8	17	tinuing her course still westerly, that by
26	3	44	8	16	the natives of the River Gambia in Africa,
27	3	44	8	16	after passing the Cape of Good Hope, a
28	3	44	8	16	Dutch settlement.
29	3	45	8	15	From the time of the Endeavour's de-
F	3	45	8	15	parture from England to the South Seas,
					passing Cape Horn, westerly, the natives

M	h	u
D	m	m
1	23	0
6	23	0
11	23	1
16	23	1
21	22	1
26	22	1

First Quarter the 3d day, at 9 in the morning.

Full Moon the 9th day, at 12 at noon.

Last Quarter the 17th day, at 1 in the afternoon.

New Moon the 24th day, at 11 at night.

First Quarter the 31st day, at 2 in the afternoon.

M	W	Remarkable	☉	☽ Lon-	☽ rises	♂	♀	☿	Mut. Aspects
D	D	Days, &c.	☿	gitude.	& sets.	♂	♀	☿	and Weather.
1	M		9	27 12 33	11 a 54	12	1	11	
2	T	V. of V. M. Ox.	A.	Cam. Co.	morn.	12	2	10	♂ ☉ ♀
3	W	Term e. D. D. b.	11	25 54	0 11 13	4	10		Some fruitful
4	T	Trans. St. Martin	12	9 11 52	0 29 14	5	9		showers now
5	F	Cam. Ter. e.	13	23 40	0 49 14	6	8		about.
6	S	Ox. T. e. O. Mid.	14	7 16	1 10 15	7	8		
7	F	4 S. af. Trin.	15	20 41	1 42 16	8	7		
8	M	[T. a Bec.	16	3 54	2 21 16	10	7		
9	T		17	16 53	rises	17	11	7	Hot and dry
10	W		18	29 38	9 a 26	17	12	6	weather a few
11	T		19	12 11	9 52 18	13	6		days.
12	F		20	24 30	10 15 19	15	6		
13	S		21	6 39	10 31 19	16	D		
14	F	5 S. af. Trin.	22	18 39	10 48 20	17	6		
15	M	Swithin	23	0 33	11 2 21	18	6		
16	T		24	12 25	11 15 21	19	6		Rain about
17	W		25	24 20	11 29 22	21	7		this time.
18	T		26	6 23	11 46 22	22	7	♂ ♀ ♂	
19	F		27	18 38	morn.	23	23	8	if not some
20	S	Margaret	28	1 10	0 7 24	24	8		thunder-
21	F	6 S. af. Trin.	29	14 4	0 32 24	26	9		storms.
22	M	Magdalen	29	27 21	1 6 25	27	10		
23	T		☿	11 3	1 52 26	28	11		
24	W		1	25 9	sets	26	29	12	☐ ☉ ☿
25	T	St. James	2	9 34	8 a 46	27	☿	13	Fair and hot
26	F		3	24 13	9 14 27	2	14		☐ ☿ ♀
27	S	St. Anne	4	8 59	9 38 28	3	15		for some days
28	F	7 S. af. Trin.	5	23 43	9 57 29	4	16		
29	M		6	8 18	10 14 29	5	18		
30	T		7	22 40	10 31 30	7	19		
31	W		8	6 46	10 51 31	8	21		

How like the earth mix'd with the watry mass,
 Where troubled seas the slimy land embrace,
 Are man's less nobler parts, th' inferiour drain,
 When forc'd the cruder sediments remain;
 Here stagnate filth, and acid worthless lees,
 And noisome heaps from various foods increase.

M	☉ rises	☉ sets
D	h. m	h. m

OBSERVATIONS.

1	3	45	8	15	and country of Terra del Fuego occur; then the island and natives of Otaheite in the South Seas; an observation of the transit of Venus there; the different risings and fallings of the thermometer during the ship's stay at Otaheite and the neighbouring islands; the plants, medical and culinary; the warlike and domestic instruments next occurring. Also views of the headlands, appearances and nature of the rocky coast, country, and savage inhabitants, of New-Zealand, still more westerly; their chiefs, warriors, and war-canoes; picturesque views of the coast, singular head-dresses of the natives, military weapons, household implements, and personal ornaments; also a curious map of the coast of the large Island of New-Zealand. Then the natives and natural produce of New-Holland, still more westerly, and the natives of Savoo, and inhabitants of New-Guinea, their customs, and persons trading thence to Batavia; the Endeavour's passage from thence to the Cape of Good Hope, and (still sailing more westerly) to her arrival in the English Channel, from whence she first set out. All which voyage, being a continual sailing on a course still westerly, from the beginning to the end thereof, is an infallible proof that the earth and sea are of a round
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	52	8	8	
11	3	53	8	7	
12	3	53	8	7	
13	3	54	8	6	
F	3	55	8	5	
15	3	57	8	3	
16	3	58	8	2	
17	3	59	8	1	
18	4	0	8	0	
19	4	1	7	59	
20	4	2	7	58	
F	4	4	7	56	
22	4	5	7	55	
23	4	6	7	54	
24	4	7	7	53	
25	4	9	7	51	
26	4	10	7	50	
27	4	12	7	48	
F	4	13	7	47	
29	4	15	7	45	
30	4	16	7	44	
31	4	18	7	42	

M	b	24
D	≡	m
1	22	2
6	21	3
11	21	3
16	21	4
21	20	4
26	20	5

Full Moon the 8th day, at 1 in the morning.
 Last Quarter the 16th day, at 5 in the morning.
 New Moon the 23d day, at 7 in the morning.
 First Quarter the 29th day, at 10 at night.

M	W	Remarkable	☉	☽ Lon-	☽ rises	♂	♀	♂	Mut. Aspects
D	D	Days, &c.	Ω	gitude.	& sets.	☿	♊	♋	and Weather.
1	T	Lammas day	9	20m 34	11 a 18	1	9	23	
2	F		10	4 f 7	11 41	2	10	25	* 24 ♂
3	S		11	17 24	morn.	2	12	26	Fine weather
4	F	8 S. af. Trin.	12	0 h 27	0 17	3	13	28	at the begin-
5	M		13	13 18	1 4	4	14	30	ning.
6	T	Transfigurat.	14	25 58	2 3	4	15	Ω	☐ 24 ♀
7	W	Name of Jesus	15	8 ≡ 27	3 9	5	17	3	
8	T		16	20 47	rises	6	18	5	Ruffling
9	F		17	2 X 57	8 a 38	6	19	7	winds now
10	S	St. Lawr. [D.d.e.	18	15 0	8 54	7	20	9	about.
11	F	10 S. af. Trin.	19	26 56	9 8	8	22	12	8 h ♀
12	M	Pr. Wales b.	20	8 r 48	9 22	8	23	14	
13	T	Old Lam. d.	21	20 38	9 37	9	24	16	More cool,
14	W		21	2 8 31	9 52	9	25	18	with flying
15	T	Assumption	22	14 32	10 10	10	27	20	8 h ♀
16	F	D. of York b.	23	26 44	10 32	11	28	22	showers.
17	S		24	9 II 13	11 1	11	29	24	
18	F	10 S. af. Trin.	25	22 5	11 40	12	☿	26	♂ ☉ ♀
19	M		26	5 ≡ 23	morn.	13	1	28	
20	T		27	19 9	0 35	13	3	30	More dry and
21	W	D. of Clar. b.	28	3 Ω 24	1 46	14	4	☿	* 24 ♀
22	T		29	18 4	3 6	14	5	3	* 24 ♀
23	F		☿	3 ☿ 2	fets	15	6	5	fine for the
24	S	St. Bartholo.	1	18 9	8 a 4	16	8	7	♂ ♀ ♀
25	F	11 S. af. Trin.	2	3 ≡ 15	8 22	16	9	9	harvest.
26	M		3	18 10	8 40	17	10	11	
27	T		4	2 m 47	8 59	18	11	13	Some flying
28	W	St. Augustine	5	17 1	9 21	18	13	15	* ☉ 24
29	T	J. Bp. behead.	6	0 f 51	9 49	19	14	16	showers.
30	F		7	14 19	10 23	20	15	18	
31	S		8	27 27	11 5	20	16	20	♂ ♂ ♀

Hence windy fumes, and sudden vapours spread,
 That swell the breast, and rack the aching head;
 'Till forc'd by stronger nature to retreat,
 They melting fall, and all dissolve in sweat!
 Dispers'd in watery drops they pain no more,
 But work insensible thro' every pore!

M D	☉ rises		☉ sets		OBSERVATIONS.
	h	m	h	m	
1	4	19	7	41	or globular figure; of which our forefa-
2	4	21	7	39	thers had no notion or idea.
3	4	22	7	38	In the course of this voyage, Captain
F 4	4	24	7	36	Cook's prudence and firmness appear in
5	4	26	7	34	many remarkable instances; and in none
6	4	27	7	33	more than in his rescuing the Endeavour,
7	4	29	7	31	and the lives of all the ship's company,
8	4	31	7	29	from destruction, after she had struck
9	4	32	7	28	upon a rock on the dangerous coast of
10	4	34	7	26	New-Zealand, when a square piece of that
F 4	4	36	7	24	coral rock lodged in her planks, which,
12	4	37	7	23	with pumping, and stopping the leak by
13	4	39	7	21	the artifice of Captain Cook, was the
14	4	41	7	19	chief means of the ship's preservation.
15	4	43	7	17	This piece of rock was afterwards taken
16	4	45	7	15	out from the place of the ship's leak, when
17	4	46	7	14	she was, by care, got into a rivulet, or
F 4	4	48	7	12	channel, to lie on her side upon the bank
19	4	50	7	10	at low water, and then laid on her other
20	4	52	7	8	side, on the contrary bank, so as to make
21	4	54	7	6	her again, by repairing, completely fit for
22	4	55	7	5	the sea; all which shews that no difficulty
23	4	57	7	3	to Captain Cook, and his brave people,
24	4	59	7	1	was insuperable, in the power of human
F 5	5	16		59	prudence and resolution to accomplish.
26	5	36		57	And, had not this commander treated the
27	5	56		55	savage natives as he did and directed, by
28	5	76		53	firing upon them and destroying many, (a
29	5	96		51	cruel necessity!) they might have proved
30	5	106		50	a dangerous enemy to the ship and com-
31	5	126		48	pany, with so many canoes, filled with in-

Full Moon the 6th day, at 4 in the afternoon.
 Last Quarter the 14th day, at 8 in the evening.
 New Moon the 21st day, at 3 in the afternoon.
 First Quarter the 28th day, at 8 in the morning.

