

PRINCIPAL ARTICLES OF THE CALENDAR, FOR THE YEAR 1866.

Golden Number	5	Dominical Letter	G
Epact	14	Roman Indiction	9
Solar Cycle	27	Julian Period	6579

FIXED AND MOVEABLE FESTIVALS, ANNIVERSARIES, &c., &c.

Epiphany	Jan. 6	Ascension Day—Holy Thursday	May 10
Septuagesima Sunday	" 28	Pentecost—Whit Sunday	" 20
Quinquagesima—Shrove Sunday	Feb. 11	Birth of Queen Victoria	" 24
Ash Wednesday	" 14	Trinity Sunday	" 27
Quadragesima—1st Sunday in Lent	" 18	Corpus Christi	" 31
St. David	Mar. 1	Accession of Queen Victoria	June 20
St. Patrick	" 17	Proclamation	" 21
Annunciation—Lady Day	" 25	St. John Bapt.—Midsummer Day	" 24
Palm Sunday	" 25	St. Michael—Michaelmas Day	Sept. 29
Good Friday	" 30	Birth of Prince of Wales	Nov. 9
EASTER SUNDAY	April 1	St. Andrew	" 30
Low Sunday	" 8	1st Sunday in Advent	Dec. 2
St. George	" 23	St. Thomas	" 21
Rogation Sunday	May 6	Christmas Day	" 25

The year 5627 of the Jewish Era commences on September 10, 1866.

Ramadan (Month of Abstinence observed by the Turks) commences on January 18, 1866.

The year 1283 of the Mohammedan Era commences on May 16, 1866.

MEMORANDA.

All the articles of the Ephemeris have been reduced from the "Nautical Almanac" for 1866 to the Meridian of Lyttelton.

The time given is in every case *Civil Time*: twelve hours before noon and twelve hours after noon constituting the day.

The Phases of the Moon are calculated to the nearest minute of *mean time*.

The Sun's Declination is the angular distance of the sun from the equator, north or south, as indicated at *apparent noon* on each day.

The column of Equation of Time shows the minutes and seconds of difference between *apparent* and *mean time* on each day. When the sign + is prefixed, this difference must be added to *apparent time* to find *mean time*, and subtracted from *mean time* to find *apparent time*. When the sign — is prefixed the converse operations respectively are necessary.

The Moon's Meridian Passage and Sunrise and Sunset are given in *mean time*, being the time which ought to be shown by the clock at each occurrence. The *apparent time* of these phenomena will be discovered by applying the column of Equation of Time as above indicated.

The Custom-house, Lyttelton, to which all calculations are referred herein, stands as follows:—

Longitude, 172° 44' 17" E.; latitude, 43° 36' 42" S.

JANUARY—XXXI DAYS.

PHASES OF THE MOON.

	D. H. M.		D. H. M.
Full Moon	1 7 0 p.m.	First Quarter	24 8 25 a.m.
Last Quarter	9 9 7 a.m.	Full Moon	31 7 59 a.m.
New Moon	17 8 7 a.m.		
Apogee, 10d. 10h. a.m.		Perigee, 24d. 9h. a.m.	

