

# Mond- und Dämmerungstabelle 2025

für die visuelle Deep-Sky-Beobachtung

Coburg 50.2667° N 10.9667° E

Berechnung: pyEphem  
Textsatz: L<sup>A</sup>T<sub>E</sub>X

## Atmosphären-Einstellungen in pyEphem

Standort.pressure = 1010.0  
Standort.horizon = '0:00:00.0'

Alle Zeitangaben beziehen sich auf den in der jeweiligen Zeile angegeben Kalendertag. Liegt ein Ereignis bereits nach Mitternacht, also schon am Folgetag, ist die Zeitangabe mit einem \* gekennzeichnet, z.B.: 00:20\*.

**Spalte 1** Kalendertag.

**Spalte 2** Bei »MESZ« sind alle Zeitangaben in dieser Zeile in Mitteleuropäischer Sommerzeit, ansonsten standardmäßig in MEZ.

**Spalte 3** Die für Deep-Sky-Beobachtungen nutzbare Zeitspanne: Es ist astronomisch dunkel (Sonne steht tiefer als  $-18^\circ$ ) und kein Mond stört.

**Spalte 4** Dauer der für Deep-Sky-Beobachtungen nutzbaren Zeitspanne.

**Spalte 5** Ereignisse, die die für Deep-Sky-Beobachtungen nutzbare Zeitspanne begrenzen: AN<sub>+</sub> (Einbruch der astronomischen Nacht = Ende der astr. Abenddämmerung), M<sub>v</sub> (Monduntergang), AN<sub>-</sub> (Ende der astronomischen Nacht = Beginn der astr. Morgendämmerung), M<sub>7</sub>

(Mondaufgang), Astr. MD (Astronomische Mitternachtsdämmerung), Naut. MD (Nautische Mitternachtsdämmerung).

**Spalte 6** Mondphase.

**Spalte 7** Mondaufgang.

**Spalte 8** Monduntergang.

**Spalte 9** Beginn der astr. Morgendämmerung (Sonnenhöhe =  $-18^\circ$ ).

**Spalte 10** Dauer der astr. Morgendämmerung.

**Spalte 11** Beginn der naut. Morgendämmerung (Sonnenhöhe =  $-12^\circ$ ).

**Spalte 12** Dauer der naut. Morgendämmerung.

**Spalte 13** Beginn der bürg. Morgendämmerung (Sonnenhöhe =  $-6^\circ$ ).

**Spalte 14** Dauer der bürg. Morgendämmerung.

**Spalte 15** Sonnenaufgang.

**Spalte 16** Taglänge.

**Spalte 17** Sonnenuntergang.

**Spalte 18** Dauer der bürg. Abenddämmerung.

**Spalte 19** Ende der bürg. Abenddämmerung (Sonnenhöhe =  $-6^\circ$ ).

**Spalte 20** Dauer der naut. Abenddämmerung.

**Spalte 21** Ende der naut. Abenddämmerung (Sonnenhöhe =  $-12^\circ$ ).

**Spalte 22** Dauer der astr. Abenddämmerung.

**Spalte 23** Ende der astr. Abenddämmerung (Sonnenhöhe =  $-18^\circ$ ).

**Spalte 24** Länge der Nacht.

**Spalte 25** Länge der astr. Nacht.

**Für Beobachter, die zu Zeiten der Mitternachtsdämmerung während der astr. Dämmerung beobachten möchten:**

**Spalte 26** Nutzbare Zeitspanne: Es ist »nautisch dunkel« (Sonne steht tiefer als  $-12^\circ$ ) und kein Mond stört.

**Spalte 27** Dauer der in Spalte 26 angegebenen Zeitspanne.

**Spalte 28** Ereignisse, die die nutzbare Zeitspanne begrenzen: ND<sub>+</sub> (Beginn der »naut. Dunkelheit« = Ende der naut. Abenddämmerung), M<sub>v</sub> (Monduntergang), ND<sub>-</sub> (Ende der »naut. Dunkelheit« = Beginn der naut. Morgendämmerung), M<sub>7</sub> (Mondaufgang), Naut. MD (Nautische Mitternachtsdämmerung).

**Spalte 29** Identisch zu Spalte 1.

Table with 29 columns (Day, Zeitzone, Astronomical twilight, Moon phase, Dawn, Sunrise, Sunset, Evening twilight, Night, Astronomical twilight) and 49 rows (Jan 1 - Feb 19). It details daily twilight and moon data for Coburg in 2025.