M	W	Remarkable	☉	D Lon-	D rises	♂	♀	♀	Mut. Aspects
D	D	Days, &c.	☾	gitude.	& sets.	☾	☾	☾	and Weather.
1	F	12 S. af. Tr. Giles	9	10 17	12 a 0	21	18	22	
2	M	Lond. burnt, 1666	10	22 53	morn.	22	19	23	Rather windy
3	T		11	5 18	1	5	22	25	and flying
4	W		12	17 33	2	14	23	27	showers about
5	T		13	29 41	3	26	23	28	
6	F		14	11 43	rises	24	24	30	♂ ♂ ♀ the
7	S	Enurchus	15	23 39	7 a 22	25	25	2	full moon.
8	F	13 S. af. Trin.	16	5 32	7 36	25	26	3	
9	M	[Nat. of Vir. M.]	17	17 22	7 50	26	27	5	
10	T		18	29 12	8 5	27	29	6	Fine now
11	W		19	11 8 6	8 22	27	30	8	about for the
12	T		20	23 5	8 41	28	2	9	latter harvest.
13	F		21	5 16	9 7	29	2	11	
14	S	Holy Cross	21	17 42	9 42	29	4	12	
15	F	14 S. af. Trin.	22	0 29	10 29	30	5	14	Now expect
16	M		23	13 42	11 29	2	6	15	some gentle
17	T	Lambert	24	27 23	morn.	1	7	16	
18	W	Ember Week	25	11 34	0 44	2	9	18	Δ h ♀
19	T		26	26 13	2 9	3	10	19	showers.
20	F		27	11 15	3 37	3	11	20	
21	S	St. Matthew	28	26 31	sets	4	12	22	
22	F	15 S. af. Trin.	29	11 49	6 a 53	4	14	23	Windy and
23	M	[K. G. lil. cro]	2	26 59	7 12	5	15	24	dry now
24	T		1	11 51	7 33	6	16	26	about.
25	W		2	26 19	7 58	6	17	27	
26	T	Cyprian. Old	3	10 19	8 28	7	19	28	Δ h ♀
27	F	[Holy R.]	4	23 52	9 10	8	20	29	
28	S		5	7 0	10 1	8	21	31	Some rain at
29	F	16 S. af. Tr. St. Mic.	6	11 11	5 9	9	22	2	this time.
30	M	St. Jerome	7	2 17	morn.	10	24	3	

And as the sun by his own heat exhales
 Clouds from the sea, and fogs from marshy vales;
 Which (tho' base born) ambitious higher move,
 Prevent the light, and hide the worlds above:
 So from corporeal dregs the mists condense,
 And intercept the messengers of sense.

M	☉ rises	☉ sets	OBSERVATIONS.
D	h m	h m	
F 5	14 6	46	habitants, ready to board him on several
2 5	16 6	44	occasions.
3 5	18 6	42	And, probably, the Adventure's men,
4 5	20 6	40	who went on shore so unguardedly at New-
5 5	22 6	38	Zealand, would not have met with the
6 5	24 6	36	fate they did, had they taken the same
7 5	26 6	34	wise precautions, with fire-arms, for their
F 5	28 6	32	preservation, on their going on shore, as
9 5	30 6	30	the Endeavour's men always did. In New-
10 5	32 6	28	Zealand, and other islands of the South
11 5	34 6	26	Seas, there are found very few quadrupeds
12 5	36 6	24	either for use or food, from which and
13 5	37 6	23	the ignorance and savage disposition, in
14 5	39 6	21	living upon one another, and on such
F 5	41 6	19	strangers as they can seize as enemies, is
16 5	43 6	17	assigned. And the same reason is given
17 5	45 6	15	(besides what the savage custom war-
18 5	47 6	13	rants) for those inhabitants residing in the
19 5	49 6	11	remote parts of Chili, or Peru, in Ame-
20 5	51 6	9	rica, and in the interior of Ethiopia, in
21 5	53 6	7	Africa, for devouring each other, like
F 5	55 6	5	fishes in the waters, and animals of prey in
23 5	57 6	3	the forests, to satisfy the calls of hunger.
24 5	59 6	1	See Captain Cook's Voyages.
25 6	1 5	59	AN INTRODUCTION TO GEOGRAPHY. <i>Om-</i>
26 6	3 5	57	
27 6	5 5	55	<i>nia mutantur, et nos mutamur.</i>
28 6	7 5	53	<i>Courteous Reader,</i>
F 6	9 5	51	
30 6	11 5	49	In the scheme of universal creation, by
			the infinitely-wise Architect, this terraque-

M	h	u
D	m	m
1	18	12
6	18	13
11	18	14
16	17	15
21	17	16
26	17	17

Full Moon the 6th day, at 9 in the morning.
 Last Quarter the 14th day, at 9 in the morning.
 New Moon the 20th day, at 12 at night.
 First Quarter the 27th day, at 11 at night.

M	W	Remarkable	☉	☽ Lon-	☽ rises	♂	♀	☿	Mut. Aspects
D	D	Days, &c.	☿	gitude.	& sets.	☿	☿	☿	and Weather.
1	T	Remigius	8	14 ^m 33	om 14	10	25	4	
2	W		9	26 40	1 24	11	26	5	The weather
3	T		10	8 ^h 39	2 34	12	27	5	is now pretty
4	F		11	20 35	3 45	12	28	6	fine.
5	S		12	2 ^h 27	4 55	13	30	7	
6	F	17 S. af. Trin.	13	14 18	rises	14	m	8	Warm for the
7	M	[Faith	14	26 10	6 a 21	14	2	9	
8	T		15	8 8 4	6 35	15	3	10	♂ ☉ ♂
9	W	St. Denys.	16	20 3	6 53	16	5	10	Season, and
10	T	Ox. & C. T. b.	17	2 ^h 8	7 18	16	6	11	Δ ☉ ♀
11	F	Old Mich. d.	18	14 23	7 49	17	7	11	perhaps
12	S		19	26 52	8 30	18	8	11	Δ ☉ ♂
13	F	18 S. af. Trin.	20	9 ^h 38	9 24	18	10	12	thunder in
14	M	[Tr. K. Ed. C.	21	22 46	10 30	19	11	12	some places.
15	T		22	6 ^h 19	11 49	20	12	R	♂ ♀ ♂
16	W		23	20 18	morn.	20	13	11	
17	T	Etheldred	24	4 ^h 44	1 14	21	15	11	♂ ♀ ♀
18	F	St. Luke	25	19 34	2 41	22	16	11	Wind and
19	S		26	4 ^h 40	4 10	22	17	10	☐ ♀ ♀
20	F	19 S. af. Trin.	27	19 54	sets	23	18	9	rain near this
21	M		28	5 ^h 5	5 a 39	24	20	8	time.
22	T		29	20 2	6 2	24	21	7	
23	W		m	4 ^h 39	6 30	25	22	6	
24	T	[Crisp.	1	18 50	7 8	26	23	5	Cool and
25	F	K. G. III. cr.	2	2 ^h 32	7 58	26	25	4	some wet.
26	S	K. G. III. pro.	3	15 48	8 58	27	26	2	♂ ☉ ♂
27	F	20 S. af. Trin.	4	28 40	10 6	28	27	1	Rather unset-
28	M	St. Sim. & Jude	5	11 ^m 11	11 18	28	28	☿	
29	T		6	23 26	morn.	29	30	29	☐ ♀ ♀; ♂ ♂ ♂
30	W		7	5 ^h 30	0 29	30	1	28	tled at the
31	T		8	17 26	1 40	m	2	27	end.

Hence the clogg'd spirits their confinement mourn,
 And reason waits in vain their swift return.
 The clouded images their match delay,
 'Till the rous'd soul, by a superior ray,
 Breaks thro' the shade, and urges on the day. }

M D	☉ rises		☉ sets		OBSERVATIONS.
	h	m	h	m	
1	6	13	5	47	ous Globe that we inhabit appears to be made subject to accidents, changes, and a dissolution, from floods, subterraneous fires, and earthquakes, (though limited to a long duration, but determined period) like the animals and vegetables upon its surface. The land is a sort of a theatre, or garden-spot; and the sea and rivers are its circulating fluids, for conveying its necessary supplies, through subterraneous and superficial passages. The land and water are also similar to the flesh and blood of animals, or the solid and juicy part of vegetables and fruits, with the liquid supplying the solid parts of each created substance, and its attending properties, from the first formation of every solid and liquid substance together in the original embryo, through its growth to maturity, (or from its first completion) and continuance of duration. In the animal and vegetable bodies, the solid parts thereof (during their existence) are supplied and supported by the circulating fluids and juices. So likewise, during the existence of our terraqueous globe, containing all the animal, vegetable, and mineral beings that we know, there is a continual circulation of vapours throughout the atmosphere, exhaled by the sun, vegetation, and springs of the earth. This
2	6	15	5	45	
3	6	17	5	43	
4	6	19	5	41	
5	6	21	5	39	
F 6	6	23	5	37	
7	6	24	5	36	
8	6	26	5	34	
9	6	28	5	32	
10	6	30	5	30	
11	6	32	5	28	
12	6	34	5	26	
F 6	6	36	5	24	
14	6	38	5	22	
15	6	40	5	20	
16	6	42	5	18	
17	6	44	5	16	
18	6	46	5	14	
19	6	48	5	12	
F 6	6	50	5	10	
21	6	52	5	8	
22	6	53	5	7	
23	6	55	5	5	
24	6	57	5	3	
25	6	59	5	1	
26	7	1	4	59	
F 7	7	3	4	57	
28	7	5	4	55	
29	7	7	4	53	
30	7	8	4	52	
31	7	10	4	50	

M	D	h	m
1	18	18	
6	18	19	
11	18	20	
16	18	21	
21	18	23	
26	18	24	

Full Moon the 5th day, at 3 in the morning.

