

# GALAXY CORE AND ORION CONSTELLATION CALENDAR FOR NIGHTSCAPE PHOTOGRAPHY

Location: Perth (Lat: 31 57', Long: 115 51')

Legend: M = Moon Rising G = Galaxy Rising O = Orion Rising



- web: [www.stellaraustralis.com](http://www.stellaraustralis.com)  
 - Facebook: [www.facebook.com/stellaraustralis/](https://www.facebook.com/stellaraustralis/)  
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Disclaimer: whilst all care was taken in the creation of this chart, I cannot vouch for its complete accuracy. As with any such calendars, use it for planning and double check the night using planetarium software.  
 Acknowledgements: data sourced from the US Naval Observatory (USNO).

From: 2022-12-08 Day Calc 0 Day Offset 341

m = Moon Setting g = Galaxy Setting o = Orion Setting

NOTES	EVENING																								MORNING		REFERENCE TIMES																	
	Date	Moon	Evening Chart												Morning Chart										Moon	Date	Sun		Astro Dark		Moon		Galaxy Core			Orion								
	Evening of	% Illum	12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	9	10	11	% Illum	Morning of	Rise	Set	Start	End	Rise	Set	Rise	Zenith	Set	Rise	Zenith	Set				
	2023-01-01	67%			M																					76%	2023-01-02	05:15	19:27	21:06	03:35	14:29	01:33	03:48	11:02	18:21	17:47	23:30	04:23					
	2023-01-02	76%				M																				84%	2023-01-03	05:16	19:27	21:06	03:36	15:29	02:06	03:44	10:58	18:17	17:43	23:26	04:19					
	2023-01-03	84%					M																			90%	2023-01-04	05:16	19:27	21:06	03:37	16:29	02:44	03:40	10:54	18:13	17:39	23:22	04:15					
	2023-01-04	90%						M	O	g																95%	2023-01-05	05:17	19:27	21:06	03:38	17:28	03:26	03:36	10:50	18:09	17:35	23:18	04:11					
	2023-01-05	95%							O	M	g															98%	2023-01-06	05:18	19:27	21:06	03:39	18:25	04:14	03:32	10:46	18:05	17:31	23:14	04:07					
	2023-01-06	98%							O	g	M															100%	2023-01-07	05:19	19:27	21:06	03:40	19:17	05:06	03:28	10:42	18:01	17:27	23:10	04:03					
	2023-01-07	100%									M															99%	2023-01-08	05:20	19:28	21:06	03:41	20:04	06:02	03:24	10:38	17:57	17:23	23:06	03:59					
	2023-01-08	99%										M														97%	2023-01-09	05:20	19:28	21:06	03:42	20:45	6:59	03:20	10:34	17:53	17:19	23:02	03:55					
	2023-01-09	97%											M													93%	2023-01-10	05:21	19:28	21:06	03:43	21:21	07:57	03:16	10:30	17:49	17:15	22:58	03:51					
	2023-01-10	93%												M												88%	2023-01-11	05:22	19:27	21:05	03:44	21:53	08:53	03:12	10:26	17:45	17:11	22:54	03:47					
	2023-01-11	88%													M											81%	2023-01-12	05:23	19:27	21:05	03:45	22:21	09:49	03:08	10:22	17:41	17:07	22:50	03:43					
	2023-01-12	81%														M										73%	2023-01-13	05:24	19:27	21:05	03:47	22:48	10:45	03:04	10:18	17:37	17:03	22:46	03:39					
	2023-01-13	73%															M									64%	2023-01-14	05:25	19:27	21:04	03:48	23:14	11:41	03:00	10:14	17:33	16:59	22:42	03:35					
	2023-01-14	64%																M									54%	2023-01-15	05:26	19:27	21:04	03:49	23:41	---	02:56	10:10	17:29	16:55	22:38	03:31				
	2023-01-15	54%	m																M									44%	2023-01-16	05:27	19:27	21:03	03:50	00:10	12:40	02:52	10:06	17:25	16:51	22:34	03:27			
	2023-01-16	44%		m																M									34%	2023-01-17	05:28	19:27	21:03	03:51	00:43	13:42	02:48	10:02	17:21	16:47	22:30	03:23		