1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	
2025	Zeit- zone	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung						Sonne				Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond			2025	
		$\Delta t$			Ph.	$\uparrow$	$\searrow$	Astr.	$\Delta t$	Naut.	$\Delta t$	Bürg.	$\Delta t$	$\uparrow$	$\Delta t$	$\searrow$	$\Delta t$	Bürg.	$\Delta t$	Naut.	$\Delta t$	Astr.	$\Delta t$	$\Delta t$		$\Delta t$			
So, 20. Jul	MESZ	00:28*–01:13*	44m	AN <sub>+</sub> bis M <sub>7</sub>		00:39	17:41	02:11	1h 35m	03:46	56m	04:43	44m	05:28	15h 47m	21:16	44m	22:00	56m	22:56	1h 31m	00:28*	8h 13m	1h 48m					So, 20. Jul
Mo, 21. Jul	MESZ	00:23*–02:01*	1h 38m	AN <sub>+</sub> bis M <sub>7</sub>		01:13	19:03	02:16	1h 31m	03:48	56m	04:45	44m	05:29	15h 45m	21:14	43m	21:58	55m	22:54	1h 28m	00:23*	8h 15m	1h 58m					Mo, 21. Jul
Di, 22. Jul	MESZ	00:18*–02:26*	2h 07m	AN <sub>+</sub> bis AN <sub>-</sub>		02:01	20:09	02:22	1h 28m	03:50	55m	04:46	43m	05:30	15h 42m	21:13	43m	21:57	55m	22:52	1h 26m	00:18*	8h 18m	2h 07m					Di, 22. Jul
Mi, 23. Jul	MESZ	00:14*–02:31*	2h 16m	AN <sub>+</sub> bis AN <sub>-</sub>		03:07	20:57	02:26	1h 26m	03:52	55m	04:48	43m	05:32	15h 40m	21:12	43m	21:55	54m	22:50	1h 23m	00:14*	8h 20m	2h 16m					Mi, 23. Jul
Do, 24. Jul	MESZ	00:10*–02:35*	2h 25m	AN <sub>+</sub> bis AN <sub>-</sub>	●	04:26	21:31	02:31	1h 23m	03:54	54m	04:49	43m	05:33	15h 37m	21:11	43m	21:54	54m	22:48	1h 21m	00:10*	8h 23m	2h 25m					Do, 24. Jul
Fr, 25. Jul	MESZ	00:05*–02:39*	2h 34m	AN <sub>+</sub> bis AN <sub>-</sub>		05:50	21:54	02:35	1h 21m	03:57	54m	04:51	43m	05:34	15h 35m	21:09	42m	21:52	53m	22:46	1h 19m	00:05*	8h 26m	2h 34m					Fr, 25. Jul
Sa, 26. Jul	MESZ	00:01*–02:43*	2h 42m	AN <sub>+</sub> bis AN <sub>-</sub>		07:13	22:11	02:39	1h 19m	03:59	53m	04:53	43m	05:36	15h 32m	21:08	42m	21:51	53m	22:44	1h 17m	00:01*	8h 28m	2h 42m					Sa, 26. Jul
So, 27. Jul	MESZ	23:57–02:47*	2h 50m	AN <sub>+</sub> bis AN <sub>-</sub>		08:32	22:25	02:43	1h 17m	04:01	53m	04:54	42m	05:37	15h 29m	21:07	42m	21:49	52m	22:42	1h 15m	23:57	8h 31m	2h 50m					So, 27. Jul
Mo, 28. Jul	MESZ	23:54–02:51*	2h 57m	AN <sub>+</sub> bis AN <sub>-</sub>		09:47	22:37	02:47	1h 15m	04:03	52m	04:56	42m	05:38	15h 26m	21:05	42m	21:47	52m	22:40	1h 13m	23:54	8h 34m	2h 57m					Mo, 28. Jul
Di, 29. Jul	MESZ	23:50–02:55*	3h 05m	AN <sub>+</sub> bis AN <sub>-</sub>		10:59	22:48	02:51	1h 13m	04:05	52m	04:57	42m	05:40	15h 24m	21:04	42m	21:46	51m	22:38	1h 12m	23:50	8h 37m	3h 05m					Di, 29. Jul
Mi, 30. Jul	MESZ	23:46–02:59*	3h 12m	AN <sub>+</sub> bis AN <sub>-</sub>		12:10	22:59	02:55	1h 12m	04:07	51m	04:59	42m	05:41	15h 21m	21:02	41m	21:44	51m	22:36	1h 10m	23:46	8h 40m	3h 12m					Mi, 30. Jul
Do, 31. Jul	MESZ	23:42–03:02*	3h 19m	AN <sub>+</sub> bis AN <sub>-</sub>		13:21	23:13	02:59	1h 10m	04:09	51m	05:01	41m	05:42	15h 18m	21:01	41m	21:42	51m	22:33	1h 09m	23:42	8h 43m	3h 19m					Do, 31. Jul
