

# Mond- und Dämmerungstabelle 2023

## für die visuelle Deep-Sky-Beobachtung

Gmünd (Niederösterreich) 48.7667° N 14.9833° 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.

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
2023	Zeit- zone	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung					Sonne			Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond			2023		
			$\Delta t$		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.	$\Delta t$	$\Delta t$		$\Delta t$		
So, 1. Jan		03:38*–05:56*	2h 17m	M <sub>\</sub> bis AN <sub>\</sub>		12:37	02:25	05:56	38m	06:34	39m	07:13	39m	07:52	8h 21m	16:14	39m	16:53	39m	17:32	38m	18:11	15h 38m	11h 45m				So, 1. Jan
Mo, 2. Jan		04:50*–05:56*	1h 05m	M <sub>\</sub> bis AN <sub>\</sub>		12:57	03:38	05:56	38m	06:34	39m	07:13	39m	07:52	8h 22m	16:15	39m	16:54	39m	17:33	38m	18:11	15h 37m	11h 44m				Mo, 2. Jan
Di, 3. Jan		—:—:—:—:—	–	Mond stört		13:22	04:50	05:56	38m	06:34	39m	07:13	39m	07:52	8h 23m	16:16	39m	16:55	39m	17:34	38m	18:12	15h 35m	11h 43m				Di, 3. Jan
Mi, 4. Jan		—:—:—:—:—	–	Mond stört		13:54	06:00	05:56	38m	06:34	39m	07:13	38m	07:52	8h 25m	16:17	38m	16:56	39m	17:35	38m	18:13	15h 34m	11h 42m				Mi, 4. Jan
Do, 5. Jan		—:—:—:—:—	–	Mond stört		14:35	07:04	05:56	38m	06:34	39m	07:13	38m	07:52	8h 26m	16:18	38m	16:57	39m	17:36	38m	18:14	15h 33m	11h 41m				Do, 5. Jan
Fr, 6. Jan		—:~:~:~:~:~	–	Mond stört		15:26	07:59	05:56	38m	06:34	39m	07:13	38m	07:52	8h 27m	16:19	38m	16:58	39m	17:37	38m	18:15	15h 31m	11h 40m				Fr, 6. Jan
Sa, 7. Jan		—:~:~:~:~:~	–	Mond stört	○	16:26	08:44	05:55	38m	06:34	38m	07:13	38m	07:51	8h 29m	16:20	38m	16:59	38m	17:38	38m	18:16	15h 30m	11h 39m				Sa, 7. Jan
So, 8. Jan		—:~:~:~:~:~	–	Mond stört		17:32	09:19	05:55	38m	06:33	38m	07:12	38m	07:51	8h 30m	16:22	38m	17:00	38m	17:39	38m	18:17	15h 28m	11h 37m				So, 8. Jan
Mo, 9. Jan		18:18–18:41	22m	AN <sub>+</sub> bis M <sub>7</sub>		18:41	09:45	05:55	37m	06:33	38m	07:12	38m	07:50	8h 32m	16:23	38m	17:01	38m	17:40	37m	18:18	15h 27m	11h 36m				Mo, 9. Jan
Di, 10. Jan		18:19–19:49	1h 30m	AN <sub>+</sub> bis M <sub>7</sub>		19:49	10:06	05:55	37m	06:33	38m	07:12	38m	07:50	8h 34m	16:24	38m	17:03	38m	17:41	37m	18:19	15h 25m	11h 35m				Di, 10. Jan
Mi, 11. Jan		18:20–20:58	2h 37m	AN <sub>+</sub> bis M <sub>7</sub>		20:58	10:24	05:55	37m	06:33	38m	07:11	38m	07:50	8h 35m	16:25	38m	17:04	38m	17:43	37m	18:20	15h 23m	11h 33m				Mi, 11. Jan