Last Quarter the 12th day, at 7 in the afternoon.


New Moon the 19th day, at 10 in the morning.

First Quarter the 26th day, at 5 in the afternoon.

M	W	Remarkable	☉	D	Lon-	D	rises	♂	♀	☿	Mut. Aspects
D	D	Days, &c.	m		gitude.	& sets.	m	↑	↓	☿	and Weather.
1	F	All Saints	9	29	X 18	2 m 50	1	3	26		
2	S	D. K. b. All So.	10	11	Y 9	3 57	2	4	26		The weather:
3	F	21 S. af. Trin.	Prs.	So. b.		5 5	2	6	26		is now cloudy
4	M	K. Wm. land.	12	4	8 58	6 13	3	7			D and cold,
5	T	Powder Plot	13	17	0	rises	4	8	26		and perhaps
6	W	Leonard. T. b.	14	29	9	5 a 24	4	9	26		some frosts.
7	T		15	11	II 27	5 52	5	11	27		
8	F	Prs. Aug. So. b.	16	23	55	6 30	6	12	27		
9	S	L. Mayor's d.	17	6	36	7 18	6	13	28		
10	F	22 S. af. Trin.	18	19	31	8 21	7	14	29		Brisk winds
11	M	St. Martin	19	2	43	9 34	8	16	30		with
12	T	Cam. T. di. m.	20	16	14	10 53	9	17	m	☉ ☿; ☿ ☉	
13	W	Britius	21	0	m 5	morn.	9	18	2	* ☿ ♀	
14	T		22	4	15	0 17	10	19	3		Sleet or
15	F	Machutus	23	28	45	1 41	11	21	5		showers.
16	S		24	13	28	3 6	11	22	6		
17	F	23 S. af. Trin.	25	28	21	4 33	12	23	7		
18	M	[Hugh B. Lin.	26	13	m 14	5 57	13	24	9		
19	T		27	28	0	sets	13	26	10		Cold and
20	W	Edm. K. & M.	28	12	33	4 a 57	14	27	11		cloudy for
21	T		29	26	45	5 42	15	28	13		some days.
22	F	Cecilia	1	10	32	6 37	15	29	14		
23	S	Clement: O. M.	1	23	55	7 43	16	30	16		☿ ☿ ☿
24	F	24 S. af. Trin.	2	6	54	8 56	17	2	17		Dark wea-
25	M	Catharine	3	19	30	10 8	17	3	19		☉ ☿ ☿
26	T		4	1	49	11 21	18	4	21		☉ ☿ ☿
27	W		5	13	54	morn.	19	5	22		ther, and
28	T	Term ends	6	25	49	0 31	20	7	24		☿ ☿ ☿
29	F		7	7	41	1 39	20	8	25		cold winds
30	S	St. Andrew	8	19	32	2 46	21	9	27		begin to blow

New passions, new opinions, still excite,
 And what they like at noon, despise at night.
 They gain with labour, what they quit with ease,
 And health, for want of change, becomes disease.
 Ah, hopeless mortal man! Ah, rigid fate!
 What cares attend our short uncertain state!

M D	☉ rises		☉ sets		OBSERVATIONS.
	h	m	h	m	
1	7	12	4	48	is performed, from the highest mountains and hills, to the lowest descents and valleys, where the moist vapours lodge and accumulate, that are required for the use and support of animal and vegetable beings; the overplus of which accumulated vapours returns again, by brooks, rivulets, and rivers, into the sea, administering supplies as they pass, from a sort of chemical or distillatory operation between the sun, the sea, and the atmosphere. The clouds, first formed by exhalation from the sea, contribute their aid in this part of the noble and grand scheme of the universal Creator. This circulation is performed like that of the blood of animals, sent out from the heart, by its pulsation through the aorta, to the extremities of the body, by the arteries, (vessels lying deep, and guarded from injury by the muscles, as are the nervous organs of sensation,) returning again to the heart, by the superficial veins, in the constant round of circulation. So likewise the vapour from the sea, (like the nutritive juices forming the blood,) accumulates in rain and springs, by falling into the chinks and caverns of the earth, and thence, overflowing from the superficial brooks, rivulets, and rivers, that circulate to the extremities of the land, and returns the vapours, taken from
2	7	14	4	46	
F 7	16	4	44		
4	7	17	4	43	
5	7	19	4	41	
6	7	21	+	39	
7	7	23	4	37	
8	7	24	+	36	
9	7	26	+	34	
F 7	28	4	32		
11	7	30	4	31	
12	7	31	4	29	
13	7	33	4	27	
14	7	34	4	26	
15	7	36	4	24	
16	7	37	+	23	
F 7	39	4	21		
18	7	40	4	20	
19	7	42	4	18	
20	7	43	4	17	
21	7	45	4	15	
22	7	46	4	14	
23	7	47	4	13	
F 7	49	4	11		
25	7	50	+	10	
26	7	51	+	9	
27	7	52	4	8	
28	7	53	+	7	
29	7	55	4	5	
30	7	56	4	4	

M	h	u
D		m
1	19	25
6	19	26
11	20	27
16	20	28
21	20	29
26	21	30

Full Moon the 4th day, at 9 in the evening.
 Last Quarter the 12th day, at 4 in the morning.
 New Moon the 18th day, at 11 at night.
 First Quarter the 26th day, at 2 in the afternoon.

M	W	Remarkable	☉	☽	Long-	☽ rises	♂	♀	☿	Mut. Aspects
D	D	Days, &c.	↑	↑	itude.	& sets.	m	h	m	and Weather.
1	F	Advent Sun.	9	18	27	3 m 54	22	10	28	
2	M		10	13	28	5 4	22	12	30	Rather tem-
3	T		11	25	40	6 14	23	13	1	perate wea-
4	W		12	8	II 2	rises	24	14	3	ther at the be-
5	T		13	20	38	4 a 20	24	15	4	ginning.
6	F	Nicholas	14	3	27	5 6	25	16	6	
7	S		15	16	29	6 4	26	18	8	♂ 24 ♂
8	F	2 S. in Adv.	16	29	45	7 15	27	19	9	Fine for the
9	M	[Conception]	17	13	Ω 14	8 33	27	20	11	season.
10	T		18	26	55	9 55	28	21	12	
11	W		19	10	m 48	11 18	29	23	14	* ☉ h
12	T		20	24	52	morn.	29	24	15	
13	F	Lucy	21	9	4	0 40	1	25	17	Cloudy and
14	S		22	23	24	2 3	1	26	19	more cold,
15	F	1 S. in Adv.	23	7	m 49	3 28	1	28	20	* h ♀; * 24 ♀
16	M	♂ Sap. C. T. e.	24	22	14	4 54	2	29	22	
17	T	Oxf. T. ends	26	6	1 35	6 18	3	23	23	and winterly
18	W	Ember Week	27	20	47	sets	4	1	25	weather.
19	T		28	4	45	4 a 10	4	2	26	
20	F	[Sh. d.]	29	18	26	5 12	5	4	28	
21	S	St. Thomas	h	1	47	6 21	6	5	30	♂ ☉ ♀
22	F	4 S. in Adv.	1	14	46	7 36	6	6	h	* ♂ ♀
23	M		2	27	26	8 50	7	7	3	Cold rain or
24	T		3	9	X 47	10 2	8	9	4	sleet near this
25	W	Christmas da.	4	21	54	11 11	9	10	6	time.
26	T	St. Stephen	5	3	Y 51	morn.	9	11	8	
27	F	St. John	6	15	42	0 19	10	12	9	
28	S	Innocents	7	27	33	1 27	11	13	11	Some frosts at
29	F	1 S. af. Christ.	8	9	8 29	2 35	11	15	12	the end.
30	M		9	21	33	3 45	12	16	14	
31	T	Silvester	10	3	II 51	4 57	13	17	16	

How wide a front, how deep and black a rear?
 What sad varieties of grief and fear,
 Draw in array, exert their fatal rage,
 And gall obnoxious life through every stage,
 From infancy to youth, from youth to age.

}

M	rises		sets		OBSERVATIONS.
	D	h m	h	m	
F	7	57	4	3	thence, in water again to the sea. In a
2	7	58	4	2	similar manner of motion every planet and
3	7	59	4	1	attending satellite, in our own system,
4	8	0	4	0	containing diversity of beings; (for, doubt-
5	8	1	3	59	less, all are inhabited by some beings, and
6	8	1	3	59	not made to look at only,) return again
7	8	2	3	58	to the same place of their orbits.
F	8	3	3	57	And so, in other systems and orbits,
9	8	4	3	56	throughout the universe, of infinite space,
10	8	4	3	56	filled with systems of bodies and beings,
11	8	5	3	55	of natures and purposes infinitely various,
12	8	6	3	54	every system obediently gravitates and cir-
13	8	6	3	54	culates, mutually, to its neighbouring sys-
14	8	6	3	54	tem, and every globe, with its attendant
F	8	7	3	53	satellite, to its next and remoter neigh-
16	8	7	3	53	bour, through the whole immensity of cir-
17	8	7	3	53	culating systems of globes, inhabited by
18	8	8	3	52	endless created beings, and each globe
19	8	8	3	52	destined for its particular uses, like the
20	8	8	3	52	Globe we inhabit, each globe performs
21	8	8	3	52	the course of its motion, and returns to
F	8	8	3	52	order, without deviation from the immu-
23	8	8	3	52	table laws stamped upon their natures.
24	8	8	3	52	And yet men are so urged, by their irre-
25	8	8	3	52	gular wills and passions, as to be contin-
26	8	7	3	53	ually quarrelling here about their posses-
27	8	7	3	53	sions, destroying each other about who
28	8	7	3	53	shall have most, although this our little
F	8	6	3	54	Globe contains vastly more than enough
30	8	6	3	54	for all its inhabitants!
31	8	5	3	55	[To be continued.]