DAYS.	REMARKABLE DAYS.	SUN'S AP- ARENT DE- CLINATION.	EQUATION OF TIME ADD TO APPARENT TIME.	MOON'S AGE AT NOON.	MOON'S MERIDIAN PASSAGE. Mean Time.	MEAN TIME CORRECTED.		DAYS.
						Sun Rises.	Sun Sets.	
1 M	Circumcision	23 2 48	3 39-37	13		4 30	7 37	1
2 T	Capture of Calcutta, 1757	22 57 32	4 7-45	14	0 11 a.m.	4 31	7 37	2
3 W	Rachel died, 1858	22 52 17	4 35-19	15	1 8	4 32	7 37	3
4 Th		22 46 8	5 2-55	16	2 3	4 33	7 37	4
5 F		22 39 44	5 29-50	17	2 52	4 34	7 36	5
6 Sat	Epiphany. Twelfth Day	22 32 54	5 56-10	18	3 39	4 35	7 36	6
7 S	First Sunday after Epiphany	22 24 37	6 22-28	19	4 23	4 36	7 36	7
8 M		22 17 53	6 48-63	20	5 6	4 37	7 36	8
9 T	Nelson buried, 1806	22 9 44	7 13-69	21	5 40	4 38	7 36	9
10 W	Penny Postage established, 1840	22 1 9	7 38-91	22	6 32	4 40	7 35	10
11 Th	Hilary Term begins	21 52 19	8 3-19	23	7 18	4 41	7 35	11
12 F	Chinese Treaty published, 1861	21 42 52	8 26-59	24	8 2	4 42	7 35	12
13 Sat	First transports Botany Bay, 1788	21 33 0	8 40-92	25	8 50	4 43	7 34	13
14 S	Second Sunday after Epiphany	21 22 41	9 12-54	26	9 39	4 44	7 34	14
15 M	Battle of Corunna, 1809	21 11 58	9 34-04	27	10 30	4 45	7 33	15
16 T		21 0 52	9 55-43	28	11 21	4 46	7 32	16
17 W		20 49 21	10 15-56	0	0 13 p.m.	4 47	7 32	17
18 Th	Earthquake at Sydney, 1800	20 37 27	10 34-98	1	1 6	4 48	7 31	18
19 F	James Watt born, 1736	20 25 9	10 54-11	2	1 58	4 49	7 31	19
20 Sat	John Howard died, 1790	20 12 27	11 12-02	3	2 49	4 50	7 30	20
21 S	Third Sunday after Epiphany	19 59 24	11 30-17	4	3 35	4 52	7 30	21
22 M	Earthquake, 1855	19 45 67	11 47-95	5	4 31	4 53	7 29	22
23 T	Wellington Province Anniversary.	19 32 10	12 3-50	6	5 23	4 54	7 28	23
24 W	Duke of Kent died, 1820	19 18 0	12 18-82	7	6 17	4 55	7 27	24
25 Th	Princess Royal married, 1858	19 3 39	12 32-76	8	7 11	4 57	7 26	25
26 F	New South Wales founded, 1788	18 48 37	12 45-87	9	8 8	4 58	7 25	26
27 Sat	Gov. Hobson arrived in N.Z., 1840	18 35 25	12 58-15	10	9 5	4 59	7 24	27
28 S	Septuagesima Sunday.	18 17 53	13 10-49	11	10 2	5 1	7 23	28
29 M	Auckland Anniversary	18 2 0	13 21-18	12	10 57	5 2	7 22	29
30 T	King Charles I. beheaded	17 45 50	13 30-77	13	11 50	5 3	7 21	30
31 W	Hilary Term ends	17 29 19	13 40-98	14	—	5 5	7 20	31

PHENOMENA FOR THE MONTH.

JANUARY.—3rd, 10h. 46m. a.m., Mercury stationary; 5th, 8h. 20m. p.m., Venus in descending node; 11th, 7h. 4m. a.m., Saturn in conjunction with the Moon; 14th, 8h. 24m. a.m., Mercury's greatest elongation; 14th, 3h. 30m. p.m., Venus in conjunction with Jupiter; 15th, 8h. 47m. a.m., Mercury in conjunction with the Moon; 15th, 7h. 29m. p.m., Mars in conjunction with the Moon; 16th, 10h. 5m. a.m., Jupiter in conjunction with the Moon; 16th, 1h. 57m. p.m., Venus in conjunction with the Moon; 24th, 3h. 10m. a.m., Mercury in descending node; 26th, 1h. 41m. a.m., Mercury in conjunction with Mars; 27th, 6h. 56m. p.m., Mercury in conjunction with Jupiter; 28th, 9h. 27m. a.m., Uranus in conjunction with the Moon; 29th, 7h. 36m. p.m., Mars in conjunction with Jupiter.

FARMING OPERATIONS.

Finish haymaking and stacking; hoe and mould up potatoes; finish hoeing and thinning all the root crops. Be careful that all furrows and drains are open, that the root-covered land may be quickly relieved of any water that may fall; dry, well-cultivated lands do not suffer from drought so much as those which have been previously water sodden. Keep the plough going in breaking up unimproved lands.