Do, 12. Jan		18:22–22:06	3h 44m	AN <sub>+</sub> bis M <sub>7</sub>		22:06	10:39	05:54	37m	06:32	38m	07:11	38m	07:49	8h 37m	16:27	38m	17:05	38m	17:44	37m	18:22	15h 21m	11h 32m				Do, 12. Jan
Fr, 13. Jan		18:23–23:15	4h 52m	AN <sub>+</sub> bis M <sub>7</sub>		23:15	10:53	05:54	37m	06:32	38m	07:10	38m	07:48	8h 39m	16:28	38m	17:06	38m	17:45	37m	18:23	15h 19m	11h 30m				Fr, 13. Jan
Sa, 14. Jan		18:24–00:27*	6h 02m	AN <sub>+</sub> bis M <sub>7</sub>		—:—	11:07	05:54	37m	06:31	38m	07:10	38m	07:48	8h 41m	16:29	38m	17:08	38m	17:46	37m	18:24	15h 17m	11h 29m				Sa, 14. Jan
So, 15. Jan		18:25–01:41*	7h 16m	AN <sub>+</sub> bis M <sub>7</sub>	●	00:27	11:23	05:53	37m	06:31	38m	07:09	37m	07:47	8h 43m	16:31	37m	17:09	38m	17:47	37m	18:25	15h 15m	11h 27m				So, 15. Jan
Mo, 16. Jan		18:26–03:01*	8h 34m	AN <sub>+</sub> bis M <sub>7</sub>		01:41	11:41	05:53	37m	06:30	38m	07:09	37m	07:46	8h 45m	16:32	37m	17:10	38m	17:49	37m	18:26	15h 13m	11h 25m				Mo, 16. Jan
Di, 17. Jan		18:27–04:24*	9h 56m	AN <sub>+</sub> bis M <sub>7</sub>		03:01	12:05	05:52	37m	06:30	38m	07:08	37m	07:46	8h 48m	16:34	37m	17:11	38m	17:50	37m	18:27	15h 11m	11h 24m				Di, 17. Jan
Mi, 18. Jan		18:29–05:46*	11h 17m	AN <sub>+</sub> bis M <sub>7</sub>		04:24	12:37	05:52	37m	06:29	38m	07:07	37m	07:45	8h 50m	16:35	37m	17:13	38m	17:51	37m	18:29	15h 08m	11h 22m				Mi, 18. Jan
Do, 19. Jan		18:30–05:50*	11h 20m	AN <sub>+</sub> bis AN <sub>\</sub>		05:46	13:23	05:51	37m	06:28	38m	07:07	37m	07:44	8h 52m	16:37	37m	17:14	38m	17:52	37m	18:30	15h 06m	11h 20m				Do, 19. Jan
Fr, 20. Jan		18:31–05:50*	11h 18m	AN <sub>+</sub> bis AN <sub>\</sub>		06:59	14:27	05:50	37m	06:28	38m	07:06	37m	07:43	8h 54m	16:38	37m	17:16	38m	17:54	37m	18:31	15h 04m	11h 18m				Fr, 20. Jan
Sa, 21. Jan		18:32–05:49*	11h 16m	AN <sub>+</sub> bis AN <sub>\</sub>	●	07:57	15:48	05:50	37m	06:27	37m	07:05	37m	07:42	8h 57m	16:40	37m	17:17	37m	17:55	37m	18:32	15h 01m	11h 16m				Sa, 21. Jan
So, 22. Jan		18:34–05:48*	11h 14m	AN <sub>+</sub> bis AN <sub>\</sub>		08:40	17:17	05:49	37m	06:26	37m	07:04	37m	07:41	8h 59m	16:41	37m	17:18	37m	17:56	37m	18:34	14h 59m	11h 14m				So, 22. Jan
Mo, 23. Jan		18:48–05:47*	10h 59m	M <sub>\</sub> bis AN <sub>\</sub>		09:10	18:48	05:48	37m	06:25	37m	07:03	37m	07:40	9h 02m	16:43	37m	17:20	37m	17:58	37m	18:35	14h 56m	11h 12m				Mo, 23. Jan
Di, 24. Jan		20:15–05:47*	9h 31m	M <sub>\</sub> bis AN <sub>\</sub>		09:33	20:15	05:47	37m	06:25	37m	07:02	36m	07:39	9h 05m	16:44	36m	17:21	37m	17:59	37m	18:36	14h 53m	11h 10m				Di, 24. Jan