[To be continued.]

A TABLE shewing the Moon's Southing for Farmers and others that breed Cattle, but men and others that sail on 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	1 a 37	2 a 24	1 a 45	2 a 42	3 a 20	5 a 3	1
2	2 25	3 4	2 26	3 31	4 17	5 56	2
3	3 10	3 44	3 7	4 23	5 15	6 47	3
4	3 53	4 25	3 51	5 18	6 12	7 37	4
5	4 35	5 7	4 37	6 16	7 7	8 26	5
6	5 15	5 52	5 27	7 15	8 1	9 16	6
7	5 56	6 40	6 21	8 13	8 53	10 8	7
8	6 37	7 33	7 18	9 10	9 44	11 1	8
9	7 21	8 30	8 19	10 5	10 35	11 57	9
10	8 8	9 31	9 20	10 59	11 27	morn	10
11	9 0	10 34	10 19	11 52	morn	0 53	11
12	9 56	11 36	11 17	morn	0 21	1 49	12
13	10 56	morn	morn	0 45	1 17	2 43	13
14	11 58	0 35	0 13	1 39	2 14	3 34	14
15	morn	1 32	1 7	2 34	3 11	4 22	15
16	1 0	2 26	2 0	3 29	4 6	5 6	16
17	2 0	3 17	2 53	4 25	4 58	5 48	17
18	2 56	4 7	3 46	5 20	5 46	6 28	18
19	3 49	4 58	4 40	6 13	6 32	7 8	19
20	4 39	5 49	5 34	7 3	7 15	7 49	20
21	5 28	6 41	6 27	7 50	7 56	8 31	21
22	6 16	7 34	7 20	8 34	8 36	9 17	22
23	7 5	8 26	8 11	9 16	9 17	10 6	23
24	7 55	9 17	8 59	9 57	9 59	10 59	24
25	8 46	10 7	9 45	10 38	10 43	11 55	25
26	9 38	10 54	10 29	11 19	11 30	0 a 54	26
27	10 30	11 39	11 11	0 a 2	0 a 20	1 53	27
28	11 21	0 a 23	11 52	0 47	1 14	2 51	28
29	0 a 10	1 4	0 a 32	1 35	2 11	3 46	29
30	0 57		1 14	2 26	3 9	4 39	30
31	1 41		1 56		4 7		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	5 a 20	6 a 43	8 a 22	9 a 1	9 a 55	9 a 48	1
2	6 18	7 36	9 15	9 47	10 35	10 31	2
3	7 7	8 30	10 6	10 30	11 15	11 17	3
4	7 57	9 25	10 54	11 11	11 57	morn	4
5	8 48	10 20	11 39	11 51	morn	0 6	5
6	9 42	11 13	morn	morn	0 41	0 59	6
7	10 37	morn	0 21	0 31	1 28	1 54	7
8	11 33	0 3	1 2	1 12	2 19	2 50	8
9	morn	0 50	1 43	1 55	3 12	3 46	9
10	0 28	1 34	2 23	2 40	4 7	4 39	10
11	1 20	2 16	3 5	3 28	5 3	5 30	11
12	2 9	2 57	3 48	4 20	5 58	6 20	12
13	2 55	3 37	4 34	5 14	6 51	7 8	13
14	3 38	4 18	5 24	6 10	7 43	7 57	14
15	4 19	5 0	6 17	7 7	8 34	8 47	15
16	4 59	5 45	7 14	8 4	9 24	9 40	16
17	5 39	6 33	8 12	8 59	10 16	10 35	17
18	6 20	7 25	9 12	9 52	11 9	11 34	18
19	7 4	8 21	10 10	10 45	0 a 5	0 a 33	19
20	7 51	9 20	11 6	11 38	1 3	1 31	20
21	8 42	10 21	0 a 0	0 a 32	2 3	2 27	21
22	9 37	11 21	0 54	1 28	3 2	3 19	22
23	10 35	0 a 19	1 48	2 25	3 59	4 6	23
24	11 36	1 14	2 41	3 24	4 52	4 50	24
25	0 a 36	2 7	3 37	4 23	5 40	5 31	25
26	1 34	2 59	4 33	5 20	6 25	6 11	26
27	2 29	3 51	5 30	6 13	7 8	6 50	27
28	3 21	4 43	6 26	7 3	7 48	7 30	28
29	4 14	5 37	7 21	7 50	8 27	8 12	29
30	5 1	6 32	8 13	8 34	9 7	8 56	30
31	5 51	7 27		9 15		9 44	31

28 The Georgian Planet, or Herschel, SEASON.

Month.	Days	Heliocentric longit.	latit.	Geocentric longit.	latit.	Declina- tion.	South- ing.
Jan.	1	7 34	on 4	9 5	on 4	21 5 46	21 42
	11	7 41	o 4	9 37	o 4	21 51	21 7
	21	7 48	o 4	10 5	o 4	21 55	20 20
Feb.	1	7 56	o 4	10 32	o 4	21 59	19 36
	11	8 3	o 4	10 52	o 4	22 2	18 58
	21	8 10	o 4	11 7	o 4	22 4	18 20
Mar.	1	8 17	o 4	11 16	o 4	22 5	17 49
	11	8 24	o 4	11 21	o 4	22 6	17 14
	21	8 31	o 4	11 21	o 4	22 6	16 3
Apr.	1	8 39	o 3	11 15	o 4	22 6	15 53
	11	8 46	o 3	11 4	o 3	22 4	15 16
	21	8 53	o 3	10 49	o 3	22 2	14 38
May	1	9 1	o 3	10 31	o 3	22 0	14 0
	11	9 8	o 3	10 9	o 3	21 56	13 19
	21	9 15	o 3	9 45	o 3	21 54	12 38
June	1	9 23	o 3	9 18	o 3	21 49	11 52
	11	9 30	o 3	8 54	o 3	21 45	11 9
	21	9 37	o 3	8 30	o 3	21 42	10 26
July	1	9 45	o 3	8 9	o 3	21 39	9 43
	11	9 52	o 2	7 51	o 3	21 36	9 1
	21	9 59	o 2	7 36	o 2	21 34	8 19
Aug.	1	10 7	o 2	7 25	o 2	21 32	7 35
	11	10 14	o 2	7 20	o 2	21 31	6 57
	21	10 21	o 2	7 21	o 2	21 31	6 20
Sept.	1	10 29	o 2	7 27	o 2	21 33	5 40
	11	10 36	o 2	7 38	o 2	21 35	5 5
	21	10 43	o 2	7 54	o 2	21 37	4 30
Oct.	1	10 51	o 2	8 14	o 2	21 41	3 55
	11	10 58	o 2	8 39	o 2	21 45	3 21
	21	11 5	o 2	9 6	o 2	21 49	2 45
Nov.	1	11 13	o 1	9 41	o 1	21 54	2 6
	11	11 20	o 1	10 15	o 1	21 59	1 28
	21	11 27	o 1	10 51	o 1	22 5	0 49
Dec.	1	11 34	o 1	11 27	o 1	22 10	0 9
	11	11 41	o 1	12 4	o 1	22 15	23 24
	21	11 48	o 1	12 40	o 1	22 20	22 43
	31	11 56	o 1	13 15	o 1	22 24	22 1

1816. A GENERAL TIDE TABLE. 229

Subtract } Add
H. M. } The Names of PORTS. } H. M.

North	2	Queenborough, Portsmouth, Southampton, Isle of	South	
12	24	Wight, Spits, Dunkirk, Canada, and Kentish Knock.	0	6
N by E	7	Rocheſter, Malden, Aberdeen, and at Red-	S by W	
11	38	land.	0	46
NNE		Graveſend, Downs, Romney, Scilly, Thanet, N.	SSW	
10	51	Cape, before Coquet, and betwixt Calais and Dover.	1	33
NE by N		London, St. Andrew's, St. Lucas, Dundee, Bell-	SW by S	
10	5	Isle, Holy-Iſle, and Liſbon.	2	19
NE		Hartlepool, Tinnmouth, White-bay, Amſterdam,	SW	
9	19	Galcoign, and upon the Weſt of Ireland.	3	6
NE by E		Berwick, Bridlington-bay, Flamborough, Bour-	SW by W	
8	32	deaux, Rochelle, and at Uſhant.	3	52
ENE		Scarborough, Severn, Mounts-bay, and at Kinſale,	WSW	
7	45	and Humber.	4	39
E by N		Newcaſtle, Severn-mouth, Falmouth, Ramſey,	W by S	
6	59	Dartmouth, Lizard, and Guernſey.	5	25
East		Plymouth, Antwerp, Lynn, Hull, St. David's,	W	
6	12	Holm, St. Peter's, Foſſike, and Croſs-Keys Waſhes.	6	12
E by S		Weymouth, Briſtol, Lime, Foulneſs at the Start,	W by N	
5	26	Boſton, Lanton, Sedmouth, and at St. Nicholas.	6	53
ESE		Milford, Bridgewater, Lands-end, Portland, Wa-	WNW	
4	40	terford, and Liſington.	7	45
SE by E		Hague, Peterport, Dublin, Harſeur, St. Magnus,	NW by W	
3	53	Sound, Cambay, and without the Caſkets.	8	31
SE		Pool, St. Helena's, Orkney, Cathneſs, and the Iſle of	NW	
3	7	Man.	9	18
SE by S		Needles, Layſtow, and both the North and South	NW by N	
2	20	Forelands.	10	4
SSE		Yarmouth, Dover, Calais-Road, Harwich, Cowes,	NNW	
1	33	Coaſts of Normandy and Picardy.	10	51
S by E		Rye, Thames, Rhodes, Wincheſtea, Sole-bay,	N by W	
0	47	Goore, and Margaret-Road.	11	37

Note, From 2 Hours before High-Water to 3 Hours after at *Foſſike*, and from 3 Hours before to 3 and a half after at *Croſs-Keys*, it is very dangerous riding the *Waſhes*.

