

SUMMER 2016/2017

Moonrise & Moonset

DECEMBER 2016

DATE	RISE	AZI°	TRAN	ALT°	SET	AZI°	ILL%
1	7:13am	113°	2:24pm	71.5°	9:37pm	246°	2.40
2	7:59am	114°	3:12pm	71.8°	10:25pm	246°	6.20
3	8:50am	113°	4:02pm	71.0°	11:11pm	248°	11.80
4	9:44am	111°	4:51pm	69.4°	11:54pm	250°	19.20
5	10:41am	109°	5:40pm	66.8°	-	-	28.00
6	11:40am	105°	6:29pm	63.5°	12:33am	254°	38.00
7	12:41pm	100°	7:18pm	59.5°	1:11am	258°	48.90
8	1:45pm	94°	8:07pm	55.0°	1:47am	263°	60.10
9	2:50pm	88°	8:58pm	50.2°	2:23am	269°	71.20
10	3:57pm	82°	9:51pm	45.5°	3:00am	274°	81.40
11	5:07pm	77°	10:47pm	41.0°	3:39am	280°	90.00
12	6:17pm	72°	11:45pm	37.3°	4:21am	286°	96.20
13	7:28pm	68°	-	-	5:09am	290°	-
14	8:35pm	66°	12:46am	34.7°	6:02am	293°	99.40
15	9:37pm	66°	1:48am	33.5°	7:01am	294°	99.40
16	10:32pm	68°	2:49am	33.7°	8:03am	293°	96.30
17	11:19pm	71°	3:48am	35.3°	9:08am	291°	90.50
18	-	-	4:43am	37.9°	10:12am	287°	82.70
19	12:01am	75°	5:35am	41.3°	11:14am	283°	73.50
20	12:38am	80°	6:23am	45.2°	12:14pm	278°	63.50
21	1:11am	85°	7:09am	49.3°	1:12pm	273°	53.30
22	1:43am	90°	7:52am	53.4°	2:08pm	268°	43.30
23	2:14am	95°	8:35am	57.4°	3:03pm	263°	33.70
24	2:45am	99°	9:18am	61.2°	3:58pm	258°	24.90
25	3:17am	104°	10:02am	64.6°	4:52pm	254°	17.00
26	3:51am	107°	10:46am	67.5°	5:46pm	251°	10.40
27	4:29am	111°	11:32am	69.7°	6:40pm	248°	5.30
28	5:10am	113°	12:20pm	71.2°	7:32pm	247°	1.80
29	5:55am	114°	1:09pm	71.8°	8:22pm	246°	0.20
30	6:45am	114°	1:58pm	71.5°	9:10pm	247°	0.70
31	7:39am	112°	2:48pm	70.1°	9:54pm	249°	3.20

JANUARY 2017

DATE	RISE	AZI°	TRAN	ALT°	SET	AZI°	ILL%
1	8:35am	110°	3:38pm	67.9°	10:35pm	252°	7.80
2	9:34am	106°	4:27pm	64.8°	11:13pm	256°	14.40
3	10:35am	102°	5:16pm	61.0°	11:50pm	261°	22.90
4	11:37am	96°	6:04pm	56.7°	-	-	32.70
5	12:40pm	91°	6:54pm	52.1°	12:25am	266°	43.70
6	1:44pm	85°	7:44pm	47.4°	1:00am	272°	55.30
7	2:50pm	79°	8:36pm	43.0°	1:37am	278°	66.80
8	3:58pm	74°	9:31pm	39.1°	2:16am	283°	77.60
9	5:06pm	70°	10:29pm	36.0°	2:59am	288°	86.90
10	6:13pm	67°	11:28pm	34.0°	3:48am	291°	94.00
11	7:17pm	66°	-	-	4:42am	294°	-
12	8:15pm	67°	12:29am	33.4°	5:41am	294°	98.50
13	9:07pm	69°	1:29am	34.2°	6:45am	293°	99.90
14	9:53pm	73°	2:27am	36.3°	7:50am	290°	98.40
15	10:33pm	77°	3:21am	39.3°	8:55am	286°	94.30
16	11:09pm	82°	4:13am	43.1°	9:58am	281°	88.00
17	11:42pm	87°	5:01am	47.2°	10:58am	276°	80.10
18	-	-	5:46am	51.4°	11:57am	270°	71.10
19	12:14am	92°	6:30am	55.6°	12:53pm	265°	61.50
20	12:45am	97°	7:14am	59.5°	1:49pm	260°	51.70
21	1:17am	102°	7:57am	63.1°	2:43pm	256°	42.00
22	1:51am	106°	8:41am	66.3°	3:37pm	252°	32.60
23	2:27am	109°	9:27am	68.8°	4:31pm	249°	23.90
24	3:06am	112°	10:14am	70.6°	5:24pm	247°	16.10
25	3:50am	113°	11:02am	71.6°	6:15pm	246°	9.50
26	4:38am	114°	11:51am	71.7°	7:04pm	247°	4.40
27	5:30am	113°	12:42pm	70.7°	7:50pm	248°	1.20
28	6:27am	111°	1:32pm	68.8°	8:33pm	251°	0.00
29	7:26am	108°	2:23pm	66.0°	9:13pm	255°	1.20
30	8:27am	103°	3:13pm	62.4°	9:51pm	259°	4.80
31	9:30am	98°	4:02pm	58.2°	10:27pm	265°	10.60

