

MOON RISE and SET
2009
for Perth, Western Australia



PERTH OBSERVATORY

	date	RISE	az	SET	az
Jan	1	10 17	101	23 19	262
Jan	2	11 14	94	23 46	269
Jan	3	12 12	87	f 0 14	276
Jan	4	13 12	80	f 0 44	283
Jan	5	14 15	73	f 1 18	290
Jan	6	15 22	67	f 1 57	295
Jan	7	16 32	62	f 2 45	300
Jan	8	17 43	58	f 3 42	302
Jan	9	18 52	57	f 4 49	302
Jan	11	p19 53	59	6 02	299
Jan	12	p20 45	64	7 17	294
Jan	13	p21 29	70	8 30	287
Jan	14	p22 06	77	9 39	280
Jan	15	p22 39	84	10 45	272
Jan	16	p23 09	92	11 47	264
Jan	17	p23 39	99	12 48	257
Jan	18	0 09	106	13 47	251
Jan	19	0 40	111	14 46	246
Jan	20	1 15	116	15 45	242
Jan	21	1 54	120	16 42	239
Jan	22	2 38	122	17 35	238
Jan	23	3 28	122	18 24	238
Jan	24	4 21	121	19 09	240
Jan	25	5 18	119	19 48	244
Jan	26	6 16	114	20 23	248
Jan	27	7 14	109	20 54	254
Jan	28	8 11	103	21 23	260
Jan	29	9 09	97	21 50	267
Jan	30	10 07	90	22 18	274
Jan	31	11 06	82	22 47	281
Feb	1	12 07	75	23 18	287
Feb	2	13 11	69	23 54	293
Feb	3	14 17	64	f 0 37	298
Feb	4	15 26	59	f 1 28	302
Feb	5	16 33	58	f 2 28	303
Feb	6	17 36	58	f 3 37	301
Feb	7	18 31	61	f 4 50	297
Feb	8	19 18	66	f 6 03	291
Feb	10	p19 58	73	7 14	284
Feb	11	p20 34	80	8 23	276
Feb	12	p21 06	88	9 28	268
Feb	13	p21 36	96	10 31	261
Feb	14	p22 07	103	11 33	254
Feb	15	p22 39	109	12 34	248
Feb	16	p23 13	114	13 34	243

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Feb	17	p2351	118	1432	240	ds
Feb	18	034	121	1528	238	ds
Feb	19	121	122	1619	238	ds
Feb	20	213	122	1705	239	ds
Feb	21	309	120	1746	242	ds
Feb	22	406	116	1823	246	ds
Feb	23	505	111	1855	252	ds
Feb	24	603	106	1925	258	ds
Feb	25	701	99	1953	265	ds
Feb	26	800	92	2021	272	ds
Feb	27	859	85	2050	279	ds
Feb	28	1000	78	2121	285	ds
Mar	1	1104	71	2156	292	ds
Mar	2	1209	65	2236	297	ds
Mar	3	1317	61	2324	301	ds
Mar	4	1423	58	f 020	302	ds
Mar	5	1526	58	f 123	302	ds
Mar	6	1622	60	f 232	299	ds
Mar	7	1711	64	f 343	294	ds
Mar	8	1753	70	f 453	287	ds
Mar	9	1829	77	f 601	280	ds
Mar	10	1902	84	f 707	272	ds
Mar	12	p1933	92	812	264	ds
Mar	13	p2004	99	915	257	ds
Mar	14	p2035	106	1017	251	ds
Mar	15	p2109	112	1119	245	ds
Mar	16	p2146	117	1219	241	ds
Mar	17	p2228	120	1317	239	ds
Mar	18	p2314	122	1410	238	ds
Mar	19	005	122	1459	239	ds
Mar	20	059	121	1542	241	ds
Mar	21	155	118	1620	245	ds
Mar	22	253	113	1654	250	ds
Mar	23	351	108	1725	255	ds
Mar	24	449	102	1754	262	ds
Mar	25	548	95	1822	269	ds
Mar	26	647	88	1851	276	ds
Mar	27	749	80	1922	283	ds
Mar	28	853	73	1956	289	ds
Mar	29	859	67	1935	295	ds
Mar	30	1008	62	2022	299	ds
Mar	31	1116	59	2115	302	ds
Apr	1	1220	58	2217	302	ds
Apr	2	1318	59	2324	300	ds
Apr	3	1408	63	f 033	295	ds
Apr	4	1451	68	f 141	290	ds