	2023-01-17	34%			m																M									24%	2023-01-18	05:28	19:26	21:02	03:52	01:22	14:47	02:44	09:58	17:17	16:43	22:26	03:19	
	2023-01-18	24%				m																M									15%	2023-01-19	05:29	19:26	21:02	03:54	02:09	15:57	02:40	09:54	17:13	16:39	22:22	03:15
	2023-01-19	15%					O	m	g																	7%	2023-01-20	05:30	19:26	21:01	03:55	03:07	17:08	02:36	09:50	17:09	16:35	22:18	03:11					
	2023-01-20	7%						O	g	m																2%	2023-01-21	05:31	19:26	21:01	03:56	04:15	18:16	02:32	09:46	17:05	16:31	22:14	03:07					
	2023-01-21	2%							O	g																0%	2023-01-22	05:32	19:25	21:00	03:57	05:29	19:18	02:28	09:42	17:01	16:27	22:10	03:03					
	2023-01-22	0%								O	g															1%	2023-01-23	05:33	19:25	20:59	03:59	06:46	20:10	02:24	09:38	16:57	16:23	22:06	02:59					
	2023-01-23	1%									O	g														5%	2023-01-24	05:34	19:24	20:59	04:00	08:00	20:54	02:20	09:34	16:53	16:19	22:02	02:55					
	2023-01-24	5%										O	g													12%	2023-01-25	05:35	19:24	20:58	04:01	9:10	21:31	02:16	09:30	16:49	16:15	21:58	02:51					
	2023-01-25	12%											O	g												20%	2023-01-26	05:36	19:23	20:57	04:02	10:16	22:04	02:12	09:26	16:45	16:11	21:54	02:47					
	2023-01-26	20%												O	g											30%	2023-01-27	05:37	19:23	20:56	04:04	11:19	22:34	02:08	09:22	16:41	16:07	21:50	02:43					
	2023-01-27	30%													O	g										40%	2023-01-28	05:38	19:22	20:55	04:05	---	23:04	02:04	09:18	16:37	16:03	21:46	02:39					
	2023-01-28	40%	M													O	g									50%	2023-01-29	05:39	19:22	20:55	04:06	12:21	23:34	02:00	09:14	16:33	15:59	21:42	02:35					
	2023-01-29	50%		M														O	g								60%	2023-01-30	05:40	19:21	20:54	04:07	13:23	00:07	01:56	09:10	16:29	15:55	21:38	02:31				
	2023-01-30	60%			M																					70%	2023-01-31	05:41	19:21	20:53	04:09	14:23	00:43	01:52	09:06	16:25	15:51	21:34	02:27					
	2023-01-31	70%				M																				78%	2023-02-01	05:42	19:20	20:52	04:10	15:23	01:24	01:48	09:02	16:21	15:47	21:30	02:23					
	2023-02-01	78%					O	M	g																	86%	2023-02-02	05:43	19:19	20:51	04:11	16:20	02:10	01:44	08:58	16:17	15:43	21:26	02:19					
	2023-02-02	86%						O	g	M																92%	2023-02-03	05:44	19:19	20:50	04:12	17:14	03:01	01:40	08:54	16:13	15:39	21:22	02:15					
	2023-02-03	92%							O	g		M														96%	2023-02-04	05:44	19:18	20:49	04:14	18:02	03:56	01:36	08:50	16:09	15:35	21:18	02:11					
	2023-02-04	96%								O	g			M												99%	2023-02-05	05:45	19:17	20:48	04:15	18:45	04:53	01:32	08:46	16:05	15:31	21:14	02:07					
	2023-02-05	99%									O	g				M										100%	2023-02-06	05:46	19:17	20:47	04:16	19:22	05:51	01:28	08:42	16:01	15:27	21:10	02:03					
	2023-02-06	100%										O	g					M								99%	2023-02-07	05:47	19:16	20:46	04:17	19:55	6:48	01:24	08:38	15:57	15:23	21:06	01:59					
	2023-02-07	99%											O	g												97%	2023-02-08	05:48	19:15	20:45	04:19	20:24	07:44	01:20	08:34	15:53	15:19	21:02	01:55					
	2023-02-08	97%												O	g											92%	2023-02-09	05:49	19:14	20:43	04:20	20:52	08:40	01:16	08:30	15:49	15:15	20:58	01:51					
	2023-02-09	92%													O	g										87%	2023-02-10	05:50	19:13	20:42	04:21	21:18	09:36	01:12	08:26	15:45	15:11	20:5						