Fr, 1. Aug	MESZ	23:39–03:06*	3h 26m	AN <sub>+</sub> bis AN <sub>-</sub>	☾	14:32	23:29	03:02	1h 09m	04:11	51m	05:02	41m	05:44	15h 15m	20:59	41m	21:41	50m	22:31	1h 07m	23:39	8h 46m	3h 26m					Fr, 1. Aug
Sa, 2. Aug	MESZ	23:49–03:09*	3h 19m	M <sub>7</sub> bis AN <sub>-</sub>		15:44	23:49	03:06	1h 07m	04:13	50m	05:04	41m	05:45	15h 12m	20:58	41m	21:39	50m	22:29	1h 06m	23:35	8h 49m	3h 33m					Sa, 2. Aug
So, 3. Aug	MESZ	00:17*–03:12*	2h 54m	M <sub>7</sub> bis AN <sub>-</sub>		16:56	—:—	03:09	1h 06m	04:15	50m	05:06	41m	05:47	15h 09m	20:56	40m	21:37	49m	22:27	1h 05m	23:32	8h 52m	3h 40m					So, 3. Aug
Mo, 4. Aug	MESZ	00:57*–03:16*	2h 19m	M <sub>7</sub> bis AN <sub>-</sub>		18:03	00:17	03:12	1h 05m	04:18	49m	05:07	40m	05:48	15h 06m	20:54	40m	21:35	49m	22:24	1h 03m	23:28	8h 55m	3h 47m					Mo, 4. Aug
Di, 5. Aug	MESZ	01:50*–03:19*	1h 29m	M <sub>7</sub> bis AN <sub>-</sub>		19:01	00:57	03:16	1h 03m	04:20	49m	05:09	40m	05:50	15h 03m	20:53	40m	21:33	48m	22:22	1h 02m	23:25	8h 58m	3h 54m					Di, 5. Aug
Mi, 6. Aug	MESZ	02:57*–03:22*	25m	M <sub>7</sub> bis AN <sub>-</sub>		19:48	01:50	03:19	1h 02m	04:22	48m	05:11	40m	05:51	14h 59m	20:51	40m	21:31	48m	22:20	1h 01m	23:21	9h 01m	4h 00m					Mi, 6. Aug
Do, 7. Aug	MESZ	—:—:—:—	–	Mond stört		20:23	02:57	03:22	1h 01m	04:24	48m	05:12	40m	05:53	14h 56m	20:49	40m	21:29	48m	22:17	1h 00m	23:18	9h 04m	4h 07m					Do, 7. Aug
Fr, 8. Aug	MESZ	—:—:—:—	–	Mond stört		20:48	04:14	03:25	1h 00m	04:26	48m	05:14	40m	05:54	14h 53m	20:48	39m	21:27	47m	22:15	59m	23:15	9h 07m	4h 13m					Fr, 8. Aug
Sa, 9. Aug	MESZ	—:—:~:~:~	–	Mond stört	☉	21:08	05:36	03:28	59m	04:28	47m	05:16	39m	05:56	14h 50m	20:46	39m	21:25	47m	22:13	58m	23:11	9h 11m	4h 19m					Sa, 9. Aug
So, 10. Aug	MESZ	—:~:~:~:~	–	Mond stört		21:23	06:59	03:31	58m	04:30	47m	05:17	39m	05:57	14h 46m	20:44	39m	21:23	46m	22:10	57m	23:08	9h 14m	4h 25m					So, 10. Aug
Mo, 11. Aug	MESZ	—:~:~:~:~	–	Mond stört		21:37	08:22	03:34	57m	04:32	46m	05:19	39m	05:58	14h 43m	20:42	39m	21:21	46m	22:08	57m	23:05	9h 17m	4h 32m					Mo, 11. Aug
Di, 12. Aug	MESZ	—:~:~:~:~	–	Mond stört		21:51	09:44	03:37	57m	04:34	46m	05:21	39m	06:00	14h 40m	20:40	39m	21:19	46m	22:06	56m	23:02	9h 21m	4h 38m					Di, 12. Aug
Mi, 13. Aug	MESZ	—:~:~:~:~	–	Mond stört		22:05	11:08	03:40	56m	04:36	46m	05:22	39m	06:01	14h 36m	20:38	38m	21:17	45m	22:03	55m	22:59	9h 24m	4h 44m					Mi, 13. Aug
Do, 14. Aug	MESZ	—:~:~:~:~	–	Mond stört		22:22	12:33	03:43	55m	04:38	45m	05:24	38m	06:03	14h 33m	20:37	38m	21:15	45m	22:01	54m	22:55	9h 27m	4h 50m					Do, 14. Aug
Fr, 15. Aug	MESZ	—:~:~:~:~	–	Mond stört		22:43	14:00	03:46	54m	04:40	45m	05:26	38m	06:04	14h 30m	20:35	38m	21:13	45m	21:58	53m	22:52	9h 31m	4h 56m					Fr, 15. Aug