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Apr	5	1528	74	f 2 48	283
Apr	6	1601	81	f 3 53	275
Apr	7	1632	89	f 4 56	268
Apr	8	1702	96	f 5 59	260
Apr	10	p17 33	103	7 01	254
Apr	11	p18 06	109	8 03	248
Apr	12	p18 42	114	9 05	243
Apr	13	p19 22	119	10 04	240
Apr	14	p20 07	121	11 00	238
Apr	15	p20 56	122	11 51	238
Apr	16	p21 49	121	12 36	240
Apr	17	p22 45	119	13 16	243
Apr	18	p23 42	115	13 51	248
Apr	19	0 39	110	14 23	253
Apr	20	1 36	104	14 53	259
Apr	21	2 34	98	15 21	266
Apr	22	3 33	91	15 50	273
Apr	23	4 33	84	16 20	280
Apr	24	5 36	76	16 53	287
Apr	25	6 43	70	17 31	293
Apr	26	7 52	64	18 15	298
Apr	27	9 02	60	19 08	301
Apr	28	10 10	58	20 08	302
Apr	29	11 11	59	21 15	300
Apr	30	12 05	62	22 25	297
May	1	12 50	66	23 34	291
May	2	13 29	72	f 0 41	285
May	3	14 03	79	f 1 46	277
May	4	14 34	86	f 2 48	270
May	5	15 04	94	f 3 50	263
May	6	15 34	101	f 4 51	256
May	7	16 06	107	f 5 52	250
May	8	16 40	113	f 6 53	245
May	10	p17 18	117	7 53	241
May	11	p18 01	120	8 50	239
May	12	p18 49	122	9 43	238
May	13	p19 41	121	10 30	240
May	14	p20 36	119	11 12	242
May	15	p21 32	116	11 49	246
May	16	p22 29	112	12 22	251
May	17	p23 25	106	12 52	257
May	18	0 22	100	13 20	263
May	19	1 19	94	13 48	270
May	20	2 17	87	14 17	277
May	21	3 18	80	14 48	284
May	22	4 22	73	15 23	290

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May	23	5 30	67	16 05	296
May	24	6 41	62	16 54	300
May	25	7 51	59	17 53	302
May	26	8 58	58	18 59	301
May	27	9 56	60	20 11	298
May	28	10 46	65	21 23	293
May	29	11 28	71	22 32	287
May	30	12 04	77	23 39	279
May	31	12 37	84	f 0 42	272
Jun	1	13 07	92	f 1 44	265
Jun	2	13 37	99	f 2 45	258
Jun	3	14 07	105	f 3 45	252
Jun	4	14 40	111	f 4 45	246
Jun	5	15 17	116	f 5 45	242
Jun	6	15 58	119	f 6 43	239
Jun	8	p16 44	121	7 37	238
Jun	9	p17 34	121	8 26	239
Jun	10	p18 28	120	9 10	241
Jun	11	p19 24	117	9 48	245
Jun	12	p20 21	113	10 22	249
Jun	13	p21 17	108	10 53	255
Jun	14	p22 13	102	11 21	261
Jun	15	p23 09	96	11 48	267
Jun	16	0 05	89	12 16	274
Jun	17	1 03	83	12 45	281
Jun	18	2 04	76	13 17	287
Jun	19	3 09	69	13 55	293
Jun	20	4 17	64	14 40	298
Jun	21	5 28	60	15 33	301
Jun	22	6 37	58	16 37	302
Jun	23	7 40	59	17 48	300
Jun	24	8 35	63	19 02	295
Jun	25	9 22	68	20 15	289
Jun	26	10 02	75	21 25	282
Jun	27	10 37	82	22 32	274
Jun	28	11 08	89	23 36	267
Jun	29	11 39	97	f 0 38	260
Jun	30	12 10	103	f 1 39	253
Jul	1	12 42	109	f 2 39	248
Jul	2	13 17	114	f 3 39	243
Jul	3	13 57	118	f 4 37	240
Jul	4	14 41	121	f 5 33	239
Jul	5	15 30	122	f 6 23	239
Jul	6	16 23	121	f 7 08	240
Jul	8	p17 18	118	7 48	244
Jul	9	p18 15	115	8 24	248