Mi, 25. Jan		21:37–05:46*	8h 08m	M <sub>\</sub> bis AN <sub>\</sub>		09:52	21:37	05:47	37m	06:24	37m	07:01	36m	07:38	9h 07m	16:46	36m	17:23	37m	18:00	37m	18:38	14h 51m	11h 08m				Mi, 25. Jan
Do, 26. Jan		22:56–05:45*	6h 48m	M <sub>\</sub> bis AN <sub>\</sub>		10:09	22:56	05:46	37m	06:23	37m	07:00	36m	07:37	9h 10m	16:47	36m	17:24	37m	18:02	37m	18:39	14h 48m	11h 05m				Do, 26. Jan
Fr, 27. Jan		00:12*–05:44*	5h 31m	M <sub>\</sub> bis AN <sub>\</sub>		10:25	—:—	05:45	37m	06:22	37m	06:59	36m	07:36	9h 13m	16:49	36m	17:26	37m	18:03	37m	18:40	14h 45m	11h 03m				Fr, 27. Jan
Sa, 28. Jan		01:27*–05:43*	4h 15m	M <sub>\</sub> bis AN <sub>\</sub>	●	10:42	00:12	05:44	37m	06:21	37m	06:58	36m	07:35	9h 16m	16:51	36m	17:27	37m	18:05	37m	18:42	14h 42m	11h 01m				Sa, 28. Jan
So, 29. Jan		02:41*–05:42*	3h 00m	M <sub>\</sub> bis AN <sub>\</sub>		11:01	01:27	05:43	36m	06:20	37m	06:57	36m	07:33	9h 18m	16:52	36m	17:29	37m	18:06	37m	18:43	14h 39m	10h 58m				So, 29. Jan
Mo, 30. Jan		03:52*–05:41*	1h 48m	M <sub>\</sub> bis AN <sub>\</sub>		11:25	02:41	05:42	36m	06:19	37m	06:56	36m	07:32	9h 21m	16:54	36m	17:30	37m	18:07	36m	18:44	14h 36m	10h 56m				Mo, 30. Jan
Di, 31. Jan		04:58*–05:40*	41m	M <sub>\</sub> bis AN <sub>\</sub>		11:54	03:52	05:41	36m	06:18	37m	06:55	36m	07:31	9h 24m	16:56	36m	17:32	37m	18:09	36m	18:46	14h 34m	10h 53m				Di, 31. Jan
Mi, 1. Feb		—:~:~:~:~:~	–	Mond stört		12:33	04:58	05:40	36m	06:17	37m	06:54	35m	07:30	9h 27m	16:57	35m	17:33	37m	18:10	36m	18:47	14h 31m	10h 51m				Mi, 1. Feb
Do, 2. Feb		—:~:~:~:~:~	–	Mond stört		13:20	05:56	05:39	36m	06:15	36m	06:52	35m	07:28	9h 30m	16:59	35m	17:35	37m	18:12	36m	18:49	14h 27m	10h 48m				Do, 2. Feb
Fr, 3. Feb		—:~:~:~:~:~	–	Mond stört		14:18	06:44	05:37	36m	06:14	36m	06:51	35m	07:27	9h 33m	17:00	35m	17:36	36m	18:13	36m	18:50	14h 24m	10h 46m				Fr, 3. Feb
Sa, 4. Feb		—:~:~:~:~:~	–	Mond stört		15:23	07:21	05:36	36m	06:13	36m	06:50	35m	07:25	9h 36m	17:02	35m	17:38	36m	18:15	36m	18:51	14h 21m	10h 43m				Sa, 4. Feb
So, 5. Feb		—:~:~:~:~:~	–	Mond stört	○	16:31	07:49	05:35	36m	06:12	36m	06:48	35m	07:24	9h 39m	17:04	35m	17:39	36m	18:16	36m	18:53	14h 18m	10h 40m				So, 5. Feb
Mo, 6. Feb		—:~:~:~:~:~	–	Mond stört		17:40	08:12	05:34	36m	06:10	36m	06:47	35m	07:22	9h 42m	17:05	35m	17:41	36m	18:18	36m	18:54	14h 15m	10h 38m				Mo, 6. Feb
Di, 7. Feb		—:~:~:~:~:~	–	Mond stört		18:49	08:30	05:32	36m	06:09	36m	06:46	35m	07:21	9h 46m	17:07	35m	17:42	36m	18:19	36m	18:56	14h 12m	10h 35m				Di, 7. Feb