Sa, 16. Aug	MESZ	22:49–23:13	23m	AN <sub>+</sub> bis M <sub>7</sub>	☾	23:13	15:28	03:48	54m	04:42	45m	05:27	38m	06:06	14h 26m	20:33	38m	21:11	44m	21:56	53m	22:49	9h 34m	5h 01m					Sa, 16. Aug
So, 17. Aug	MESZ	22:46–23:55	1h 08m	AN <sub>+</sub> bis M <sub>7</sub>		23:55	16:51	03:51	53m	04:44	44m	05:29	38m	06:07	14h 23m	20:31	38m	21:09	44m	21:53	52m	22:46	9h 38m	5h 07m					So, 17. Aug
Mo, 18. Aug	MESZ	22:43–00:53*	2h 10m	AN <sub>+</sub> bis M <sub>7</sub>		—:—	18:01	03:54	52m	04:46	44m	05:31	38m	06:09	14h 19m	20:29	37m	21:07	44m	21:51	51m	22:43	9h 41m	5h 13m					Mo, 18. Aug
Di, 19. Aug	MESZ	22:40–02:07*	3h 26m	AN <sub>+</sub> bis M <sub>7</sub>		00:53	18:55	03:56	52m	04:48	44m	05:32	37m	06:10	14h 16m	20:27	37m	21:05	43m	21:49	51m	22:40	9h 45m	5h 19m					Di, 19. Aug
Mi, 20. Aug	MESZ	22:37–03:28*	4h 51m	AN <sub>+</sub> bis M <sub>7</sub>		02:07	19:32	03:59	51m	04:50	43m	05:34	37m	06:12	14h 12m	20:25	37m	21:03	43m	21:46	50m	22:37	9h 48m	5h 24m					Mi, 20. Aug
Do, 21. Aug	MESZ	22:34–04:04*	5h 30m	AN <sub>+</sub> bis AN <sub>-</sub>		03:28	19:58	04:02	50m	04:52	43m	05:36	37m	06:14	14h 09m	20:23	37m	21:00	43m	21:44	50m	22:34	9h 52m	5h 30m					Do, 21. Aug
Fr, 22. Aug	MESZ	22:31–04:07*	5h 35m	AN <sub>+</sub> bis AN <sub>-</sub>		04:51	20:16	04:04	50m	04:54	43m	05:38	37m	06:15	14h 05m	20:21	37m	20:58	42m	21:41	49m	22:31	9h 55m	5h 35m					Fr, 22. Aug
Sa, 23. Aug	MESZ	22:28–04:09*	5h 41m	AN <sub>+</sub> bis AN <sub>-</sub>	●	06:11	20:31	04:07	49m	04:56	42m	05:39	37m	06:17	14h 02m	20:19	37m	20:56	42m	21:39	49m	22:28	9h 59m	5h 41m					Sa, 23. Aug
So, 24. Aug	MESZ	22:25–04:11*	5h 46m	AN <sub>+</sub> bis AN <sub>-</sub>		07:28	20:43	04:09	49m	04:58	42m	05:41	37m	06:18	13h 58m	20:17	36m	20:54	42m	21:36	48m	22:25	10h 02m	5h 46m					So, 24. Aug
Mo, 25. Aug	MESZ	22:22–04:14*	5h 51m	AN <sub>+</sub> bis AN <sub>-</sub>		08:41	20:55	04:11	48m	05:00	42m	05:43	37m	06:20	13h 55m	20:15	36m	20:52	42m	21:34	48m	22:22	10h 06m	5h 51m					Mo, 25. Aug
Di, 26. Aug	MESZ	22:19–04:16*	5h 57m	AN <sub>+</sub> bis AN <sub>-</sub>		09:53	21:06	04:14	48m	05:02	42m	05:44	36m	06:21	13h 51m	20:13	36m	20:49	41m	21:31	47m	22:19	10h 09m	5h 57m					Di, 26. Aug
Mi, 27. Aug	MESZ	22:16–04:19*	6h 02m	AN <sub>+</sub> bis AN <sub>-</sub>		11:04	21:18	04:16	47m	05:04	41m	05:46	36m	06:23	13h 48m	20:11	36m	20:47	41m	21:29	47m	22:16	10h 13m	6h 02m					Mi, 27. Aug
Do, 28. Aug	MESZ	22:13–04:21*	6h 07m	AN <sub>+</sub> bis AN <sub>-</sub>		12:15	21:33	04:19	47m	05:06	41m	05:47	36m	06:24	13h 44m	20:09	36m	20:45	41m	21:26	46m	22:13	10h 17m	6h 07m					Do, 28. Aug
Fr, 29. Aug	MESZ	22:10–04:23*	6h 12m	AN <sub>+</sub> bis AN <sub>-</sub>		13:27	21:51	04:21	46m	05:08	41m	05:49	36m	06:26	13h 40m	20:06	36m	20:43	41m	21:24	46m	22:10	10h 20m	6h 12m					Fr, 29. Aug
Sa, 30. Aug	MESZ	22:16–04																											