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Jul	10	p19 11	110	8 55	253
Jul	11	p20 07	104	9 24	259
Jul	12	p21 03	98	9 51	265
Jul	13	p21 58	92	10 18	272
Jul	14	p22 55	85	10 46	278
Jul	15	p23 53	78	11 16	285
Jul	16	054	72	11 50	291
Jul	17	1 59	66	12 30	296
Jul	18	3 07	62	13 18	300
Jul	19	4 15	59	14 15	302
Jul	20	5 20	58	15 22	301
Jul	21	6 19	60	16 35	298
Jul	22	7 11	65	17 50	293
Jul	23	7 54	71	19 03	286
Jul	24	8 32	78	20 14	278
Jul	25	9 06	86	21 21	270
Jul	26	9 38	94	22 26	262
Jul	27	10 10	101	23 29	255
Jul	28	10 42	107	f 0 31	249
Jul	29	11 17	113	f 1 32	244
Jul	30	11 56	117	f 2 31	241
Jul	31	12 38	120	f 3 28	239
Aug	1	13 26	122	f 4 20	238
Aug	2	14 18	121	f 5 07	240
Aug	3	15 12	119	f 5 48	242
Aug	4	16 09	116	f 6 25	246
Aug	6	p17 06	112	6 58	251
Aug	7	p18 02	106	7 27	257
Aug	8	p18 58	100	7 55	263
Aug	9	p19 53	94	8 22	270
Aug	10	p20 49	87	8 50	276
Aug	11	p21 47	80	9 19	283
Aug	12	p22 46	74	9 51	289
Aug	13	p23 48	68	10 27	294
Aug	14	053	63	11 11	299
Aug	15	1 59	60	12 02	301
Aug	16	3 04	58	13 03	302
Aug	17	4 04	59	14 11	300
Aug	18	4 58	62	15 24	296
Aug	19	5 44	68	16 37	289
Aug	20	6 25	74	17 49	282
Aug	21	7 01	82	18 59	274
Aug	22	7 35	90	20 06	266
Aug	23	8 07	97	21 12	259
Aug	24	8 40	105	22 17	252
Aug	25	9 15	111	23 20	246

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Aug	26	953	116	f 021	242
Aug	27	1035	119	f 120	239
Aug	28	1121	121	f 214	238
Aug	29	1212	121	f 303	239
Aug	30	1306	120	f 347	241
Aug	31	1402	117	f 425	245
Sep	1	1458	113	f 459	249
Sep	2	1555	108	f 530	255
Sep	3	1651	102	f 559	261
Sep	5	p1747	96	626	267
Sep	6	p1844	89	654	274
Sep	7	p1941	83	722	281
Sep	8	p2040	76	754	287
Sep	9	p2142	70	829	293
Sep	10	p2245	65	910	297
Sep	11	p2350	61	958	300
Sep	12	054	59	1054	302
Sep	13	155	59	1157	301
Sep	14	249	61	1306	297
Sep	15	337	65	1417	292
Sep	16	419	71	1528	286
Sep	17	456	78	1637	278
Sep	18	530	86	1745	270
Sep	19	603	94	1851	262
Sep	20	636	101	1957	255
Sep	21	711	108	2102	249
Sep	22	748	113	2206	244
Sep	23	829	118	2307	241
Sep	24	914	120	f 004	239
Sep	25	1004	121	f 056	239
Sep	26	1057	121	f 142	241
Sep	27	1153	118	f 223	244
Sep	28	1249	115	f 258	248
Sep	29	1346	110	f 330	253
Sep	30	1442	105	f 400	259
Oct	1	1538	98	f 428	265
Oct	2	1635	92	f 456	272
Oct	3	1732	85	f 524	278
Oct	5	p1831	78	555	285
Oct	6	p1933	72	630	291
Oct	7	p2037	66	710	296
Oct	8	p2143	62	756	299
Oct	9	p2247	59	850	301
Oct	10	p2349	59	951	301
Oct	11	045	60	1057	298
Oct	12	133	64	1206	294