In order to underſtand the Uſe of this Tide Table, obſerve the following Example.

Jan. 22. The Moon is South 16 min. paſt 6 in the Morning; and by the Table it appears, that at *London, St. Andrew's, St. Lucas, Dundee, &c.* the Moon at N E by N, and S W by S, makes High-Water, viz. 10 h. 5 min. before her Southing, and 2 h. 19 min. after: Conſequently at theſe Places the firſt High-water is 11 min. paſt 8 the Night foregoing, and the other 35 min. paſt 8 that morning.

A TABLE of the Rising, Southing, and Setting of the
PLEIADES, or SEVEN STARS, for every 5th 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 a 28 6 0 6 8 22 11 11 m 44 16 11 23 7 37 21 10 52 7 18 26 10 40 6 56		8 a 44 8 22 8 0 7 37 7 18 6 56	5 m 2 4 38 4 16 3 55 3 34 3 12	July { 1 0 m 38 6 0 18 8 34 11 11 a 57 8 13 16 11 37 7 53 21 11 17 7 37 26 10 57 7 13		8 m 54 8 34 8 13 7 53 7 37 7 13	5 m 10 4 30 4 29 4 9 3 49 3 29
February { 1 10 17 6 33 6 9 56 6 12 11 9 36 5 52 16 9 17 5 33 21 8 58 5 14 26 8 39 4 55		6 33 6 12 5 52 5 33 5 14 4 55	2 49 2 38 2 8 1 49 1 30 1 11	August { 1 10 33 6 49 6 10 14 6 30 11 9 53 6 11 16 9 36 5 52 21 9 17 5 33 26 8 59 5 15		6 49 6 30 6 11 5 52 5 33 5 15	3 5 2 46 2 27 2 8 1 49 1 31
March { 1 8 28 4 44 6 8 10 4 26 11 7 52 4 8 16 7 33 3 49 21 7 15 3 31 26 6 57 3 13		4 44 4 26 4 8 3 49 3 31 3 13	1 0 0 42 0 24 0 5 11 a 47 11 29	September { 1 8 37 4 53 6 8 19 4 35 11 8 1 4 17 16 7 43 3 59 21 7 26 3 42 26 7 8 3 24		4 53 4 35 4 17 3 59 3 42 3 24	1 9 0 51 0 33 0 5 11 m 58 11 40
April { 1 6 35 2 51 6 6 17 2 33 11 5 58 2 14 16 5 40 1 56 21 5 21 1 37 26 5 2 1 18		2 51 2 33 2 14 1 56 1 37 1 18	11 7 10 49 10 30 10 2 9 53 9 34	October { 1 6 50 3 6 6 6 32 2 48 11 6 13 2 29 16 5 54 2 10 21 5 36 1 52 26 5 15 1 31		3 6 2 48 2 29 2 10 1 52 1 31	11 22 11 4 10 45 10 26 10 8 9 47
May { 1 4 43 0 59 6 4 24 0 40 11 4 5 0 21 16 3 45 0 1 21 3 28 11 m 42 26 2 56 11 22		0 59 0 40 0 21 0 1 11 m 42 11 22	9 15 8 56 8 37 8 17 7 58 7 38	November { 1 4 54 1 10 6 4 34 0 50 11 4 14 0 30 16 3 53 0 9 21 3 28 11 a 44 26 3 7 11 23		1 10 0 50 0 30 0 9 11 a 44 11 23	9 26 8 6 8 46 8 25 8 0 7 39
June { 1 2 41 10 57 6 2 22 10 37 11 2 1 10 17 16 1 43 9 58 21 1 10 9 38 26 0 59 9 15		10 57 10 37 10 17 9 58 9 38 9 15	7 13 6 53 6 33 6 14 5 51 5 31	December { 1 2 46 11 2 6 2 24 10 40 11 2 2 10 18 16 1 40 9 56 21 1 18 9 34 26 0 56 9 12		11 2 10 40 10 18 9 56 9 34 9 12	7 18 6 56 6 34 6 12 5 50 5 29

The common Notes for this Year.

The Golden Number - - 12	Shrove-Sunday - - Feb. 25
The Epact - - - - 1	Ash Wednesday - - - 28
The Cycle of the Sun - - 5	Easter-Day - - April 14
Dominical Letter - - G F	Whit-Sunday - - June 2
Roman Indiction - - - 4	Advent-Sunday - Dec. 1
Septuagesima Sunday Feb. 11	Sundays after Trinity - - 24

The 12 Signs. The 7 Planets, and the Aspects.

♈ Aries	☉ Sun
♉ Taurus	☾ Moon
♊ Gemini	♄ Saturn
♋ Cancer	♃ Jupiter
♌ Leo	♂ Mars
♍ Virgo	♀ Venus
♎ Libra	☿ Mercury
♏ Scorpio	♊ Conjunction
♐ Sagittarius	* Sextile
♑ Capricorn	□ Square
♒ Aquarius	△ Trine
♓ Pisces	♋ Opposition

The four Quarters of the Year.

	d	h	m	
Spring Quarter begins - - -	March 20	5	9	Aftern.
Summer Quarter begins - - -	June 21	2	45	Aftern.
Autumn Quarter begins - - -	Sept. 23	4	43	Morn.
Winter Quarter begins - - -	Dec. 22	2	27	Morn.

Venus will be a Morning Star till August 1; and then an Evening Star for the rest of the Year.

Jupiter will be a Morning Star till April 25; then an Evening Star till Nov. 12; then a Morning Star for the rest of the Year.

A TABLE of the KINGS and QUEENS of England, from the CONQUEST to the present Year 1816.

<i>Names of Kings.</i>	<i>Born Ann.</i>	<i>When Began to reign</i>	<i>Reign Y. M.</i>	<i>Since their Reign ended</i>	<i>Buried at</i>
William 1	1029	1066, Oct. 14	20 11	729, Septem. 9	Caen, Normand.
William 2	1057	1087, Sept. 9	12 11	716, August 2	Winchester
Henry 1	1068	1100, Aug. 2	35 4	681, Decem. 1	Reading
Stephen	1105	1135, Dec. 1	18 11	662, Octob. 25	Feverham

The Saxon Line Restored.

Henry 2	1133	1154, Oct. 25	34 6	627, July 6	Fontevr.
Richard 1	1156	1189, July 6	9 9	617, April 6	Fontevr.
John	1165	1199, April 6	17 6	500, Octob. 19	Worcester
Henry 3	1207	1216, Oct. 19	56 1	544, Nov. 16	Westminster
Edward 1	1239	1272, Nov. 16	34 8	509, July 7	Westminster
Edward 2	1284	1307, July 7	19 7	489, Jan. 25	Gloucester
Edward 3	1312	1327, Jan. 25	50 5	439, June 21	Westminster
Richard 2	1366	1377, June 21	22 3	417, Sept. 29	Westminster

The Line of Lancaster.

Henry 4	1367	1399, Sept. 29	13 6	403, March 20	Canterbury
Henry 5	1389	1413, Mar. 20	9 5	394, August 31	Westminster
Henry 6	1421	1422, Aug. 31	38 6	355, March 4	Windsor

The Line of York.

Edward 4	1442	1461, Mar. 4	22 1	333, April 9	Windsor
Edward 5	1471	1483, April 9	0 2	333, June 22	Unknown
Richard 3	1442	1483, June 22	2 2	331, August 22	Leicester

The Families United.

Henry 7	1456	1485, Aug. 22	23 8	307, April 22	Westminster
Henry 8	1492	1509, April 22	37 9	269, Jan. 28	Windsor
Edward 6	1537	1547, Jan. 28	6 5	263, July 6	Westminster
Qu. Mary	1516	1553, July 6	5 4	258, Nov. 17	Westminster
Qu. Eliz.	1533	1558, Nov. 17	44 4	213, March 24	Westminster

The Union of the Two Crowns.

James 1	1566	1603, Mar. 24	22 0	191, March 27	Westminster
Charles 1	1600	1625, Mar. 27	23 10	167, Jan. 30	Windsor
Charles 2	1630	1649, Jan. 30	36 0	131, Feb. 6	Westminster
James 2	1633	1685, Feb. 6	4 0	127, Feb. 13	St. Germain
Will. & Mary	1650	1689, Feb. 13	13 1	114, March 8	Westminster

The Union of the Two Kingdoms.

Qu. Anne	1665	1702, Mar. 8	12 5	102, August 1	Westminster
George 1	1660	1714, Aug. 1	12 10	89, June 11	Hanover
George 2	1683	1727, June 11	33 4	56, Oct. 25	Westminster
George 3	1738	1760, Oct. 25		Crowned Sept. 22, 1761.	

ROYAL FAMILIES.

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BIRTH-DAYS of the ROYAL FAMILY.

KING GEORGE III. - - -	14 June, 1738	Duke of Cumberland	5 June, 1777
Q. CHARLOTTE - - -	19 May, 1744	Duke of Suffex - - -	27 Jan. 1778
Prince of Wales - - -	12 Aug. 1762	Duke of Cambridge - -	24 Feb. 1774
Duke of York - - -	16 Aug. 1763	Princess Mary - - -	25 Apr. 1776
Duke of Clarence - - -	21 Aug. 1765	Princess Sophia - - -	3 Nov. 1777
Q. of Wirtemberg - - -	29 Sept. 1766	Princess of Wales - - -	17 May, 1768
Duke of Kent - - -	2 Nov. 1767	Duchess of York - - -	7 May, 1767
Prs. Augusta Sophia - -	8 Nov. 1768	Prs. Charlotte of Wales	7 Jan. 1796
Prs. Elizabeth - - -	22 May, 1770		

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
France, &c. - - -	Louis XVIII. - - -	Nov. 7, 1755	May, 1814
Russia - - - - -	Alexander - - -	Dec. 23, 1777	Mar. 24, 1801
Spain - - - - -	Ferdinand VII. - -		1808
Portugal - - - - -	Mary - - -	Dec. 17, 1734	Feb. 24, 1777
Prussia - - - - -	Frederic Wm. IV. -	Aug. 3, 1770	Nov. 16, 1797
Denmark - - - - -	Frederick VI. - -	Jan. 27, 1768	Mar. 13, 1808
Sweden & Norway -	Charles XIII. - -	Oct. 7, 1748	June 6, 1809
Austria - - - - -	Francis II. - - -	Feb. 12, 1768	Mar. 1, 1792
Pope dom - - - - -	Pius VII. - - -	Aug. 14, 1742	Mar. 14, 1800
Sardinia - - - - -	Victor Emanuel -	July 24, 1759	June 4, 1801
Ottoman Empire - -	Mahmud - - -	July 20, 1785	July 28, 1808

The FULL WEIGHT of the Coins, with the LEAST WEIGHT allowed to pass of the Gold Coin.