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29			
2025	Zeit-	Astr. dunkel und kein Mond			Mond		Beginn der Morgendämmerung						Sonne				Ende der Abenddämmerung				Nacht	Astr. N.	Naut. dunkel und kein Mond			2025					
	zone		$\Delta t$		Ph.	$\nearrow$	$\searrow$	Astr.	$\Delta t$	Naut.	$\Delta t$	Bürg.	$\Delta t$	$\nearrow$	$\Delta t$	$\searrow$	$\Delta t$	Bürg.	$\Delta t$	Naut.	$\Delta t$	Astr.	$\Delta t$	$\Delta t$		$\Delta t$					
Mo, 8. Sep	MESZ	—:—:—:—	—	Mond stört		19:57	07:21	04:43	43m	05:26	39m	06:05	35m	06:41	13h 04m	19:45	35m	20:20	39m	20:59	42m	21:42	10h 57m	7h 02m							Mo, 8. Sep
Di, 9. Sep	MESZ	—:—:—:—	—	Mond stört		20:11	08:47	04:45	42m	05:28	39m	06:07	35m	06:42	13h 00m	19:43	35m	20:18	39m	20:57	42m	21:39	11h 01m	7h 07m							Di, 9. Sep
Mi, 10. Sep	MESZ	—:~:~:~:~	~	Mond stört		20:27	10:14	04:47	42m	05:29	39m	06:08	35m	06:44	12h 56m	19:40	35m	20:16	38m	20:54	42m	21:37	11h 04m	7h 12m							Mi, 10. Sep
Do, 11. Sep	MESZ	—:~:~:~:~	~	Mond stört		20:47	11:43	04:49	42m	05:31	38m	06:10	35m	06:45	12h 53m	19:38	35m	20:13	38m	20:52	42m	21:34	11h 08m	7h 16m							Do, 11. Sep
Fr, 12. Sep	MESZ	—:~:~:~:~	~	Mond stört		21:14	13:13	04:51	42m	05:33	38m	06:12	35m	06:47	12h 49m	19:36	34m	20:11	38m	20:50	41m	21:31	11h 12m	7h 21m							Fr, 12. Sep
Sa, 13. Sep	MESZ	21:29–21:53	24m	AN <sub>+</sub> bis M <sub>7</sub>		21:53	14:40	04:53	41m	05:34	38m	06:13	34m	06:48	12h 45m	19:34	34m	20:09	38m	20:47	41m	21:29	11h 15m	7h 25m							Sa, 13. Sep
So, 14. Sep	MESZ	21:26–22:46	1h 20m	AN <sub>+</sub> bis M <sub>7</sub>	☾	22:46	15:55	04:55	41m	05:36	38m	06:15	34m	06:50	12h 41m	19:32	34m	20:06	38m	20:45	41m	21:26	11h 19m	7h 30m							So, 14. Sep
Mo, 15. Sep	MESZ	21:23–23:55	2h 31m	AN <sub>+</sub> bis M <sub>7</sub>		23:55	16:53	04:57	41m	05:38	38m	06:16	34m	06:51	12h 38m	19:29	34m	20:04	38m	20:42	41m	21:23	11h 23m	7h 35m							Mo, 15. Sep
Di, 16. Sep	MESZ	21:21–01:14*	3h 53m	AN <sub>+</sub> bis M <sub>7</sub>		—:—	17:34	04:58	41m	05:40	38m	06:18	34m	06:53	12h 34m	19:27	34m	20:02	38m	20:40	40m	21:21	11h 27m	7h 39m							Di, 16. Sep
Mi, 17. Sep	MESZ	21:18–02:35*	5h 17m	AN <sub>+</sub> bis M <sub>7</sub>		01:14	18:03	05:00	40m	05:41	38m	06:19	34m	06:54	12h 30m	19:25	34m	20:00	38m	20:38	40m	21:18	11h 30m	7h 44m							Mi, 17. Sep
Do, 18. Sep	MESZ	21:16–03:55*	6h 39m	AN <sub>+</sub> bis M <sub>7</sub>		02:35	18:23	05:02	40m	05:43	38m	06:21	34m	06:56	12h 26m	19:23	34m	19:57	37m	20:35	40m	21:16	11h 34m	7h 48m							Do, 18. Sep
Fr, 19. Sep	MESZ	21:13–05:06*	7h 52m	AN <sub>+</sub> bis AN <sub>-</sub>		03:55	18:38	05:04	40m	05:45	37m	06:23	34m	06:57	12h 23m	19:20	34m	19:55	37m	20:33	40m	21:13	11h 38m	7h 52m							Fr, 19. Sep
Sa, 20. Sep	MESZ	21:11–05:08*	7h 57m	AN <sub>+</sub> bis AN <sub>-</sub>		05:12	18:51	05:06	40m	05:46	37m	06:24	34m	06:59	12h 19m	19:18	34m	19:53	37m	20:30	40m	21:11	11h 42m	7h 57m							Sa, 20. Sep
So, 21. Sep	MESZ	21:08–05:10*	8h 01m	AN <sub>+</sub> bis AN <sub>-</sub>	☀	06:26	19:03	05:08	40m	05:48	37m	06:26	34m	07:00	12h 15m	19:16	34m	19:51	37m	20:28	39m	21:08	11h 45m	8h 01m							So, 21. Sep
Mo, 22. Sep	MESZ	21:06–05:11*	8h 05m	AN <sub>+</sub> bis AN <sub>-</sub>		07:37	19:14	05:10	39m	05:50	37m	06:27	34m	07:02	12h 11m	19:14	34m	19:48	37m	20:26	39m	21:06	11h 49m	8h 05m							Mo, 22. Sep
Di, 23. Sep	MESZ	21:03–05:13*	8h 10m	AN <sub>+</sub> bis AN <sub>-</sub>		08:48	19:26	05:11	39m	05:51	37m	06:29	34m	07:03	12h 08m	19:12	34m	19:46	37m	20:23	39m	21:03	11h 53m	8h 10m							Di, 23. Sep
Mi, 24. Sep	MESZ	21:01–05:15*	8h 14m	AN <sub>+</sub> bis AN <sub>-</sub>		10:00	19:39	05:13	39m	05:53	37m	06:30	34m	07:05	12h 04m	19:09	34m	19:44	37m	20:21	39m	21:01	11h 57m	8h 14m							Mi, 24. Sep
Do, 25. Sep	MESZ	20:58–05:17*	8h 18m	AN <sub>+</sub> bis AN <sub>-</sub>		11:12	19:56	05:15	39m	05:54	37m	06:32	34m	07:06	12h 00m	19:07	34m	19:42	37m	20:19	39m	20:58	12h 00m	8h 18m							Do, 25. Sep
Fr, 26. Sep	MESZ	20:56–05:18*	8h 22m	AN <sub>+</sub> bis AN <sub>-</sub>		12:24	20:18	05:17	39m	05:56	37m	06:33	34m	07:08	11h 57m	19:05	34m	19:39	37m	20:17	39m	20:56	12h 04m	8h 22m							Fr, 26. Sep
