

Astronomical Phenomena

July 2026 – June 2027

Orbital Phenomena of the Earth

Orbital phenomena			
Aphelion (Earth furthest from Sun)	2026 July 7	05:31	
Equinox (Sun moves south of the equator); equal day, night	2026 September 23	12:05	
Solstice (Sun furthest south); southern hemisphere longest day	2026 December 22	08:50	
Perihelion (Earth nearest to Sun)	2027 January 3	14:33	
Equinox (Sun moves north of the equator); equal day, night	2027 March 21	08:25	
Solstice (Sun furthest north); southern hemisphere shortest day	2027 June 22	02:11	

Solar and Lunar Eclipses

Type of eclipse	Maximum eclipse		Visibility from Wellington
Total eclipse of the Sun	2026 August 13	05:46	Not visible
Penumbral eclipse of the Moon	2026 August 28	17:56	Entire event visible
Annular eclipse of the Sun	2027 February 7	03:59	Not visible
Penumbral eclipse of the Moon	2027 February 21	11:13	Not visible

Lunar Perigee and Apogee

Perigee (Moon closest to Earth)				Apogee (Moon furthest from Earth)		
		Distance (km)				Distance (km)
2026	Jul 13	19:57	359,336			
	Aug 10	23:18	363,460	Jul 26	04:45	405,430
	Sep 7	08:43	368,361	Aug 22	20:21	404,496
	Oct 2	08:52	369,410	Sep 19	15:00	404,059
	Oct 29	06:06	364,564	Oct 17	10:56	404,485
	Nov 26	09:01	359,567	Nov 14	05:50	405,486
	Dec 24	20:31	356,903	Dec 11	18:45	406,322
2027	Jan 22	09:48	357,530	Jan 7	20:08	406,528
	Feb 19	19:31	361,222	Feb 4	01:31	406,085
	Mar 19	16:28	366,572	Mar 3	17:41	405,078
	Apr 14	12:35	370,065	Mar 31	13:33	404,168
	May 10	08:09	366,755	Apr 28	09:22	404,009
	Jun 7	02:54	361,893	May 26	03:13	404,659
				Jun 22	17:07	405,586

Phases of the Moon

New Moon		First Quarter		Full Moon		Last Quarter		
2026	Jul 14	21:44	Jul 21	23:06	Jul 30	02:36	Jul 8	07:29
	Aug 13	05:37	Aug 20	14:46	Aug 28	16:18	Aug 6	14:21
	Sep 11	15:27	Sep 19	08:44	Sep 27	04:49	Sep 4	19:51
	Oct 11	03:50	Oct 19	04:13	Oct 26	16:12	Oct 4	01:25
	Nov 9	19:02	Nov 17	23:48	Nov 25	02:53	Nov 2	08:28
	Dec 9	12:52	Dec 17	17:43	Dec 24	13:28	Dec 1	18:09
							Dec 31	06:59
2027	Jan 8	08:24	Jan 16	08:34	Jan 23	00:17	Jan 29	22:55
	Feb 7	03:56	Feb 14	19:58	Feb 21	11:24	Feb 28	17:16
	Mar 8	21:29	Mar 16	04:25	Mar 22	22:44	Mar 30	12:54
	Apr 7	11:51	Apr 14	10:57	Apr 21	10:27	Apr 29	08:18
	May 6	22:59	May 13	16:44	May 20	22:59	May 29	01:58
	Jun 5	07:40	Jun 11	22:56	Jun 19	12:44	Jun 27	16:54

Times listed are in New Zealand Standard Time (NZST).
Add 1 hour when New Zealand Daylight Time (NZDT) is in force.