Mi, 8. Feb		18:57–19:58	1h 00m	AN <sub>+</sub> bis M <sub>7</sub>		19:58	08:45	05:31	36m	06:08	36m	06:44	35m	07:19	9h 49m	17:09	35m	17:44	36m	18:20	36m	18:57	14h 09m	10h 32m				Mi, 8. Feb
Do, 9. Feb		18:59–21:06	2h 07m	AN <sub>+</sub> bis M <sub>7</sub>		21:06	09:00	05:30	36m	06:06	36m	06:43	35m	07:18	9h 52m	17:10	35m	17:45	36m	18:22	36m	18:59	14h 05m	10h 29m				Do, 9. Feb
Fr, 10. Feb		19:00–22:16	3h 16m	AN <sub>+</sub> bis M <sub>7</sub>		22:16	09:13	05:28	36m	06:05	36m	06:41	34m	07:16	9h 55m	17:12	35m	17:47	36m	18:23	36m	19:00	14h 02m	10h 26m				Fr, 10. Feb
Sa, 11. Feb		19:01–23:28	4h 26m	AN <sub>+</sub> bis M <sub>7</sub>		23:28	09:28	05:27	36m	06:03	36m	06:40	34m	07:15	9h 59m	17:14	34m	17:49	36m	18:25	36m	19:01	13h 59m	10h 23m				Sa, 11. Feb
So, 12. Feb		19:03–00:44*	5h 41m	AN <sub>+</sub> bis M <sub>7</sub>		—:~	09:45	05:25	36m	06:02	36m	06:38	34m	07:13	10h 02m	17:15	34m	17:5										

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	
2023	Zeit- zone	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung					Sonne				Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond			2023		
		$\Delta t$			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, 20. Feb		19:15–05:11*	9h 55m	AN <sub>+</sub> bis AN <sub>-</sub>	●	07:33	17:40	05:13	36m	05:49	35m	06:25	34m	06:59	10h 29m	17:28	34m	18:03	35m	18:38	36m	19:15	13h 28m	9h 55m					Mo, 20. Feb
Di, 21. Feb		19:16–05:09*	9h 52m	AN <sub>+</sub> bis AN <sub>-</sub>		07:54	19:07	05:11	36m	05:47	35m	06:23	34m	06:57	10h 32m	17:30	34m	18:04	35m	18:40	36m	19:16	13h 25m	9h 52m					Di, 21. Feb
Mi, 22. Feb		20:30–05:07*	8h 37m	M <sub>\</sub> bis AN <sub>-</sub>		08:11	20:30	05:09	36m	05:45	35m	06:21	33m	06:55	10h 36m	17:32	34m	18:06	35m	18:42	36m	19:18	13h 21m	9h 49m					Mi, 22. Feb
Do, 23. Feb		21:50–05:05*	7h 14m	M <sub>\</sub> bis AN <sub>-</sub>		08:28	21:50	05:07	36m	05:44	35m	06:19	33m	06:53	10h 39m	17:33	33m	18:07	35m	18:43	36m	19:20	13h 18m	9h 45m					Do, 23. Feb
Fr, 24. Feb		23:09–05:04*	5h 54m	M <sub>\</sub> bis AN <sub>-</sub>		08:45	23:09	05:05	36m	05:42	35m	06:18	33m	06:52	10h 43m	17:35	33m	18:09	35m	18:45	36m	19:21	13h 14m	9h 42m					Fr, 24. Feb
Sa, 25. Feb		00:26*–05:02*	4h 35m	M <sub>\</sub> bis AN <sub>-</sub>		09:04	—:—	05:04	36m	05:40	35m	06:16	33m	06:50	10h 46m	17:36	33m	18:10	35m	18:46	36m	19:23	13h 11m	9h 39m					Sa, 25. Feb
So, 26. Feb		01:40*–05:00*	3h 19m	M <sub>\</sub> bis AN <sub>-</sub>		09:26	00:26	05:02	36m	05:38	35m	06:14	33m	06:48	10h 50m	17:38	33m	18:12	35m	18:48	36m	19:24	13h 07m	9h 35m					So, 26. Feb