Sa, 27. Sep	MESZ	20:53–05:20*	8h 26m	AN <sub>+</sub> bis AN <sub>-</sub>		13:34	20:48	05:18	39m	05:58	37m	06:35	34m	07:09	11h 53m	19:03	34m	19:37	37m	20:14	39m	20:53	12h 08m	8h 26m							Sa, 27. Sep
So, 28. Sep	MESZ	21:28–05:22*	7h 53m	M <sub>7</sub> bis AN <sub>-</sub>		14:39	21:28	05:20	39m	05:59	37m	06:37	34m	07:11	11h 49m	19:01	34m	19:35	37m	20:12	38m	20:51	12h 12m	8h 31m							So, 28. Sep
Mo, 29. Sep	MESZ	22:22–05:24*	7h 01m	M <sub>7</sub> bis AN <sub>-</sub>		15:34	22:22	05:22	38m	06:01	37m	06:38	34m	07:13	11h 45m	18:58	34m	19:33	37m	20:10	38m	20:49	12h 15m	8h 35m							Mo, 29. Sep
Di, 30. Sep	MESZ	23:28–05:25*	5h 57m	M <sub>7</sub> bis AN <sub>-</sub>	☾	16:17	23:28	05:24	38m	06:02	37m	06:40	34m	07:14	11h 42m	18:56	34m	19:30	37m	20:08	38m	20:46	12h 19m	8h 39m							Di, 30. Sep
Mi, 1. Okt	MESZ	00:44*–05:27*	4h 43m	M <sub>7</sub> bis AN <sub>-</sub>		16:49	—:—	05:25	38m	06:04	37m	06:41	34m	07:16	11h 38m	18:54	34m	19:28	36m	20:05	38m	20:44	12h 23m	8h 43m							Mi, 1. Okt
Do, 2. Okt	MESZ	02:04*–05:29*	3h 24m	M <sub>7</sub> bis AN <sub>-</sub>		17:13	00:44	05:27	38m	06:06	37m	06:43	34m	07:17	11h 34m	18:52	34m	19:26	36m	20:03	38m	20:42	12h 26m	8h 47m							Do, 2. Okt
Fr, 3. Okt	MESZ	03:27*–05:30*	2h 03m	M <sub>7</sub> bis AN <sub>-</sub>		17:32	02:04	05:29	38m	06:07	37m	06:44	34m	07:19	11h 30m	18:50	34m	19:24	36m	20:01	38m	20:39	12h 30m	8h 51m							Fr, 3. Okt
Sa, 4. Okt	MESZ	04:51*–05:32*	41m	M <sub>7</sub> bis AN <sub>-</sub>		17:48	03:27	05:30	38m	06:09	37m	06:46	34m	07:20	11h 27m	18:47	34m	19:22	36m	19:59	38m	20:37	12h 34m	8h 55m							Sa, 4. Okt
So, 5. Okt	MESZ	—:~:~:~:~	~	Mond stört		18:02	04:51	05:32	38m	06:10	36m	06:47	34m	07:22	11h 23m	18:45	34m	19:20	36m	19:57	38m	20:35	12h 38m	8h 58m							So, 5. Okt
Mo, 6. Okt	MESZ	—:~:~:~:~	~	Mond stört		18:16	06:16	05:34	38m	06:12	36m	06:49	34m	07:23	11h 19m	18:43	34m	19:18	36m	19:54	38m	20:32	12h 41m	9h 02m							Mo, 6. Okt
Di, 7. Okt	MESZ	—:~:~:~:~	~	Mond stört	☾	18:32	07:43	05:35	38m	06:14	36m	06:50	34m	07:25	11h 15m	18:41	34m	19:15	36m	19:52	38m	20:30	12h 45m	9h 06m							Di, 7. Okt
Mi, 8. Okt	MESZ	—:~:~:~:~	~	Mond stört		18:50	09:14	05:37	38m	06:15	36m	06:52	34m	07:27	11h 12m	18:39	34m	19:13	36m	19:50	37m	20:28	12h 49m	9h 10m							Mi, 8. Okt
Do, 9. Okt	MESZ	—:~:~:~:~	~	Mond stört		19:15	10:48	05:39	38m	06:17	36m	06:54	34m	07:28	11h 08m	18:37	34m	19:11	36m	19:48	37m	20:26	12h 53m	9h 14m							Do, 9. Okt
Fr, 10. Okt	MESZ	—:~:~:~:~	~	Mond stört		19:50	12:20	05:40	37m	06:18	36m	06:55	34m	07:30	11h 04m	18:35	34m	19:09	36m	19:46	37m	20:24	12h 56m	9h 18m							Fr, 10. Okt
Sa, 11. Okt	MESZ	20:22–20:39	17m	AN <sub>+</sub> bis M <sub>7</sub>		20:39	13:42	05:42	37m	06:20	36m	06:57	34m	07:31	11h 01m	18:32	34m	19:07	36m	19:44	37m	20:22	13h 00m	9h 21m							Sa, 11. Okt
So, 12. Okt	MESZ	20:20–21:45	1h 25m	AN <sub>+</sub> bis M <sub>7</sub>		21:45	14:48	05:43	37m	06:21	36m	06:58	34m	07:33	10h 57m	18:30	34m	19:05	36m	19:42	37m	20:20	13h 04m	9h 25m							So, 12. Okt
Mo, 13. Okt	MESZ	20:18–23:02	2h 44m	AN <sub>+</sub> bis M <sub>7</sub>	☾	23:02	15:35	05:45	37m	06:23	36m	07:00	34m	07:35	10h 53m	18:28	34m	19:03	36m	19:40	37m	20:18	13h 07m	9h 29m							Mo, 13. Okt
Di, 14. Okt	MESZ	20:15–00:24*	4h 08m	AN <sub>+</sub> bis M <sub>7</sub>		—:~	16:07	05:47	37m	06:24	36m	07:01	34m	07:36	10h 50m	18:26	34m	19:01	36m	19:38	37m	20:15	13h 11m	9h 32m							Di, 14. Okt
Mi, 15. Okt	MESZ	20:13–01:44*	5h 30m	AN <sub>+</sub> bis M <sub>7</sub>		00:24	16:30	05:48	37m	06:26	36m	07:03	34m	07:38	10h 46m	18:24	34m	18:59	36m	19:36	37m	20:13	13h 15m	9h 36m							Mi, 15. Okt
Do, 16. Okt	MESZ	20:11–03:01*	6h 49m	AN <sub>+</sub> bis M <sub>7</sub>		01:44	16:46	05:50	37m	06:27	36m	07:04	34m	07:39	10h 42m	18:22	34m	18:57	36m	19:34	37m	20:11	13h 18m	9h 39m							Do, 16. Okt
Fr, 17. Okt	MESZ	20:10–04:15*	8h 04m	AN <sub>+</sub> bis M <sub>7</sub>		03:01	17:00	05:51	37m	06:29	36m	07:06	34m	07:41	10h 39m	18:20	34m	18:55	36m	19:32	37m	20:10	13h 22m	9h 43m							Fr, 17. Okt
Sa, 18. Okt	MESZ	20:08–05:26*	9h 18m	AN <sub>+</sub> bis M <sub>7</sub>		04:15	17:11	05:53	37m	06																					