	Wt. allowed.	Full Wt.		Full Wt.
	dwt. gr.	dwt. gr.		dwt. gr.
GOLD			SILVER	
Guinea - - - 5	8	5 9 $\frac{1}{2}$	A Crown - - - - -	19 8 $\frac{1}{2}$
Half Guinea - 2	16	2 16 $\frac{1}{2}$	Half Crown - - - -	9 16 $\frac{1}{2}$
Seven Shillings	1 19	1 19 $\frac{1}{2}$	Shilling - - - - -	3 20 $\frac{1}{2}$
			Six Pence - - - - -	1 22 $\frac{1}{2}$

According to the above proportions it appears, that the Value of a $\frac{1}{4}$ of Silver is 62s. or 3l. 2s. and of a $\frac{1}{4}$ of Gold is 44 $\frac{1}{2}$ Guineas, or 46l. 14s. 6d. Also that the oz. of Silver is 5s. 2d. and the oz. of Gold 3l. 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 CATALOGUE of the Most Reverend, Right Reverend, and Reverend, the Archbishops, Bishops and Deans, exercising Ecclesiastical Jurisdiction in England, 1816.

<i>Archbishops.</i>	<i>Deans' Names.</i>	<i>Names of the Sees.</i>
Hon. Dr. C. Mar. Sutton	Dr. Ger. Andrews	Canterbury
Hon. Dr. E. Vernon	Dr. Geo. Markham	York
<i>Bishops.</i>		
Dr. William Howley	Bp. Tomline	London
Hon. Dr. Sh. Barrington	Bp. Cornwallis	Durham
Hon. Dr. Brownl. North	Dr. T. Rennell	Winchester
Hon. Dr. Ja. Cornwallis	Dr. Woodhouse	Litchfield and Coventry
Dr. Richard Watson	J. Probyn, <i>Archd.</i>	Llandaff
Dr. George Tomline	Dr. Gordon	Lincoln
Dr. Rd. Beadon	Bp. Ryder.	Bath and Wells
Dr. F. H. W. Cornwall	Dr. Onslow	Worcester
Dr. John Buckner	Mr. Combe Miller	Chichester
Dr. H. W. Majendie	Mr. J. Warren	Bangor
Dr. G. I. Hensford	Dr. G. Gretton	Hereford
Hon. Dr. G. Pelham	Dr. Garnett	Exeter
Dr. Thomas Burgess		St. David's
Dr. John Fisher	Mr. Talbot	Salisbury
Dr. H. Bathurst	Dr. Joseph Turner	Norwich
Dr. Luzmore	Mr. W. D. Shipley	St. Asaph
Dr. S. Goodenough	Dr. Isaac Milner	Carlisle
Dr. W. Lott Mansel	Dr. Beeke	Bristol
Dr. Walker King	Dr. Busby	Rochester
Dr. B. E. Sparke	Dr. Thomas Pearce	Ely
Dr. W. Jackson	Dr. C. H. Hall	Oxford
Dr. George Law	Mr. Cholmondeley	Chester
Dr. Parsons	Dr. Thomas Kipling	Peterborough
Hon. Dr. Ryder	Dr. Plumtre	Gloucester
Dr. George Murray		Sodor and Man
	Dr. Wm. Vincent	Westminster
	Hon. Dr. E. Legge.	Windfor

The Names of the Learned Judges in the Law.

Right Hon. John Lord Eldon,	Lord High Chancellor of Great Britain.
Right Hon. Sir W. Grant, Knt.	Master of the Rolls.
Sir Tho. Plumer, Knt.	Vice Chancellor.
Sir William Garrow, Knt.	Attorney General.
Sir Samuel Shepherd, Knt.	Solicitor General.

II. In the { Rt. Hon. L. Ellenborough, L. C. J.	Sir John Bayley, Knt.
K. Bench. { Sir Simon Le Blanc, Knt.	Sir H. Dampier, Knt.
III. In the { Sir Vicary Gibbs, Knt. L. C. J.	John Heath, Esq;
Co. Pleas. { Sir Alan Chambers, Knt.	Sir Robert Dallas, Knt.
IV. In the { Sir A. Thompson, Knt. L. C. B.	Sir Rob. Graham, Knt.
Exchequer. { Sir George Wood, Knt.	Sir Rich. Richards, Knt.

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	Tuesd.
In 15 Days of St. Hilary	—	—	27	28	29	Tuesd.
On the Mor. of the Purificat. of B.V.M.	Feb. 3	4	5	6		Tuesd.
In eight Days of the Purificat. of B.V.M.	—	9	10	11	12	Mond

Easter Term begins May 1, ends May 27.

In 15 Days after Easter	—	April 28	29	30	M. 1	Weda.
From Easter in 3 Weeks	—	May 5	6	7	8	Weda.
From Easter in 1 Month	—	12	13	14	15	Weda.
From Easter in 5 Weeks	—	19	20	21	22	Weda.
On the Morrow of the Ascension-Day	24	25	26	27		Mond.

Trinity Term begins June 14, ends July 3.

On the Morrow of the Holy Trinity	June 10	11	12	14		Frid.
In eight Days of the Holy Trinity	16	17	18	19		Wed.
In 15 Days of the Holy Trinity	23	24	25	26		Wed.
From the Day of Holy Trinity in 3 Weeks	30	Jul. 1	2	3		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 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, The first and last Days of every Term are the first and last Days of Appearance.

NEW LIST OF STAMPS.

Commencing September 1, 1815.

RECEIPTS.

£2 0 0 and under	£5 0 0	£0 0 2
5 0 0	10 0 0	0 0 3
10 0 0	20 0 0	0 0 6
20 0 0	50 0 0	0 1 0
50 0 0	100 0 0	0 1 6
100 0 0	200 0 0	0 2 6
200 0 0	300 0 0	0 4 0
300 0 0	500 0 0	0 5 0
500 0 0	1000 0 0	0 7 6
	1000 0 0 or upwards.	0 10 0

In full of all demands, Ten Shillings.

Persons giving a Receipt without Stamp, or upon one of less value, forfeit 10l. if the sum is under 100l. and 20l. if above that sum.

Persons endeavouring to defraud by giving Receipt for less than the Sum received, or by separating it into divers sums, &c. forfeit 10l.

Unstamped Receipts may be stamped, within 14 days, on paying 5l. over the duty; after 14 days, and within a month, 10l.

BILLS OF EXCHANGE, PROMISSORY NOTES, &c.

		Not exc. 2 Mos.	Above 2 Mos.
Amounting to 40s. not exc.	£5 5s.	£0 1 0	£0 1 6
Exceeding	£5 5s.	0 1 6	0 2 0
20	30	0 2 0	0 2 6
30	50	0 2 6	0 3 6
50	100	0 3 6	0 4 6
100	200	0 4 6	0 5 0
200	300	0 5 0	0 6 0
300	500	0 6 0	0 8 6
500	1000	0 8 6	0 12 6
1000	2000	0 12 6	0 15 0
2000	3000	0 15 0	1 5 0
3000 and upwards		1 5 0	1 10 0

Bankers' Checks, Bills, &c. not duly stamped, are void in law, unless the drawer be within ten miles of the banker's residence, the place specified, and is be dated on or before the day it is negotiated.

PROMISSORY NOTES.

For any Sum not exceeding £1 1s.	£0 0 5
Exceeding £1 1s. and not exceeding £2 2s.	0 0 10
2 2	5 5
5 5	10 0
10 0	20 0
20 0	30 0
30 0	50 0
50 0	100 0

May be re-issued after Payment as often as thought fit.

Speculum Anni :

O.R.

SEASON ON THE SEASONS.

For the YEAR of our LORD, 1816.

THE SECOND PART.

Of the ECLIPSES of this present Year 1816.

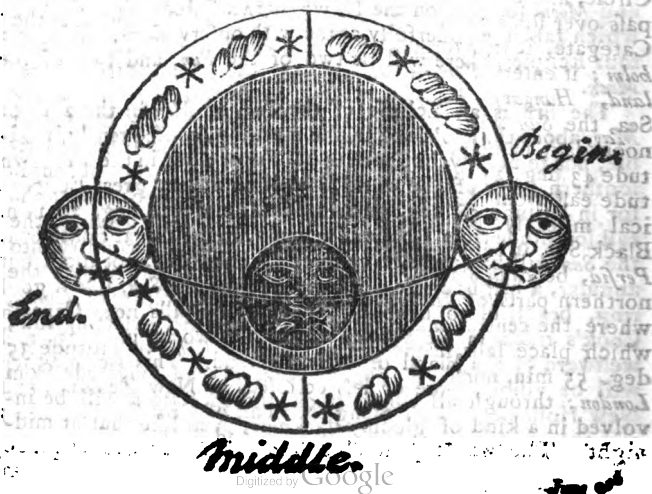
IN the course of this year, there will be four Eclipses, and they will happen in the following order, as they were computed by Mr. Andrews, from very correct tables of the *Sun* and *Moon*, founded on the NEWTONIAN system of gravitation; which tables wonderfully agree with observations. Of these four Eclipses, there will be two of the *Sun*, and two of the *Moon*.