Mo, 27. Feb		02:50*–04:58*	2h 08m	M <sub>\</sub> bis AN <sub>-</sub>	◐	09:53	01:40	05:00	36m	05:36	35m	06:12	33m	06:46	10h 53m	17:40	33m	18:13	35m	18:49	36m	19:26	13h 04m	9h 32m					Mo, 27. Feb
Di, 28. Feb		03:51*–04:56*	1h 04m	M <sub>\</sub> bis AN <sub>-</sub>		10:29	02:50	04:58	36m	05:34	35m	06:10	33m	06:44	10h 57m	17:41	33m	18:15	35m	18:51	36m	19:27	13h 00m	9h 28m					Di, 28. Feb
Mi, 1. Mär		04:42*–04:54*	11m	M <sub>\</sub> bis AN <sub>-</sub>		11:14	03:51	04:56	36m	05:33	35m	06:08	33m	06:42	11h 00m	17:43	33m	18:16	35m	18:52	36m	19:29	12h 57m	9h 25m					Mi, 1. Mär
Do, 2. Mär		—:—:—:—	–	Mond stört		12:09	04:42	04:54	36m	05:31	35m	06:06	33m	06:40	11h 04m	17:44	33m	18:18	35m	18:54	36m	19:30	12h 53m	9h 21m					Do, 2. Mär
Fr, 3. Mär		—:—:—:—	–	Mond stört		13:12	05:23	04:52	36m	05:29	35m	06:04	33m	06:38	11h 08m	17:46	33m	18:20	35m	18:55	36m	19:32	12h 50m	9h 17m					Fr, 3. Mär
Sa, 4. Mär		—:~:~:~:~	–	Mond stört		14:19	05:54	04:50	36m	05:27	35m	06:02	33m	06:36	11h 11m	17:48	33m	18:21	35m	18:57	36m	19:34	12h 46m	9h 14m					Sa, 4. Mär
So, 5. Mär		—:~:~:~:~	–	Mond stört		15:29	06:18	04:48	36m	05:25	35m	06:00	33m	06:34	11h 15m	17:49	33m	18:23	35m	18:58	36m	19:35	12h 42m	9h 10m					So, 5. Mär
Mo, 6. Mär		—:~:~:~:~	–	Mond stört		16:38	06:37	04:46	36m	05:23	35m	05:59	33m	06:32	11h 18m	17:51	33m	18:24	35m	19:00	36m	19:37	12h 39m	9h 07m					Mo, 6. Mär
Di, 7. Mär		—:~:~:~:~	–	Mond stört	○	17:48	06:53	04:44	36m	05:21	35m	05:57	33m	06:30	11h 22m	17:52	33m	18:26	35m	19:01	37m	19:38	12h 35m	9h 03m					Di, 7. Mär
Mi, 8. Mär		—:~:~:~:~	–	Mond stört		18:57	07:07	04:42	36m	05:19	35m	05:55	33m	06:28	11h 25m	17:54	33m	18:27	35m	19:03	37m	19:40	12h 32m	8h 59m					Mi, 8. Mär
Do, 9. Mär		19:42–20:07	25m	AN <sub>+</sub> bis M <sub>7</sub>		20:07	07:21	04:40	37m	05:17	35m	05:52	33m	06:26	11h 29m	17:55	33m	18:29	35m	19:05	37m	19:42	12h 28m	8h 55m					Do, 9. Mär
Fr, 10. Mär		19:43–21:19	1h 35m	AN <sub>+</sub> bis M <sub>7</sub>		21:19	07:35	04:38	37m	05:15	35m	05:50	33m	06:24	11h 33m	17:57	33m	18:30	35m	19:06	37m	19:43	12h 24m	8h 52m					Fr, 10. Mär
Sa, 11. Mär		19:45–22:34	2h 49m	AN <sub>+</sub> bis M <sub>7</sub>		22:34	07:51	04:35	37m	05:13	35m	05:48	33m	06:22	11h 36m	17:58	33m	18:32	35m	19:08	37m	19:45	12h 21m	8h 48m					Sa, 11. Mär
So, 12. Mär		19:47–23:52	4h 05m	AN <sub>+</sub> bis M <sub>7</sub>		23:52	08:10	04:33	37m	05:11	35m	05:46	33m	06:20	11h 40m	18:00	33m	18:33	35m	19:09	37m	19:47	12h 17m	8h 44m					So, 12. Mär