Table with 29 columns (1-29) and 48 rows. Columns include dates (1-29), time zones (2), astronomical data (3-5), moon phases (6-8), dawn data (9-13), sun data (14-17), dusk data (18-22), night data (23-25), and nautical data (26-28). Rows list dates from Oct 28 to Dec 16, 2025, with corresponding astronomical and nautical information.



1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		
2025/26	Zeit- zone	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung					Sonne				Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond				2025/26		
		$\Delta t$			Ph.	$\uparrow$	$\searrow$	Astr.	$\Delta t$	Naut.	$\Delta t$	Bürg.	$\Delta t$	$\uparrow$	$\Delta t$	$\searrow$	$\Delta t$	Bürg.	$\Delta t$	Naut.	$\Delta t$	Astr.	$\Delta t$	$\Delta t$		$\Delta t$				
Mi, 17. Dez		18:15 – 06:09*	11h 53m	AN+ bis AN-		06:00	13:56	06:08	39m	06:48	40m	07:29	41m	08:10	8h 03m	16:14	41m	16:55	40m	17:36	39m	18:15	15h 57m	11h 53m						Mi, 17. Dez
Do, 18. Dez		18:16 – 06:10*	11h 54m	AN+ bis AN-		07:09	14:26	06:09	39m	06:49	40m	07:30	41m	08:11	8h 03m	16:14	41m	16:55	40m	17:36	39m	18:16	15h 57m	11h 54m						Do, 18. Dez
Fr, 19. Dez		18:16 – 06:10*	11h 54m	AN+ bis AN-		08:13	15:08	06:10	39m	06:49	40m	07:30	41m	08:11	8h 03m	16:14	41m	16:55	40m	17:36	39m	18:16	15h 57m	11h 54m						Fr, 19. Dez
Sa, 20. Dez		18:16 – 06:11*	11h 54m	AN+ bis AN-	●	09:07	16:02	06:10	39m	06:50	40m	07:31	41m	08:12	8h 02m	16:15	41m	16:56	40m	17:37	39m	18:16	15h 57m	11h 54m						Sa, 20. Dez
So, 21. Dez		18:17 – 06:11*	11h 54m	AN+ bis AN-		09:49	17:07	06:11	39m	06:50	40m	07:31	41m	08:12	8h 02m	16:15	41m	16:56	40m	17:37	39m	18:17	15h 57m	11h 54m						So, 21. Dez
Mo, 22. Dez		18:20 – 06:12*	11h 51m	M\ bis AN-		10:21	18:20	06:11	39m	06:51	40m	07:32	41m	08:13	8h 02m	16:16	41m	16:57	40m	17:38	39m	18:17	15h 57m	11h 54m						Mo, 22. Dez
Di, 23. Dez		19:36 – 06:12*	10h 36m	M\ bis AN-		10:44	19:36	06:12	39m	06:51	40m	07:32	41m	08:13	8h 02m	16:16	41m	16:57	40m	17:38	39m	18:18	15h 57m	11h 54m						Di, 23. Dez
Mi, 24. Dez		20:52 – 06:12*	9h 19m	M\ bis AN-		11:02	20:52	06:12	39m	06:52	40m	07:33	41m	08:14	8h 03m	16:17	41m	16:58	40m	17:39	39m	18:19	15h 57m	11h 53m						Mi, 24. Dez
Do, 25. Dez		22:09 – 06:13*	8h 03m	M\ bis AN-		11:17	22:09	06:12	39m	06:52	40m	07:33	41m	08:14	8h 03m	16:18	41m	16:59	40m	17:40	39m	18:19	15h 56m	11h 53m						Do, 25. Dez
Fr, 26. Dez		23:26 – 06:13*	6h 47m	M\ bis AN-		11:31	23:26	06:13	39m	06:52	40m	07:33	41m	08:14	8h 03m	16:18	41m	16:59	40m	17:40	39m	18:20	15h 56m	11h 53m						Fr, 26. Dez
Sa, 27. Dez		00:45* – 06:13*	5h 28m	M\ bis AN-	◐	11:44	—:—	06:13	39m	06:53	40m	07:34	41m	08:15	8h 04m	16:19	41m	17:00	40m	17:41	39m	18:21	15h 55m	11h 52m						Sa, 27. Dez
So, 28. Dez		02:07* – 06:14*	4h 06m	M\ bis AN-		11:57	00:45	06:13	39m	06:53	40m	07:34	40m	08:15	8h 05m	16:20	40m	17:01	40m	17:42	39m	18:21	15h 54m	11h 52m						So, 28. Dez
Mo, 29. Dez		03:34* – 06:14*	2h 39m	M\ bis AN-		12:14	02:07	06:14	39m	06:53	40m	07:34	40m	08:15	8h 05m	16:21	40m	17:02	40m	17:43	39m	18:22	15h 54m	11h 51m						Mo, 29. Dez
Di, 30. Dez		05:05* – 06:14*	1h 09m	M\ bis AN-		12:35	03:34	06:14	39m	06:53	40m	07:34	40m	08:15	8h 06m	16:22	40m	17:03	40m	17:43	39m	18:23	15h 53m	11h 51m						Di, 30. Dez
Mi, 31. Dez		—:—:—:—	—	Mond stört		13:04	05:05	06:14	39m	06:53	40m	07:34	40m	08:15	8h 07m	16:23	40m	17:03	40m	17:44	39m	18:24	15h 52m	11h 50m						Mi, 31. Dez
Do, 1. Jan		—:—:—:—	—	Mond stört		13:47	06:33	06:14	39m	06:53	40m	07:34	40m	08:15	8h 08m	16:24	40m	17:04	40m	17:45	39m	18:25	15h 51m	11h 49m						Do, 1. Jan
Fr, 2. Jan		—:~:~:~:~	—	Mond stört		14:49	07:50	06:14	39m	06:53	40m	07:34	40m	08:15	8h 09m	16:25	40m	17:05	40m	17:46	39m	18:25	15h 50m	11h 48m						Fr, 2. Jan
Sa, 3. Jan		—:~:~:~:~	—	Mond stört	○	16:08	08:48	06:14	39m	06:53	40m	07:34	40m	08:15	8h 11m	16:26	40m	17:06	40m	17:47	39m	18:26	15h 48m	11h 47m						Sa, 3. Jan
So, 4. Jan		—:~:~:~:~	—	Mond stört		17:36	09:28	06:14	39m	06:53	40m	07:34	40m	08:14	8h 12m	16:27	40m	17:07	40m	17:48	39m	18:27	15h 47m	11h 46m						So, 4. Jan
