

Astronomical Phenomena

July 2025 – June 2026

Orbital Phenomena of the Earth

Orbital phenomena			
Aphelion (Earth furthest from Sun)	2025 July 4	07:55	
Equinox (Sun moves south of the equator); equal day, night	2025 September 23	06:19	
Solstice (Sun furthest south); southern hemisphere longest day	2025 December 22	03:03	
Perihelion (Earth nearest to Sun)	2026 January 4	05:16	
Equinox (Sun moves north of the equator); equal day, night	2026 March 21	02:46	
Solstice (Sun furthest north); southern hemisphere shortest day	2026 June 21	28:24	

Solar and Lunar Eclipses

Type of eclipse	Maximum eclipse		Visibility from Wellington
Total eclipse of the Moon	2025 September 8	06:12	Moon sets during event
Partial eclipse of the Sun	2025 September 22	07:42	Entire event visible
Annular eclipse of the Sun	2026 February 18	00:12	Not visible
Total eclipse of the Moon	2026 March 3	23:34	Entire event visible

Lunar Perigee and Apogee

Perigee (Moon closest to Earth)				Apogee (Moon furthest from Earth)		
Distance (km)				Distance (km)		
2025				Jul 5	14:29	404,482
	Jul 21	01:55	368,146	Aug 2	08:36	404,001
	Aug 15	05:59	369,363	Aug 30	03:34	404,391
	Sep 11	00:10	364,928	Sep 26	21:46	405,412
	Oct 9	00:38	360,032	Oct 24	11:30	406,342
	Nov 6	10:27	357,082	Nov 20	14:48	406,611
	Dec 4	23:07	357,212	Dec 17	18:09	406,221
2026	Jan 2	09:44	360,561	Jan 14	08:47	405,302
	Jan 30	09:46	366,015	Feb 11	04:52	404,416
	Feb 25	11:14	370,195	Mar 11	01:43	404,221
	Mar 22	23:40	366,979	Apr 7	20:31	404,826
	Apr 19	18:56	361,822	May 5	10:30	405,726
	May 18	01:44	358,309	Jun 1	16:33	406,279
	Jun 15	11:20	357,441	Jun 28	19:11	406,174

Phases of the Moon

New Moon			First Quarter		Full Moon		Last Quarter	
2025			Jul 3	07:30	Jul 11	08:37	Jul 18	12:38
	Jul 25	07:11	Aug 2	00:41	Aug 9	19:55	Aug 16	17:12
	Aug 23	18:06	Aug 31	18:25	Sep 8	06:09	Sep 14	22:33
	Sep 22	07:54	Sep 30	11:54	Oct 7	15:48	Oct 14	06:13
	Oct 22	00:25	Oct 30	04:21	Nov 6	01:19	Nov 12	17:28
	Nov 20	18:47	Nov 28	18:59	Dec 5	11:14	Dec 12	08:52
	Dec 20	13:43	Dec 28	07:10				
2026					Jan 3	22:03	Jan 11	03:48
	Jan 19	07:52	Jan 26	16:47	Feb 2	10:09	Feb 10	00:43
	Feb 18	00:01	Feb 25	00:28	Mar 3	23:38	Mar 11	21:38
	Mar 19	13:23	Mar 26	07:18	Apr 2	14:12	Apr 10	16:52
	Apr 17	23:52	Apr 24	14:32	May 2	05:23	May 10	09:10
	May 17	08:01	May 23	23:11	May 31	20:45	Jun 8	22:00
	Jun 15	14:54	Jun 22	09:55	Jun 30	11:57		

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