

Astronomy Calendar

WINTER/SPRING 2019

DAY	TIME	EVENTS
JUNE 2019		
03	22:02	☾ NEW MOON
08	11:21	Moon at perigee (368,504 km)
10	17:59	☾ FIRST QUARTER
11	03:29	Jupiter opposition
17	17:46	Venus close to Aldebaran (4.7°)
17	20:31	☀ FULL MOON
19	05:53	Mercury close to Mars (0.2°)
22	03:54	WINTER SOLSTICE (Southern Hemisphere)
23	19:50	Moon at apogee (404,548 km)
24	12:00	Mercury greatest elongation (E 25.2°)
25	21:46	☾ LAST QUARTER
JULY 2019		
03	07:16	☾ NEW MOON
05	11:00	Earth at aphelion (1.01675 AU)
05	16:54	Moon at perigee (363,726 km)
07	19:00	Mercury at aphelion (0.46670 au)
09	05:46	Mercury close to Mars (4.0°)
09	22:55	☾ FIRST QUARTER
10	05:08	Saturn opposition
16	17:53	Moon close to Saturn (0.3°)
17	09:38	☀ FULL MOON (partial eclipse partly visible in Auckland)
21	12:01	Moon at apogee (405,480 km)
22	00:34	Mercury at inferior conjunction
25	13:18	☾ LAST QUARTER
31	00:18	Meteor shower: s. Delta Aquarids
AUGUST 2019		
01	15:12	☾ NEW MOON
02	19:08	Moon at perigee (359,398 km)
08	05:31	☾ FIRST QUARTER
08	21:00	Venus at perihelion
10	18:00	Mercury greatest elongation (W 19.0°)
12	21:15	Beginning of occultation of Saturn
12	22:16	End of occultation of Saturn
14	18:04	Venus at superior conjunction
16	00:29	☀ FULL MOON
17	22:50	Moon at apogee (406,244 km)
20	19:00	Mercury at perihelion
24	02:56	☾ LAST QUARTER
25	18:00	Venus maximum brightness (magn. -3.93)
26	13:00	Mars at aphelion (1.66606 au)
30	22:37	☾ NEW MOON
31	03:57	Moon at perigee (357,176 km)

DAY	TIME	EVENTS
SEPTEMBER 2019		
02	22:46	Mars at conjunction
04	13:39	Mercury at superior conjunction
06	15:10	☾ FIRST QUARTER
06	20:27	Moon close to Jupiter (2.5°)
09	02:58	Moon close to Saturn (0.5°)
10	19:24	Neptune opposition
14	01:32	Moon at apogee (406,377 km)
14	16:33	☀ FULL MOON
21	01:14	Moon close to Aldebaran (3.2°)
22	14:41	☾ LAST QUARTER
23	19:50	SPRING EQUINOX (Southern Hemisphere)
28	14:27	Moon at perigee (357,802 km)
29	02:00	Daylight Saving starts
29	07:26	☾ NEW MOON
OCTOBER 2019		
03	19:00	Mercury at aphelion (0.46670 au)
06	05:47	☾ FIRST QUARTER
11	07:29	Moon at apogee (405,899 km)
14	10:08	☀ FULL MOON
20	12:00	Mercury greatest elongation (E 24.5°)
22	01:39	☾ LAST QUARTER
22	07:48	Meteor shower: Orionids
26	23:41	Moon at perigee (361,311 km)
28	16:38	☾ NEW MOON
28	21:15	Uranus at opposition
NOVEMBER 2019		
02	21:16	Beginning of occultation of Saturn (magn. = 0.56)
02	21:59	End of occultation of Saturn (magn. = 0.56)
04	23:23	☾ FIRST QUARTER
07	21:37	Moon at apogee (405,058 km)
10	21:49	Mars close to Spica (2.8°)
12	04:22	Transit of Mercury
13	02:07	Asteroid Vesta opposition
13	02:34	☀ FULL MOON
16	19:00	Mercury at perihelion
18	13:12	Meteor Shower: Leonids
20	10:11	☾ LAST QUARTER
23	20:54	Moon at perigee (366,716 km)
25	01:33	Venus close to Jupiter (1.4°)
27	04:06	☾ NEW MOON
29	00:00	Mercury greatest elongation (W 19.9°)
29	07:00	Venus at aphelion