

Spring Phenomena 25 BCE to 38 CE

The first table below gives the Julian calendar dates and Greenwich times of the astronomical vernal equinox for the years 25 BCE through 38 CE inclusive. The second table gives, for these years, the Julian calendar dates and Greenwich times of the *astronomical* Full Moons which occurred on or after the date of the equinox, and the dates and times of the astronomical New Moons on or preceding, and after, the date of the equinox. The days of the week are given for the equinoxes and the Full Moons, from which the days of the week may readily be found for the New Moons.

The times given in the tables are accurate to within two or three hours for 25 to 5 BCE, and one or two hours for 4 BCE to 38 CE. The uncertainty in these times arises from the *stochastic*, that is unpredictable, change in the Earth's rotation rate.

VERNAL EQUINOX

Julian Calendar	Greenwich Date	Time	Day of Week
BCE March			
25	22	8 p.m.	Saturday
24	23	2 a.m.	Monday
23	23	8 a.m.	Tuesday
22	23	1 p.m.	Wednesday
21	22	7 p.m.	Thursday
20	23	1 a.m.	Saturday
19	23	7 a.m.	Sunday
18	23	1 p.m.	Monday
17	22	6 p.m.	Tuesday
16	23	0*	Thursday
15	23	6 a.m.	Friday
14	23	Noon	Saturday
13	22	6 p.m.	Sunday
12	22	11 p.m.	Monday
11	23	5 a.m.	Wednesday
10	23	11 a.m.	Thursday
9	22	5 p.m.	Friday
8	22	11 p.m.	Saturday
7	23	5 a.m.	Monday
6	23	10 a.m.	Tuesday
5	22	4 p.m.	Wednesday
4	22	10 p.m.	Thursday
3	23	4 a.m.	Saturday
2	23	10 a.m.	Sunday
1	22	3 p.m.	Monday
CE			
1	22	9 p.m.	Tuesday
2	23	3 a.m.	Thursday

3	23	9 a.m.	Friday
4	22	3 p.m.	Saturday
5	22	8 p.m.	Sunday
6	23	2 a.m.	Tuesday
7	23	8 a.m.	Wednesday
8	22	2 p.m.	Thursday
9	22	8 p.m.	Friday
10	23	1 a.m.	Sunday
11	23	7 a.m.	Monday
12	22	1 p.m.	Tuesday
13	22	7 p.m.	Wednesday
14	23	1 a.m.	Friday
15	23	7 a.m.	Saturday
16	22	Noon	Sunday
17	22	6 p.m.	Monday
18	23	0*	Wednesday
19	23	6 a.m.	Thursday
20	22	Noon	Friday
21	22	6 p.m.	Saturday
22	22	11 p.m.	Sunday
23	23	5 a.m.	Tuesday
24	22	11 a.m.	Wednesday
25	22	5 p.m.	Thursday
26	22	10 p.m.	Friday
27	23	4 a.m.	Sunday
28	22	10 a.m.	Monday
29	22	4 p.m.	Tuesday
30	22	10 p.m.	Wednesday
31	23	3 a.m.	Friday
32	22	9 a.m.	Saturday
33	22	3 p.m.	Sunday
34	22	9 p.m.	Monday
35	23	3 a.m.	Wednesday
36	22	9 a.m.	Thursday
37	22	2 p.m.	Friday
38	22	8 p.m.	Saturday

