

# 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


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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: 2022-03-19

Day Calc 77

Day Offset 77

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						
			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	Rise	Set	Start	End	Rise	Set	Rise	Zenith	Set	Rise	Zenith	Set	
	2022-03-19	99%	g											M											O				95%	2022-03-20	05:43	17:52	19:13	04:23	19:02	08:05	22:03	05:13	12:32	11:54	17:41	22:38
	2022-03-20	95%	g											M											O				89%	2022-03-21	05:44	17:51	19:11	04:24	19:36	09:11	21:59	05:09	12:28	11:50	17:37	22:34
	2022-03-21	89%	g											M											O				81%	2022-03-22	05:45	17:50	19:10	04:24	20:13	10:20	21:55	05:05	12:24	11:46	17:33	22:30
	2022-03-22	81%	g											M											O				71%	2022-03-23	05:45	17:48	19:09	04:25	20:56	11:29	21:51	05:01	12:20	11:42	17:29	22:26
	2022-03-23	71%	g											M											O				60%	2022-03-24	05:46	17:47	19:07	04:26	21:46	---	21:47	04:57	12:16	11:38	17:25	22:22
	2022-03-24	60%	g											M											O				49%	2022-03-25	05:47	17:46	19:06	04:26	22:43	12:36	21:43	04:53	12:12	11:34	17:21	22:18
	2022-03-25	49%	g											M											O				38%	2022-03-26	05:47	17:45	19:05	04:27	23:46	13:39	21:39	04:49	12:08	11:30	17:17	22:14
	2022-03-26	38%	g											M											O				27%	2022-03-27	05:48	17:43	19:04	04:28	00:53	14:34	21:35	04:45	12:04	11:26	17:13	22:10
	2022-03-27	27%	g											M											O				18%	2022-03-28	05:49	17:42	19:02	04:28	02:01	15:22	21:31	04:41	12:00	11:22	17:09	22:06
	2022-03-28	18%	g											M											O				10%	2022-03-29	05:49	17:41	19:01	04:29	03:07	16:02	21:27	04:37	11:52	11:18	17:05	22:02
	2022-03-29	10%	g											M											O				4%	2022-03-30	05:50	17:40	19:00	04:30	04:11	16:38	21:23	04:33	11:48	11:14	17:01	21:58
	2022-03-30	4%	g											M											O				1%	2022-03-31	05:51	17:38	18:58	04:30	05:12	17:10	21:19	04:29	11:44	11:10	16:57	21:54
	2022-03-31	1%	g											M											O				0%	2022-04-01	05:51	17:37	18:57	04:31	06:12	17:40	21:15	04:25	11:40	11:06	16:53	21:50
	2022-04-01	0%	g											M											O				1%	2022-04-02	05:52	17:36	18:56	04:32	07:10	18:09	21:11	04:21	11:36	11:02	16:49	21:46
	2022-04-02	1%	g											M											O				5%	2022-04-03	05:52	17:35	18:55	04:32	08:09	18:39	21:07	04:17	11:32	10:58	16:45	21:42
	2022-04-03	5%	g											M											O				9%	2022-04-04	05:53	17:33	18:54	04:33	09:07	19:10	21:03	04:13	11:28	10:54	16:41	21:38
	2022-04-04	9%	g											M											O				16%	2022-04-05	05:54	17:32	18:52	04:33	10:05	19:45	20:59	04:09	11:24	10:50	16:37	21:34
	2022-04-05	16%	g											M											O				24%	2022-04-06	05:54	17:31	18:51	04:34	11:02	20:23	20:55	04:05	11:20	10:46	16:33	21:30
	2022-04-06	24%	g											M											O				32%	2022-04-07	05:55	17:30	18:50	04:35	11:56	21:06	20:51	04:01	11:16	10:42	16:29	21:26
	2022-04-07	32%	g											M											O				41%	2022-04-08	05:56	17:29	18:49	04:35	---	21:54	20:47	03:57	11:12	10:38	16:25	21:22
	2022-04-08	41%	g											M											O				51%	2022-04-09	05:56	17:27	18:48	04:36	12:47	22:47	20:43	03:53	11:08	10:34	16:21	21:18
	2022-04-09	51%	g											M											O				60%	2022-04-10	05:57	17:26	18:47	04:37	13:34	23:43	20:39	03:49	11:04	10:30	16:17	21:14
	2022-04-10	60%	g											M											O				69%	2022-04-11	05:58	17:25	18:45	04:37	14:15	00:42	20:35	03:45	11:00	10:26	16:13	21:10
	2022-04-11	69%	g											M											O				78%	2022-04-12	05:58	17:24	18:44	04:38	14:53	01:41	20:31	03:41	10:56	10:22	16:09	21:06