Mo, 5. Jan		18:28 – 19:04	35m	AN+ bis M $\gamma$		19:04	09:56	06:14	39m	06:53	40m	07:34	40m	08:14	8h 13m	16:28	40m	17:09	40m	17:49	39m	18:28	15h 45m	11h 45m						Mo, 5. Jan
Di, 6. Jan		18:29 – 20:28	1h 58m	AN+ bis M $\gamma$		20:28	10:15	06:14	39m	06:53	40m	07:34	40m	08:14	8h 15m	16:29	40m	17:10	40m	17:50	39m	18:29	15h 44m	11h 44m						Di, 6. Jan
Mi, 7. Jan		18:30 – 21:46	3h 15m	AN+ bis M $\gamma$		21:46	10:31	06:14	39m	06:53	40m	07:33	40m	08:14	8h 16m	16:30	40m	17:11	40m	17:51	39m	18:30	15h 42m	11h 43m						Mi, 7. Jan
Do, 8. Jan		18:31 – 23:01	4h 29m	AN+ bis M $\gamma$		23:01	10:44	06:14	39m	06:53	40m	07:33	40m	08:13	8h 18m	16:32	40m	17:12	40m	17:52	39m	18:31	15h 40m	11h 41m						Do, 8. Jan
Fr, 9. Jan		18:33 – 00:13*	5h 40m	AN+ bis M $\gamma$		—:—	10:55	06:13	39m	06:52	40m	07:33	40m	08:13	8h 20m	16:33	40m	17:13	40m	17:53	39m	18:33	15h 39m	11h 40m						Fr, 9. Jan
Sa, 10. Jan		18:34 – 01:24*	6h 50m	AN+ bis M $\gamma$	◑	00:13	11:08	06:13	39m	06:52	40m	07:32	39m	08:12	8h 22m	16:34	39m	17:14	40m	17:55	39m	18:34	15h 37m	11h 39m						Sa, 10. Jan
So, 11. Jan		18:35 – 02:36*	8h 00m	AN+ bis M $\gamma$		01:24	11:21	06:13	39m	06:52	40m	07:32	39m	08:12	8h 24m	16:36	39m	17:16	40m	17:56	39m	18:35	15h 35m	11h 37m						So, 11. Jan
Mo, 12. Jan		18:36 – 03:47*	9h 11m	AN+ bis M $\gamma$		02:36	11:37	06:12	39m	06:51	39m	07:31	39m	08:11	8h 26m	16:37	39m	17:17	39m	17:57	39m	18:36	15h 33m	11h 35m						Mo, 12. Jan
Di, 13. Jan		18:37 – 04:58*	10h 20m	AN+ bis M $\gamma$		03:47	11:58	06:12	38m	06:51	39m	07:31	39m	08:10	8h 28m	16:39	39m	17:18	39m	17:58	38m	18:37	15h 31m	11h 34m						Di, 13. Jan
Mi, 14. Jan		18:38 – 06:04*	11h 25m	AN+ bis M $\gamma$		04:58	12:25	06:11	38m	06:50	39m	07:30	39m	08:10	8h 30m	16:40	39m	17:20	39m	17:59	38m	18:38	15h 28m	11h 32m						Mi, 14. Jan
Do, 15. Jan		18:40 – 06:10*	11h 30m	AN+ bis AN-		06:04	13:03	06:11	38m	06:50	39m	07:30	39m	08:09	8h 32m	16:41	39m	17:21	39m	18:01	38m	18:40	15h 26m	11h 30m						Do, 15. Jan
Fr, 16. Jan		18:41 – 06:10*	11h 29m	AN+ bis AN-		07:02	13:53	06:10	38m	06:49	39m	07:29	39m	08:08	8h 34m	16:43	39m	17:22	39m	18:02	38m	18:41	15h 24m	11h 29m						Fr, 16. Jan
Sa, 17. Jan		18:42 – 06:09*	11h 27m	AN+ bis AN-		07:48	14:55	06:10	38m	06:49	39m	07:28	39m	08:07	8h 37m	16:45	39m	17:24	39m	18:03	38m	18:42	15h 21m	11h 27m						Sa, 17. Jan
So, 18. Jan		18:43 – 06:09*	11h 25m	AN+ bis AN-	●	08:23	16:07	06:09	38m	06:48	39m	07:27	39m	08:06	8h 39m	16:46	39m	17:25	39m	18:05	38m	18:43	15h 19m	11h 25m						So, 18. Jan
Mo, 19. Jan		18:45 – 06:08*	11h 23m	AN+ bis AN-		08:49	17:23	06:09	38m	06:47	39m	07:27	38m	08:05	8h 42m	16:48	38m	17:27	39m	18:06	38m	18:45	15h 16m	11h 23m						Mo, 19. Jan
Di, 20. Jan		18:46 – 06:07*	11h 21m	AN+ bis AN-		09:09	18:41	06:08	38m	06:46	39m	07:26	38m	08:05	8h 44m	16:49	38m	17:28	39m	18:07	38m	18:46	15h 14m	11h 21m						Di, 20. Jan
Mi, 21. Jan		19:59 – 06:06*	10h 07m	M\ bis AN-		09:25	19:59	06:07	38m	06:46	39m	07:25	38m	08:03	8h 47m	16:51	38m	17:29	39m	18:09	38m	18:47	15h 11m	11h 19m						Mi, 21. Jan
Do, 22. Jan		21:16 – 06:05*	8h 49m	M\ bis AN-		09:38	21:16	06:06	38m	06:45	39m	07:24	38m	08:02	8h 50m	16:52	38m	17:31	39m	18:10	38m	18:49	15h 08m	11h 16m						Do, 22. Jan
Fr, 23. Jan		22:34 – 06:05*	7h 30m	M\ bis AN-		09:51	22:34	06:05	38m	06:44	39m	07:23	38m	08:01	8h 52m	16:54	38m	17:32	39m	18:12	38m	18:50	15h 06m	11h 14m						Fr, 23. Jan
Sa, 24. Jan		23:54 – 06:04*	6h 09m	M\ bis AN-		10:04	23:54	06:05	38m	06:43	38m	07:22	38m	08:00	8h 55m	16:56	38m	17:34	38m	18:13	38m	18:51	15h 03m	11h 12m						Sa, 24. Jan
So, 25. Jan		01:18* – 06:03*	4h 44m	M\ bis AN-		10:19	—:—	06:04	38m	06:42	38m	07:21	38m	07:59	8h 58m	16:57	38m	17:36	38m	18:14	38m	18:53	15h 00m	11h 09m						So, 25. Jan
Mo, 26. Jan		02:45* – 06:02*	3h 17m	M\ bis AN-	◒	10:38	01:18	06:03	38m	06:41	38m	07:20	37m	07:58	9h 01m	16:59	38m	17:37	38m	18:16	38m	18:54	14h 57m	11h 07m						Mo, 26. Jan
Di, 27. Jan		04:12* – 06:01*	1h 49m	M\ bis AN-		11:03	02:45	06:02	38m	06:40	38m	07:19	37m	07:57	9h 04m	17:01	37m	17:39	38m	18:17	38m	18:56	14h 54m	11h 05m</						