*** Midnight at the beginning
of March 23.**

FULL MOON

On or next after
date of equinox

Julian Greenwich Week
Cal. Date Time Day
BCE

25 April 3 4 a.m. Thu.
24 March 23 9 p.m. Mon.
23 April 11 9 p.m. Sun.
22 April 1 6 a.m. Fri.
21 April 19 1 a.m. Thu.

20 April 8 3 a.m. Mon.
19 March 28 5 a.m. Fri.
18 April 16 0* Thu.
17 April 4 Noon Mon.
16 March 25 4 a.m. Sat.

15 April 13 5 a.m. Fri.
14 April 2 7 p.m. Tue.
13 April 20 5 p.m. Mon.
12 April 9 9 p.m. Fri.
11 March 29 10 p.m. Tue.

10 April 17 4 p.m. Mon.
9 April 5 10 p.m. Fri.
8 March 26 11 a.m. Wed.
7 April 14 Noon Tue.
6 April 4 5 a.m. Sun.

5 March 23 6 p.m. Thu.
4 April 11 3 p.m. Wed.
3 March 31 6 p.m. Sun.
2 April 19 10 a.m. Sat.
1 April 7 Noon Wed.

CE

1 March 27 9 p.m. Sun.
2 April 15 7 p.m. Sat.
3 April 5 Noon Thu.
4 March 25 5 a.m. Tue.
5 April 13 3 a.m. Mon.

6 April 2 11 a.m. Fri.
7 April 21 5 a.m. Thu. (1)

8 April 9 6 a.m. Mon.
9 March 29 9 a.m. Fri.
10 April 17 6 a.m. Thu.

11 April 6 7 p.m. Mon.
12 March 26 Noon Sat.
13 April 14 Noon Fri.
14 April 4 2 a.m. Wed.
15 March 24 7 a.m. Sun.

16 April 11 0* Sat.
17 March 31 1 a.m. Wed.
18 April 18 7 p.m. Mon.
19 April 8 4 a.m. Sat.
20 March 27 7 p.m. Wed.

21 April 15 8 p.m. Tue.
22 April 5 Noon Sun.
23 March 25 11 p.m. Thu.
24 April 12 6 p.m. Wed.
25 April 1 7 p.m. Sun.

26 April 20 Noon Sat. (2)
27 April 9 4 p.m. Wed.
28 March 29 3 a.m. Mon.
29 April 17 3 a.m. Sun.
30 April 6 8 p.m. Thu.

31 March 27 11 a.m. Tue.
32 April 14 9 a.m. Mon.
33 April 3 3 p.m. Fri.
34 March 23 3 p.m. Tue.
35 April 11 8 a.m. Mon.

36 March 30 2 p.m. Fri.
37 April 18 Noon Thu.
38 April 8 3 a.m. Tue.

NEW MOON

On or preceding
date of equinox Following equinox

Julian Greenwich Julian Greenwich
Cal. Date Time Cal. Date Time
BCE

25 March 19 Noon April 18 4 a.m.
24 March 8 2 p.m. April 7 5 a.m.
23 Feb. 25 8 p.m. March 27 9 a.m.
22 March 16 7 p.m. April 15 6 a.m.
21 March 5 11 a.m. April 3 7 p.m.

20 Feb. 23 4 a.m. March 24 1 p.m.
19 March 14 4 a.m. April 12 1 p.m.
18 March 3 Noon April 2 2 a.m.
17 March 21 8 a.m. April 19 9 p.m.
16 March 10 8 a.m. April 9 0*

15 Feb. 27 10 a.m. March 29 1 a.m.
14 March 18 6 a.m. April 16 7 p.m.
13 March 6 6 p.m. April 5 4 a.m.
12 Feb. 24 11 a.m. March 25 7 p.m.
11 March 15 Noon April 13 8 p.m.

10 March 5 2 a.m. April 3 Noon
9 March 22 11 p.m. April 21 11 a.m.
8 March 12 3 a.m. April 10 6 p.m.
7 March 1 3 a.m. March 30 7 p.m.
6 March 19 9 p.m. April 18 Noon

5 March 8 5 a.m. April 6 5 p.m.
4 Feb. 25 6 p.m. March 27 4 a.m.
3 March 16 7 p.m. April 15 4 a.m.
2 March 6 Noon April 4 9 p.m.
1 Feb. 24 0* March 24 Noon

CE

1 March 13 8 p.m. April 12 9 a.m.
2 March 2 10 p.m. April 1 2 p.m.
3 March 21 3 p.m. April 20 7 a.m.
4 March 9 6 p.m. April 8 9 a.m.
5 Feb. 27 3 a.m. March 28 2 p.m.

6 March 18 3 a.m. April 16 Noon
7 March 7 8 p.m. April 6 4 a.m.
8 Feb. 25 Noon March 25 9 p.m.

9 March 15 10 a.m. April 13 9 p.m.

10 March 4 4 p.m. April 3 6 a.m.

11 March 23 10 a.m. April 22 1 a.m.

12 March 11 11 a.m. April 10 3 a.m.

13 Feb. 28 3 p.m. March 30 5 a.m.

14 March 19 Noon April 18 0*

15 March 9 2 a.m. April 7 11 a.m.

16 Feb. 26 8 p.m. March 27 4 a.m.

17 March 16 8 p.m. April 15 4 a.m.

18 March 6 7 a.m. April 4 7 p.m.

19 Feb. 23 Noon March 25 3 a.m.

20 March 13 5 a.m. April 11 9 p.m.

21 March 2 6 a.m. March 31 10 p.m.

22 March 21 1 a.m. April 19 3 p.m.

23 March 10 11 a.m. April 8 10 p.m.

24 Feb. 28 2 a.m. March 28 11 a.m.

25 March 18 4 a.m. April 16 Noon

26 March 7 7 p.m. April 6 5 a.m.

27 Feb. 25 4 a.m. March 26 5 p.m.

28 March 15 0* April 13 2 p.m.

29 March 4 0* April 2 5 p.m.

30 March 22 6 p.m. April 21 9 a.m.

31 March 11 11 p.m. April 10 Noon

32 Feb. 29 10 a.m. March 29 8 p.m.

33 March 19 10 a.m. April 17 7 p.m.

34 March 9 4 a.m. April 7 Noon

35 Feb. 26 6 p.m. March 28 4 a.m.

36 March 16 3 p.m. April 15 3 a.m.

37 March 5 7 p.m. April 4 10 a.m.

38 Feb. 22 7 p.m. March 24 Noon

(1) Preceding Full Moon, March 22, 1 p.m.

(2) Preceding Full Moon, March 21, 9 p.m.

* Midnight at the beginning
of the given date.

**Captured from: Web Capture – WayBack Machine:
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