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Oct	13	2 16	69	13 14	288
Oct	14	2 54	76	14 22	281
Oct	15	3 28	83	15 28	273
Oct	16	4 01	90	16 34	266
Oct	17	4 33	98	17 39	259
Oct	18	5 06	105	18 44	252
Oct	19	5 42	111	19 48	246
Oct	20	6 22	116	20 51	242
Oct	21	7 06	119	21 51	240
Oct	22	7 55	121	22 46	239
Oct	23	8 47	121	23 35	240
Oct	24	9 43	119	f 0 18	243
Oct	25	10 39	116	f 0 55	246
Oct	26	11 35	112	f 1 29	251
Oct	27	12 31	107	f 1 59	256
Oct	28	13 27	101	f 2 27	262
Oct	29	14 23	94	f 2 55	269
Oct	30	15 19	88	f 3 23	275
Oct	31	16 18	81	f 3 54	282
Nov	1	17 19	75	f 4 27	288
Nov	2	18 23	69	f 5 05	294
Nov	4	p19 29	64	5 50	298
Nov	5	p20 36	60	6 43	301
Nov	6	p21 41	59	7 43	301
Nov	7	p22 39	60	8 49	299
Nov	8	p23 31	63	9 58	295
Nov	9	0 16	68	11 07	290
Nov	10	0 54	74	12 14	283
Nov	11	1 29	81	13 19	276
Nov	12	2 01	88	14 23	268
Nov	13	2 33	95	15 27	261
Nov	14	3 05	102	16 30	254
Nov	15	3 39	108	17 34	248
Nov	16	4 17	114	18 37	244
Nov	17	4 59	118	19 38	241
Nov	18	5 46	120	20 35	239
Nov	19	6 37	121	21 27	240
Nov	20	7 32	120	22 12	242
Nov	21	8 28	117	22 52	245
Nov	22	9 25	113	23 27	249
Nov	23	10 21	109	23 58	254
Nov	24	11 16	103	f 0 27	260
Nov	25	12 11	97	f 0 54	266
Nov	26	13 06	91	f 1 22	273
Nov	27	14 03	84	f 1 50	279
Nov	28	15 01	77	f 2 22	285

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Nov	29	1604	71	f 2 58	291
Nov	30	1709	66	f 3 40	296
Dec	1	1817	62	f 4 30	300
Dec	3	p1924	59	5 28	301
Dec	4	p2027	59	6 34	300
Dec	5	p2123	62	7 45	297
Dec	6	p2212	66	8 56	291
Dec	7	p2254	72	10 06	285
Dec	8	p2330	79	11 13	278
Dec	9	004	86	12 17	270
Dec	10	035	93	13 20	263
Dec	11	107	100	14 23	256
Dec	12	140	107	15 25	250
Dec	13	216	112	16 27	245
Dec	14	256	116	17 28	242
Dec	15	340	119	18 26	240
Dec	16	429	121	19 20	239
Dec	17	523	120	20 07	241
Dec	18	619	118	20 49	244
Dec	19	716	115	21 26	248
Dec	20	812	110	21 58	252
Dec	21	907	105	22 27	258
Dec	22	1002	99	22 55	264
Dec	23	1056	93	23 22	270
Dec	24	1151	87	23 49	276
Dec	25	1247	80	f 0 19	283
Dec	26	1346	74	f 0 51	289
Dec	27	1448	68	f 1 29	294
Dec	28	1554	63	f 2 14	298
Dec	29	1701	60	f 3 08	301
Dec	30	1806	59	f 4 11	301
Dec	31	1907	60		

Note: Daylight saving has not been considered beyond mid-2009 because it is unclear whether the State's daylight saving trial will continue beyond this time.

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