Mo, 13. Mär		19:48–01:11*	5h 22m	AN <sub>+</sub> bis M <sub>7</sub>		—:—	08:34	04:31	37m	05:08	35m	05:44	33m	06:18	11h 43m	18:01	33m	18:35	36m	19:11	37m	19:48	12h 14m	8h 40m					Mo, 13. Mär
Di, 14. Mär		19:50–02:27*	6h 36m	AN <sub>+</sub> bis M <sub>7</sub>		01:11	09:07	04:29	37m	05:06	35m	05:42	33m	06:16	11h 47m	18:03	33m	18:36	36m	19:12	37m	19:50	12h 10m	8h 36m					Di, 14. Mär
Mi, 15. Mär		19:52–03:33*	7h 41m	AN <sub>+</sub> bis M <sub>7</sub>	◑	02:27	09:53	04:27	37m	05:04	35m	05:40	33m	06:13	11h 51m	18:04	33m	18:38	36m	19:14	37m	19:52	12h 06m	8h 32m					Mi, 15. Mär
Do, 16. Mär		19:53–04:22*	8h 28m	AN <sub>+</sub> bis AN <sub>-</sub>		03:33	10:55	04:24	37m	05:02	36m	05:38	33m	06:11	11h 54m	18:06	33m	18:39	36m	19:16	37m	19:53	12h 03m	8h 28m					Do, 16. Mär
Fr, 17. Mär		19:55–04:20*	8h 24m	AN <sub>+</sub> bis AN <sub>-</sub>		04:25	12:12	04:22	37m	05:00	36m	05:36	33m	06:09	11h 58m	18:08	33m	18:41	36m	19:17	37m	19:55	11h 59m	8h 24m					Fr, 17. Mär
Sa, 18. Mär		19:57–04:17*	8h 20m	AN <sub>+</sub> bis AN <sub>-</sub>		05:04	13:39	04:20	37m	04:58	36m	05:34	33m	06:07	12h 01m	18:09	33m	18:42	36m	19:19	38m	19:57	11h 56m	8h 20m					Sa, 18. Mär
So, 19. Mär		19:59–04:15*	8h 16m	AN <sub>+</sub> bis AN <sub>-</sub>		05:33	15:07	04:17	38m	04:56	36m	05:32	33m	06:05	12h 05m	18:11	33m	18:44	36m	19:20	38m	19:59	11h 52m	8h 16m					So, 19. Mär
Mo, 20. Mär		20:00–04:13*	8h 12m	AN <sub>+</sub> bis AN <sub>-</sub>		05:55	16:34	04:15	38m	04:53	36m	05:30	33m	06:03	12h 09m	18:12	33m	18:46	36m	19:22	38m	20:00	11h 48m	8h 12m					Mo, 20. Mär
Di, 21. Mär		20:02–04:10*	8h 08m	AN <sub>+</sub> bis AN <sub>-</sub>	●	06:14	17:59	04:13	38m	04:51	36m	05:28	33m	06:01	12h 12m	18:14	33m	18:47	36m	19:24	38m	20:02	11h 45m	8h 08m					Di, 21. Mär
Mi, 22. Mär		20:04–04:08*	8h 04m	AN <sub>+</sub> bis AN <sub>-</sub>		06:31	19:21	04:10	38m	04:49	36m	05:25	33m	05:59	12h 16m	18:15	33m	18:49	36m	19:25	38m	20:04	11h 41m	8h 04m					Mi, 22. Mär
Do, 23. Mär		20:42–04:06*	7h 23m	M <sub>\</sub> bis AN <sub>-</sub>		06:47	20:42	04:08	38m	04:47	36m	05:23	33m	05:57	12h 19m	18:17	33m	18:50	36m	19:27	38m	20:06	11h 38m	8h 00m					Do, 23. Mär
Fr, 24. Mär		22:02–04:03*	6h 01m	M <sub>\</sub> bis AN <sub>-</sub>		07:05	22:02	04:06	38m	04:45	36m	05:21	33m	05:55	12h 23m	18:18	33m	18:52	36m	19:28	39m	20:08	11h 34m	7h 55m					Fr, 24. Mär
Sa, 25. Mär		23:20–04:01*	4h 40m	M <sub>\</sub> bis AN <sub>-</sub>		07:26	23:20	04:03	38m	04:42	36m	05:19	33m	05:53	12h 27m	18:20	33m	18:53	36m	19:30	39m	20:09	11h 30m	7h 51m					Sa, 25. Mär