The first is an Eclipse of the *Sun*, on *Monday* the 27th of *May*, about three o'clock in the morning, consequently invisible, not to us only, but even to all *Europe*; but in the unknown southern parts of the world, it will be a very great Eclipse; for in latitude 58 deg. 52 min. south, and 138 deg. 26 min. east longitude from London, namely, in the Great South Sea, the *Sun* will be centrally eclipsed at noon-day, not total, but annular, a bright circle will appear round the *Sun*, like a gold ring, beautiful to behold. This place falls near Captain Cook's track in his voyage round the world in 1775, and westward of the Island of New Zealand. This Eclipse then will be visible, more or less eclipsed, at New Zealand, and New Holland, and all along the coast of New South Wales; and therefore visible at Botany Bay, and Port Jackson.

The

The second is a total Eclipse of the *Moon*, on Trinity Sunday, and Trinity Monday, the 9th and 10th of *June*, and if the air prove clear and fine, may be seen by us in this kingdom, and not by us only, but also by the inhabitants of all the states and kingdoms in *Europe* and *Africa*, together with the western parts of *Asia*, and the eastern parts of *America*; but in *Siam*, *China*, and *Chinese Tartary*, &c. in the eastern parts of *Asia*, the fore-part only will be visible, the *Moon* setting with them before the Eclipse be over. It will be all visible in *South America*; but the *Moon* rises eclipsed in *North America* as appears by considering her position, in respect of those parts of the earth, during the time of the Eclipse; for at the beginning the *Moon* will be vertical, or right over-head at midnight, under 23 deg. 8 min. of south latitude, and 6 deg. 22 min. east from London. At the time of the middle, the *Moon* is vertical under 25 deg. 15 min. of south latitude, and 18 deg. 49 min. west longitude from London. At the end of the Eclipse the *Moon* will be vertical under 23 deg. 28 min. south, in longitude 44 deg. 15 min. west from London. All which falls in the great South Sea.

With us in Great Britain, it may be expected nearly to correspond with the following Type and Calculation.



Middle.

	London.	York.	Edinburgh.	Past
June 9th apparent time.	H. M. S.	H. M. S.	H. M. S.	
Eclipse begins	11 30 18	11 25 47	11 17 29	
Total dark. begins	12 39 26	12 34 55	12 26 37	Noted.
Middle	13 15 26	13 10 53	13 2 37	
Total dark. ends	13 51 26	13 46 55	13 38 37	
End of the Eclipse	15 0 34	14 56 3	14 47 45	

	H. M. S.
Duration of total darkness	1 12 0
Duration of the Eclipse	3 30 16
Digits eclipsed, 14° 56' 0".	

N. B. The time at *Oxford* will be nearly 5 min. sooner than at *London*; at *Cambridge* the same as at *London*.

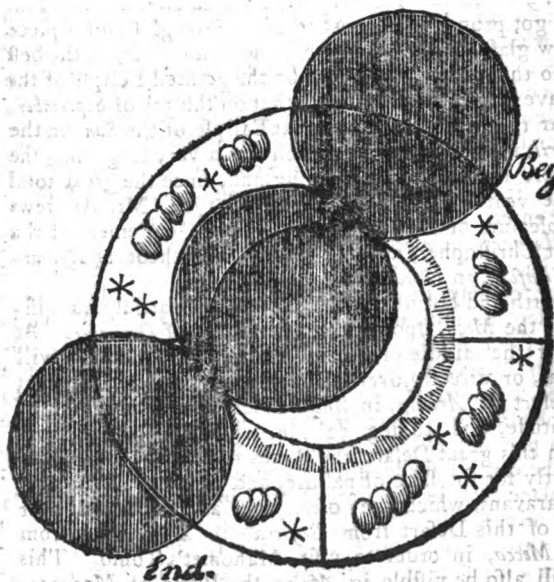
The third of these Eclipses, is a notable one of the *Sun*, upon *Tuesday* the 19th day of *November* in the morning, visible in these parts of the *Globe*.

It will be first seen to begin upon the *Sun's* vertical point at his rising, in the *Atlantic Ocean*, in latitude 47 deg 55 min. north, and in 10 deg. 51 min. west longitude from *London*, which place is about 4 degrees west of the *Island of Ushant*, near the coast of *France*. The central Eclipse begins in 66 deg. 18 min. of north latitude, in 0 deg. 15 min. of east longitude from *London*, which falls near the *Arctic Circle*, and directing its course towards the south-east, it will pass over some parts of *Norway*, the coast of *Sweden*, near the *Categate*, it then crosses the *Baltic*, and the *Island of Bornholm*; it enters *Pomerania*, and passes over some parts of *Poland*, *Hungary*, *European Turkey*, and entering the *Black Sea*, the *Sun* will there be centrally and totally eclipsed at noon-day, namely, in the meridian, and this will be in latitude 43 deg. 24 min. north, and in 29 deg. 42 min. of longitude east from *London*, which place is about 150 geographical miles N. N. E. of *Constantinople*; then leaving the *Black Sea*, it enters *Asiatic Tartary*, crosses that country into *Persia*, bending its course more northerly, it passes over the northern parts of *Hindoostan*, into the great Empire of *China*, where the central shade quits the earth with a setting sun; which place falls in the great Desert of *Cobi*, in latitude 35 deg. 55 min. north, 83 deg. 10 min. of east longitude from *London*; through all which track, the spectators will be involved in a kind of gloomy darkness, even like that at midnight. The whole penumbra leaves this terraqueous globe

in 13 deg. 20 min. of north latitude, in 73 deg. 26 min. of longitude, east from *London*; namely, in the *Arabian Sea*, not far from the coast of *Malabar* in the *East Indies*; in which place the Eclipse will be last seen to end with the setting sun. This Eclipse will be visible to all *Europe*, the northern parts of *Africa*, and the western parts of *Asia*. This Eclipse where total, will not be of long continuance, for the *Moon's* visible diameter only exceeds that of the *Sun's*, by about 46 seconds, at its greatest altitude, and in the horizon, but about 27 seconds; however, the Eclipse will be total, all along the central track, and for some distance on each side of it.

The following Type, adapted to the City of *York*, may, without sensible error, serve all parts of these kingdoms, the quantity of light excepted: and that may be nearly estimated from the subsequent calculation.

The Type for the City of YORK.



Nov. 19th morning ap- parent time.	London.	York.	Edinburgh.
	H. M. S.	H. M. S.	H. M. S.
Beginning	8 18 23	8 15 0	8 7 0
Visible conj.	9 19 49		
Middle	9 23 51	9 18 30	9 10 15
End of Eclipse	10 33 50	10 29 30	10 20 11
Digits eclipsed.	9° 23' 37"	9° 59' 51"	10° 6' 4"

N. B. At *Greenwich* and *London*, the *Moon* will make the first impression on the *Sun's* disk at 18 deg. 19 min. from his vertex on the right hand, and nearly as the above delineation for the *City of York*, and the Eclipse begins accordingly, at 15 min. past eight o'clock, apparent time. The true ecliptic conjunction at *London*, Nov. 18th, 22h. 22m. 43s. *Sun* and *Moon's* place then. in $27^{\circ} 0' 59''$; and the *Moon's* true latitude $50^{\circ} 47' N$. decreasing, semi-diameter of the *Sun* $16' 13''$, semi-diameter of the *Moon* $16'' 26''$; horary motion of *Moon* from *Sun* $34' 12''$; *Moon's* horizontal parallax $60' 16''$, and that of the *Sun's*, $9''$. In viewing the *Sun*, I would advise those that have not got proper telescopes, to use a dark glass, or a piece of window glass smoked over the flame of a candle, as the best security to their eyes. This will be the greatest Eclipse of the *Sun* we have had in England, since that on the 5th of *September*, in the year 1793. There was a great Eclipse of the *Sun*, on the 1st of *April*, in the year 1764, which was a very large one, the largest there has been visible in England, since the great total one in the year 1715. The Eclipse of 1764, Mr. Andrews had the pleasure of observing, with several Gentlemen, at the seat of Sir Christopher, now Sir Thomas Whichcot, at *Aswarby*, near *Sleaford*, in *Lincolnshire*.

The fourth and last of these Eclipses, is a partial and visible one of the *Moon*, upon *Wednesday* the 4th of *December*. At the time of the middle or greatest obscuration, the *Moon* will be vertical, or directly over head, at midnight, to the great Sandy Desert of *Arabia*, in *Asia*, under 22 deg. 53 min. of north latitude, and 48 deg. 52 min. of east longitude from *London*; in this great Desert, the Arabs remove from place to place, partly for the sake of pasture, and partly to lie in wait for the caravans, which they often rob, as they travel over that part of this Desert from *Basorah* to *Aleppo*, and from *Egypt* to *Mecca*, in order to visit Mahomet's Tomb. This Eclipse will also be visible in *Africa*, the Island of *Madagascar*, and all the lesser islands of the eastern or Indian Sea, in

Sumatra, the Mogul's Empire, in Arabia, Persia, all Europe, Iceland, Greenland; but the Moon will only rise eclipsed in Newfoundland, and the same to the eastern parts of North and South America.

In this our Island of *Great Britain*, the time and manner of its appearance may be expected to correspond with the following construction and calculation. The time of this Eclipse will be nearly the same at *Cambridge* and also at *Royston*, as it is at *London*, both being nearly under the same meridian. At *Oxford*, it will be 5 min. sooner than at *London*.

The Type for LONDON and OXFORD.



Dec. 4th, at night, apparent time.

Beginning

Middle

Opposition

End

London.

H. M. S.

7 15 20

8 44 25

8 51 25

10 13 30

York.

H. M. S.

7 10 49

8 39 54

8 46 54

10 8 59

Edinburgh.

H. M. S.

7 2 31

8 31 36

8 38 36

10 0 41

Total duration

Digits eclipsed

H. M. S.

2 38 10

8 0 6"

METEOROLOGICAL OBSERVATIONS.

Of falling Stars, and other fiery Meteors.

The falling stars, and other fiery meteors, which are frequently seen at a considerable height in the air or atmosphere, and which have received different names according to the variety of their figure and size, arise from the fermentation of the effluvia of acid and alkaline bodies, which float in the atmosphere. When the more subtle parts of the effluvia are burnt away, the viscous and earthy parts become too heavy for the air to support, and by their gravity fall to the earth.