FEBRUARY 2017

DATE	RISE	AZI°	TRAN	ALT°	SET	AZI°	ILL%
1	10:33am	93°	4:52pm	53.6°	11:03pm	270°	18.60
2	11:37am	87°	5:42pm	49.0°	11:39pm	276°	28.40
3	12:42pm	81°	6:33pm	44.5°	-	-	39.40
4	1:48pm	76°	7:26pm	40.4°	12:17am	281°	51.10
5	2:54pm	71°	8:21pm	37.1°	12:58am	286°	62.90
6	4:00pm	68°	9:17pm	34.7°	1:43am	290°	74.00
7	5:03pm	66°	10:16pm	33.6°	2:33am	293°	83.80
8	6:02pm	66°	11:14pm	33.7°	3:28am	294°	91.60
9	6:56pm	68°	-	-	4:28am	293°	-
10	7:43pm	71°	12:12am	35.2°	5:31am	291°	96.90
11	8:26pm	75°	1:07am	37.7°	6:35am	288°	99.70
12	9:04pm	79°	2:00am	41.1°	7:39am	283°	99.70
13	9:39pm	85°	2:50am	45.1°	8:41am	278°	97.20
14	10:12pm	90°	3:37am	49.3°	9:41am	273°	92.60
15	10:44pm	95°	4:23am	53.6°	10:40am	268°	86.20
16	11:16pm	100°	5:07am	57.7°	11:37am	262°	78.40
17	11:49pm	104°	5:51am	61.6°	12:32pm	258°	69.60
18	-	-	6:35am	64.9°	1:27pm	254°	60.30
19	12:24am	108°	7:20am	67.8°	2:21pm	250°	50.60
20	1:02am	111°	8:06am	69.9°	3:14pm	248°	40.90
21	1:44am	113°	8:53am	71.2°	4:05pm	247°	31.50
22	2:29am	114°	9:42am	71.7°	4:55pm	246°	22.60
23	3:19am	113°	10:32am	71.2°	5:42pm	247°	14.70
24	4:14am	112°	11:22am	69.8°	6:27pm	250°	8.10
25	5:12am	109°	12:13pm	67.3°	7:09pm	253°	3.20
26	6:13am	105°	1:04pm	64.0°	7:48pm	257°	0.50
27	7:17am	100°	1:55pm	59.9°	8:26pm	262°	0.20
28	8:21am	95°	2:46pm	55.4°	9:02pm	268°	2.60

RISE/SET: Rise, transit and set times include NZ Daylight Saving Time where applicable. Times will vary depending on observer's location and altitude.

TRAN: When the Moon is due north.

AZI: Azimuth is the angle around the horizon measured clockwise from north (0° is north, 90° is east, 180° is south).

ALT: Angle measured from horizon to Moon at time of transit.

ILL: Fraction of lunar disk illuminated by the Sun (%).

* All times are local time for Auckland. Time is adjusted for DST when applicable. Dates are based on the Gregorian calendar. Illumination is calculated at lunar noon.



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