So, 26. Mär	MESZ	01:35*–04:58*	3h 23m	M <sub>\</sub> bis AN <sub>-</sub>		08:51	00:20	05:01	39m	05:40	36m	06:17	33m	06:50	12h 30m	19:21	33m	19:55	36m	20:32	39m	21:11	11h 27m	7h 47m					So, 26. Mär
Mo, 27. Mär	MESZ	02:41*–04:56*	2h 14m	M <sub>\</sub> bis AN <sub>-</sub>		09:24	01:35	04:58	39m	05:38	36m	06:15	33m	06:48	12h 34m	19:23	33m	19:56	37m	20:33	39m	21:13	11h 23m	7h 43m					Mo, 27. Mär
Di, 28. Mär	MESZ	03:38*–04:54*	1h 15m	M <sub>\</sub> bis AN <sub>-</sub>		10:06	02:41	04:56	39m	05:36	37m	06:13	33m	06:46	12h 37m	19:24	33m	19:58	37m	20:35	39m	21:15	11h 20m	7h 38m					Di, 28. Mär
Mi, 29. Mär	MESZ	04:22*–04:51*	28m	M <sub>\</sub> bis AN <sub>-</sub>	◒	10:58	03:38	04:54	39m	05:33	37m	06:10	33m	06:44	12h 41m	19:26	33m	19:59	37m	20:37	39m	21:17	11h 16m	7h 34m					Mi, 29. Mär
Do, 30. Mär	MESZ	—:~:~:~:~	–	Mond stört		11:58	04:22	04:51	39m	05:31	37m	06:08	33m	06:42	12h 45m	19:27	33m	20:01	37m	20:38	40m	21:19	11h 12m	7h 29m					Do, 30. Mär
Fr, 31. Mär	MESZ	—:~:~:~:~	–	Mond stört		13:05	04:56	04:49	40m	05:29	37m	06:06	33m	06:40	12h 48m	19:29	33m	20:03	37m	20:40	40m	21:21	11h 09m	7h 25m					Fr, 31. Mär
Sa, 1. Apr	MESZ	—:~:~:~:~	–	Mond stört		14:14	05:22	04:46	40m	05:26	37m	06:04	33m	06:38	12h 52m	19:30	34m	20:04	37m	20:42	40m	21:22	11h 05m	7h 21m					Sa, 1. Apr
So, 2. Apr	MESZ	—:~:~:~:~	–	Mond stört		15:24	05:43	04:44	40m	05:24	37m	06:02	33m	06:36	12h 55m	19:32	34m	20:06	37m	20:44	40m	21:24	11h 02m	7h 16m					

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
2023	Zeit- zone	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung					Sonne			Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond			2023		
			$\Delta t$		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.	$\Delta t$	$\Delta t$		$\Delta t$		
Di, 11. Apr	MESZ	21:43–02:28*	4h 44m	AN <sub>+</sub> bis M <sub>7</sub>		01:18	08:50	04:20	43m	05:03	39m	05:43	34m	06:17	13h 27m	19:45	34m	20:20	39m	20:59	43m	21:43	10h 30m	6h 34m				Di, 11. Apr
Mi, 12. Apr	MESZ	21:45–03:24*	5h 38m	AN <sub>+</sub> bis M <sub>7</sub>		02:28	09:46	04:18	43m	05:01	39m	05:40	34m	06:15	13h 31m	19:46	35m	20:22	39m	21:01	43m	21:45	10h 26m	6h 30m				Mi, 12. Apr
Do, 13. Apr	MESZ	21:47–04:05*	6h 18m	AN <sub>+</sub> bis M <sub>7</sub>	☾	03:24	10:58	04:15	43m	04:59	39m	05:38	35m	06:13	13h 34m	19:48	35m	20:23	39m	21:03	44m	21:47	10h 23m	6h 25m				Do, 13. Apr
Fr, 14. Apr	MESZ	21:49–04:10*	6h 20m	AN <sub>+</sub> bis AN <sub>-</sub>		04:05	12:20	04:12	44m	04:57	39m	05:36	35m	06:11	13h 38m	19:49	35m	20:25	39m	21:05	44m	21:49	10h 19m	6h 20m				Fr, 14. Apr