The disappearance of fiery meteors is frequently accompanied by a loud explosion like a clap of thunder, and heavy strong bodies have been observed to fall from them to the earth.

These stony bodies when found, are always hot, and their size differs from a few ounces to a very great weight, even to several tons!! They are usually round, and always covered with a black crust. When broken, they appear of an ash-grey colour, and of a granular texture, like coarse sand-stone. These substances are probably concretions actually formed in the atmosphere, but in what manner no rational account has yet been given.

OF THE AURORA BOREALIS, or NORTHERN LIGHTS.

There have been various opinions and conjectures respecting the cause and properties of these extraordinary phenomena or appearances; and the most probable opinion is, that they arise from exhalations, and are produced by a combustion of inflammable air, caused by electricity. This inflammable air is generated particularly between the tropics, (the middle parts of the earth, where it is always very hot,) by many natural operations, such as the putrefaction of animal and vegetable substances, volcanoes, &c. and being lighter than any other, ascends to the upper regions of the atmosphere, and, by the motion of the earth, is urged towards the poles; for it has been proved by experiments that whatever is lighter, or swims on a fluid which revolves on an axis, is urged towards the extreme points of that axis: hence, these inflammable particles continually accumulate at the poles, and by meeting with heterogeneous matter, take fire,

fire, and cause those luminous appearances frequently seen towards the polar regions, as we in England see in towards the north, and it sometimes appears so light there, as if the moon was rising; for in high latitudes the *Auroræ Boreales* appear with the greatest lustre, and extend over the greater part of the hemisphere, varying their colours from all the tints of yellow to the most obscure russet. In the north-east parts of Siberia, Hudson's Bay, &c. they are attended by a continual hissing and cracking noise through the air, similar to that produced by fire-works. To the north of Scotland, they appear very frequently, where they call them the merry dancers.

Judicium Astrologicum pro Anno Redemptionis, 1816.

The SUN'S ENTRANCE into CAPRICORN, which introduces the WINTER QUARTER.

I mean always now to begin the new year with this quarter, and not with the spring quarter as formerly, because it all falls within the new year, excepting a few days. The winter quarter begins when the sun according to appearance enters the tropical sign *Capricorn*, which takes place on Friday the 22d of December, at 46 minutes past 3 o'clock in the afternoon, 1815. At this time, the last degree of π , is ascending in the east, and 24 degrees of μ , are on the mid-heaven. The Moon is under the earth, departing from a sextile aspect of *Venus*, and a square aspect of *Mercury*. The planet *Mars* is strong in his own domal dignities, located in the 11th house. The planet *Saturn* is in the 9th house, in a square aspect of *Venus*. The \odot is going down in the west, and the Moon is with α , φ , and ψ , under the earth. These are the principal configurations of the planet at this tropical ingress. Of late years, many remarkable things and occurrences have turned up and taken place; and wonderful to relate, amongst the rest, the return of BUONAPARTE to the throne of France, which has excited no little agitation amongst all the powers of Europe; and indeed, I expect from the planetary configurations at this ingress, some farther remarkable occurrences are likely to take place, and some have already taken place, and others are now on the anvil of state; as many eminent councils, and great consultations, are carrying

on in the various cabinets of *Europe*; for kings, princes, and other potentates, are much perplexed and disturbed at the late events. The *French* nation has been threatened by the armies of the surrounding powers, which has caused great disturbances in that country, together with civil broils and contentions amongst themselves—Civil war and dismay in that unhappy country, fomented by foreign powers! Indeed, if they would but consider the great evil there is in war, as it is amongst the plagues with which God often threatens sinful nations, and is of itself a diabolical work, which ravages the fair face of God's creation, and hurls destruction amongst the noblest of his creatures in this world; the abettors of this evil, be who they may, will surely have to answer for it at the throne of God.—How blind the politics, how infatuated the divinity, that can make even war palatable to the taste! The influences and effects of the planets at this time, together with the \square of Υ and δ , and the \square of \hbar and δ , now coming forward, will affect several parts of *Germany*, together with *France*, *Holland*, *Portugal*, *Spain*, and even *Italy*. Several of the *European* powers are still active, and I rather expect more so in the Spring following; at present they seem to be consulting and contriving such ways and means as may bring about some important event. *England*, I am afraid, is too much connected with continental affairs, which I doubt will be to her detriment and loss; for she will suffer in some degree from the insults of open enemies, and the perfidy of pretended friends, yet she will, I hope, triumph in the end over both, as appears by the position of the planet *Mars*, who is the proper significator of *England*, being strong in an astrological sense, in the 11th house of the figure, set for this tropical ingress. In this ensuing winter, there will be as usual great complaints of heavy taxation, with murmuring and repining against men in authority.

The SPRING QUARTER, or the SUN'S INGRESS into ARIES.

Schema cæli ingressu Solis in Ariete.



That great luminary, the *Sun*, is the fountain of light and life; to him we chiefly owe the variations of the seasons. He will now cross the Equinoctial Line, and display his genial influence on us in these northern regions; by entering into the sign *Aries*, which he will do this year on *Wednesday*, the 20th of *March*, at 9 min. past 5 in the afternoon; at which time, 21 degrees of ♈ , ascends the eastern horizon, and 18 degrees of ♈ , culminate. The above scheme displays the face of the heavens and planetary positions at that time.—The $\text{D ad } \square \odot$, et ad $\ast \♄$, et $\ast \♀$. I now come to consider from this scheme, what will probably be transacted upon the stage of *Europe*, together with our connection therewith. At this ingress, I find all the planets are under the earth, except the *Sun* and *Mars*: the *Sun* is in the western angle, viz. the 7th house, and *Mars* is in the 9th house. Hence from this figure, it appears the same occurrences of moment will take place during this year, and are even now on the avil of state, many eminent councils and great

great consultations are secretly carrying on in the cabinets of kings, princes, and great potentates of the earth; the powers of *Europe*, nevertheless, are much divided amongst themselves, each power seems to be seeking its own interest, more than the public interest. The *French* are still active in their councils, and with their swords too, if it should be necessary. It also seems as if much liberty, both civil and religious, are given to the *French* people, such as hitherto unknown, under their former kings. It also seems to me, that some of the powers on the continent of *Europe*, are much inclined to bring about a reconciliation between the *French* nation and those that are and have been hostile against her. It also appears from the figure, that the people of *England* have their doubts and fears respecting some events that have lately taken place in *France*, *Spain*, and *Holland*, as well as in some parts of *Germany*. We shall assuredly find this as well as the last a very busy year, in which many notable matters will be vigorously transacted. It is the influence of Heaven which instigates and drives on various resolutions in the people in general, and they are ordained by Almighty God, to shew that kingdoms and commonwealths have both risings and downfalls in the affections of subjects, and that no engagements hold so long, and so firm in the people's affections, as justice impartially distributed, and a seasonable compliance for redress of people's grievances. If the *English* nation wisely improve their talents, (as I hope they will) then will their fame spread abroad, and *England* will flourish again and again. As to *America*, I think the peace now begun will continue, to the mutual advantage of both countries. *England* and *America* should always go hand in hand. The *French* nation, as well as *Great Britain*, appear very formidable, to the surrounding nations, as there are still warlike appearances. The councils and meetings of great men in divers countries are infested with divisions and disorders; and this caused by accusations on one side, and impeachments on the other.

The **SUN'S ENTRANCE** into the **TROPICAL SIGN** **CANCER**, which introduces the **SUMMER QUARTER**.

This quarter begins when the *Sun* enters the Northern tropic, or the sign *Cancer*; which will this year happen on *Friday* the 21st day of *June*, at 45 min. past 2 o'clock in the afternoon; at which time, 9 degrees of Ω is upon the mid-heaven

heaven, and 29 deg. of Δ , is ascending in the east. The $\text{Dab} \square \delta$; et $\text{ad} * \delta$. The planet *Jupiter* is posited in the ascendant, the planet *Mars* in the 9th going to an opposition of the planet *Saturn*, the direct opposition of these two planets will not take place until the 18th of *July*, yet their influences will soon begin to appear—the *Moon* is in the 7th house departing from a square aspect of *Mars*, and approaching to a sextile aspect of *Mercury*. The planets, *Jupiter* and *Mars*, have lately been in a square aspect. From all which I infer, that this, like the last, will prove a very busy quarter, and rumours there will be of some approaching troubles in foreign countries, but I hope *England* will flourish and remain in tranquillity and peace, amidst all these changes and alterations still taking and likely to take place in *Europe*.

The SUN's ENTRANCE into LIBRA, which introduces the AUTUMNAL QUARTER.

This quarter takes place when the *Sun* according to appearance enters the equinoctial sign *Libra*, which he will do on *Monday* the 23d day of *September*, at 43 min. past 4 o'clock in the morning, when 16 degrees of *Virgo*, ascends in the east, and 12 deg. of *Gemini* are in the mid-heaven. The $\text{Dab} \delta$ of η , et Δ of η , ad $\delta \delta$. The aspects of note in this quarter are a \square of η and δ , and a δ of η and *Mars*; and on the 29th of *October*, there happens a square aspect of *Saturn* and *Jupiter*, from m and --- . At the time of this ingress, the *Sun* and *Mars* are in the ascendant, afflicting each other; *Venus*, the *Moon*, and *Mercury* near each other in the second house; all the planets are under the earth at this ingress. This quarter then by these configurations of the planets, will, like the foregoing, produce some particular occurrences both in *France*, *Spain*, *Italy*, and some parts of *Germany* also; there seems to be a restless party, who will stir up broils and contentions, if not war. There are a race of men in the world, who will bear no restraint or controul, though they be promoting the most unjust and illegal attempts; but the time is approaching, when tyrannical governments must down; when the power of the motley leopard, the dragon, and such like beasts of cruelty will no longer prevail—for all things are established in certain periods of time, and we are all ruled by the pre-ordained councils of impending fate.

FINIS.