	2022-04-12	78%	g											M											O				86%	2022-04-13	05:59	17:23	18:43	04:38	15:27	02:41	20:27	03:37	10:52	10:18	16:05	21:02
	2022-04-13	86%	g											M											O				93%	2022-04-14	05:59	17:22	18:42	04:39	15:58	03:42	20:23	03:33	10:48	10:14	16:01	20:58
	2022-04-14	93%	g											M											O				97%	2022-04-15	06:00	17:21	18:41	04:39	16:29	04:45	20:19	03:29	10:44	10:10	15:57	20:54
	2022-04-15	97%	g											M											O				100%	2022-04-16	06:01	17:19	18:40	04:40	17:00	05:49	20:15	03:25	10:40	10:06	15:53	20:50
	2022-04-16	100%	g											M											O				100%	2022-04-17	06:01	17:18	18:39	04:41	17:33	06:56	20:11	03:21	10:36	10:02	15:49	20:46
	2022-04-17	100%	g											M											O				97%	2022-04-18	06:02	17:17	18:38	04:41	18:09	08:05	20:07	03:17	10:32	09:58	15:45	20:42
	2022-04-18	97%	g											M											O				91%	2022-04-19	06:03	17:16	18:37	04:42	18:51	09:17	20:03	03:13	10:28	09:54	15:41	20:38
	2022-04-19	91%	g											M											O				84%	2022-04-20	06:03	17:15	18:36	04:42	19:40	10:27	19:59	03:09	10:24	09:50	15:37	20:34
	2022-04-20	84%	g											M											O				74%	2022-04-21	06:04	17:14	18:35	04:43	20:36	11:33	19:55	03:05	10:20	09:46	15:33	20:30
	2022-04-21	74%	g											M											O				63%	2022-04-22	06:05	17:13	18:34	04:43	21:39	---	19:51	03:01	10:16	09:42	15:29	20:26
	2022-04-22	63%	g											M											O				52%	2022-04-23	06:05	17:12	18:33	04:44	22:45	12:32	19:47	02:57	10:12	09:38	15:25	20:22
	2022-04-23	52%	g											M											O				41%	2022-04-24	06:06	17:11	18:32	04:45	23:53	13:21	19:43	02:53	10:08	09:34	15:21	20:18
	2022-04-24	41%	g											M											O				30%	2022-04-25	06:07	17:10	18:31	04:45	00:59	14:04	19:39	02:49	10:04	09:30	15:17	20:14
	2022-04-25	30%	g											M											O				21%	2022-04-26	06:07	17:09	18:30	04:46	02:03	14:40	19:35	02:45	10:00	09:26	15:13	20:10
	2022-04-26	21%	g											M											O				13%	2022-04-27	06:08	17:08	18:29	04:46	03:03	15:12	19:31	02:41	09:56	09:22	15:09	20:06
	2022-04-27	13%	g											M											O				7%	2022-04-28	06:09	17:07	18:29	04:47	04:02	15:42	19:27	02:37	09:52	09:18	15:05	20:02
	2022-04-28	7%	g											M											O				2%	2022-04-29	06:09	17:06	18:28	04:47	05:00	16:10	19:23	02:33	09:48	09:14	15:01	19:58
	2022-04-29	2%	g											M											O				0%	2022-04-30	06:10	17:05	18:27	04:48	05:58	16:39	19:19	02:29	09:44	09:10	14:57	19:54
	2022-04-30	0%	g											M											O				0%	2022-05-01	06:11	17:04	18:26	04:48	06:56	17:10	19:15	02:25	09:40	09:06	14:53	19:50
	2022-05-01	0%	g											M											O				2%	2022-05-02	06:11	17:03	18:25	04:49	07:55	17:43	19:11	02:21	09:36	09:02	14:49	19:46
	2022-05-02	2%	g											M											O				6%	2022-05-03	06:12	17:02	18:25	04:50	08:52	18:20	19:07	02:17	09:32	08:58	14:45	19:42
	2022-05-03	6%	g											M											O				11%	2022-05-04	06:13	17:01	18:24	04:50	09:48	19:01	19:03	02:13	09:28	08:54	14:41	19:38
	2022-05-04	11%	g											M											O				18%	2022-05-05	06:13	17:01	18:23	04:51	10:40	19:47	18:59	02:09	09:24	08:50	14:37	19:34
	2022-05-05	18%	g											M											O				25%	2022-05-06	06:14	17:00	18:22	04:51	11:28	20:38	18:55	02:05	09:20	08:46	14:33	19:30
	2022-05-06	25%	g											M											O				34%	2022-05-07	06:15	16:59	18:22	04:52	---	21:33	18:51	02:01	09:16	08:42	14:29	19:26
	2022-05-07	34%	g											M											O				44%	2022-05-08	06:15	16:58	18:21	04:52	12:11	22:29	18:47	01:57	09:12	08:38	14:25	19:22
	2022-05-08	44%	g											M											O				53%	2022-05-09	06:16	16:57	18:20	04:53	12:50	23:28	18:43	01:53	09:08	08:34	14:21	19:18
	2022-05-09	53%	g											M											O				63%	2022-05-10	06:17	16:57	18:									

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



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Calendar grid with columns for Date, Moon illumination, Evening Chart (hours 12-23), Morning Chart (hours 0-11), Morning Date, and Reference Times (Sun, Astro Dark, Moon, Galaxy Core, Orion) for each date from 2022-05-11 to 2022-07-03.



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



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NOTES	EVENING																								MORNING		REFERENCE TIMES											
	Date	Moon	Evening Chart												Morning Chart										Moon	Date	Sun		Astro Dark		Moon		Galaxy Core			Orion		
			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
Add Notes Here	Evening of	% illum																							% illum	Morning of	Rise	Set	Start	End	Rise	Set	Rise	Zenith	Set	Rise	Zenith	Set
	2022-08-25	4%	o																							2022-08-26	06:03	17:20	18:41	04:42	06:01	15:57	11:23	18:41	01:52	01:18	07:01	12:02

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



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Main table with columns for Date, Moon, Evening Chart (hours 12-23), Morning Chart (hours 0-11), Moon, Date, Morning, and Reference Times (Sun, Astro Dark, Moon, Galaxy Core, Orion). Includes a 'NOTES' section on the left.

# GALAXY CORE AND ORION CONSTELLATION CALENDAR FOR NIGHTSCAPE PHOTOGRAPHY

Location: Perth (Lat: 31 57', Long: 115 51')  
 From: 2022-03-19 Day Calc 77 Day Offset 77

Legend: M = Moon Rising G = Galaxy Rising O = Orion Rising  
 m = Moon Setting g = Galaxy Setting o = Orion Setting



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NOTES Add Notes Here	EVENING																																		MORNING			REFERENCE TIMES																																														
	Date	Moon % Illum	Evening Chart																		Morning Chart											Moon % Illum	Date	Sun		Astro Dark		Moon		Galaxy Core			Orion																																									
			12	13	14	15	16	17	18	19	20	21	22	23	0	1	2	3	4	5	6	7	8	9	10	11	Rise	Set	Start	End	Rise			Set	Rise	Zenith	Set	Rise	Zenith	Set																																												
	2022-12-09	99%																																																																							04:29	18:36	20:13	02:52	20:24	06:19	04:19	11:33	18:52	18:18	---	04:54

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



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Main table with columns: NOTES, EVENING (Date, Moon, Evening Chart), MORNING (Moon, Date), and REFERENCE TIMES (Sun, Astro Dark, Moon, Galaxy Core, Orion). Rows represent dates from 2023-01-31 to 2023-03-18.