Sa, 15. Apr	MESZ	21:51–04:07*	6h 15m	AN <sub>+</sub> bis AN <sub>-</sub>		04:36	13:45	04:10	44m	04:54	39m	05:34	35m	06:09	13h 41m	19:51	35m	20:26	40m	21:06	44m	21:51	10h 16m	6h 15m				Sa, 15. Apr
So, 16. Apr	MESZ	21:54–04:04*	6h 10m	AN <sub>+</sub> bis AN <sub>-</sub>		05:00	15:10	04:07	44m	04:52	40m	05:32	35m	06:07	13h 44m	19:52	35m	20:28	40m	21:08	45m	21:54	10h 13m	6h 10m				So, 16. Apr
Mo, 17. Apr	MESZ	21:56–04:02*	6h 05m	AN <sub>+</sub> bis AN <sub>-</sub>		05:19	16:34	04:04	45m	04:50	40m	05:30	35m	06:05	13h 48m	19:54	35m	20:30	40m	21:10	45m	21:56	10h 09m	6h 05m				Mo, 17. Apr
Di, 18. Apr	MESZ	21:58–03:59*	6h 00m	AN <sub>+</sub> bis AN <sub>-</sub>		05:35	17:55	04:02	45m	04:47	40m	05:28	35m	06:04	13h 51m	19:55	35m	20:31	40m	21:12	46m	21:58	10h 06m	6h 00m				Di, 18. Apr
Mi, 19. Apr	MESZ	22:01–03:56*	5h 55m	AN <sub>+</sub> bis AN <sub>-</sub>		05:51	19:15	03:59	46m	04:45	40m	05:26	35m	06:02	13h 55m	19:57	35m	20:33	41m	21:14	46m	22:01	10h 02m	5h 55m				Mi, 19. Apr
Do, 20. Apr	MESZ	22:03–03:53*	5h 50m	AN <sub>+</sub> bis AN <sub>-</sub>	☀	06:08	20:36	03:56	46m	04:43	41m	05:24	35m	06:00	13h 58m	19:58	36m	20:34	41m	21:16	47m	22:03	9h 59m	5h 50m				Do, 20. Apr
Fr, 21. Apr	MESZ	22:05–03:51*	5h 45m	AN <sub>+</sub> bis AN <sub>-</sub>		06:27	21:56	03:53	47m	04:40	41m	05:22	36m	05:58	14h 02m	20:00	36m	20:36	41m	21:18	47m	22:05	9h 56m	5h 45m				Fr, 21. Apr
Sa, 22. Apr	MESZ	23:13–03:48*	4h 34m	M <sub>\</sub> bis AN <sub>-</sub>		06:50	23:13	03:51	47m	04:38	41m	05:20	36m	05:56	14h 05m	20:01	36m	20:38	41m	21:20	48m	22:08	9h 52m	5h 40m				Sa, 22. Apr
So, 23. Apr	MESZ	00:25*–03:45*	3h 20m	M <sub>\</sub> bis AN <sub>-</sub>		07:20	—:—	03:48	48m	04:36	41m	05:18	36m	05:54	14h 08m	20:03	36m	20:39	42m	21:21	48m	22:10	9h 49m	5h 35m				So, 23. Apr
Mo, 24. Apr	MESZ	01:27*–03:42*	2h 14m	M <sub>\</sub> bis AN <sub>-</sub>		07:58	00:25	03:45	48m	04:34	42m	05:16	36m	05:52	14h 12m	20:04	36m	20:41	42m	21:23	49m	22:12	9h 46m	5h 29m				Mo, 24. Apr
Di, 25. Apr	MESZ	02:18*–03:40*	1h 21m	M <sub>\</sub> bis AN <sub>-</sub>		08:46	01:27	03:42	49m	04:31	42m	05:14	36m	05:50	14h 15m	20:06	36m	20:43	42m	21:25	49m	22:15	9h 42m	5h 24m				Di, 25. Apr
Mi, 26. Apr	MESZ	02:56*–03:37*	40m	M <sub>\</sub> bis AN <sub>-</sub>		09:44	02:18	03:40	49m	04:29	42m	05:12	36m	05:49	14h 18m	20:07	37m	20:44	42m	21:27	50m	22:17	9h 39m	5h 19m				Mi, 26. Apr
Do, 27. Apr	MESZ	03:25*–03:34*	8m	M <sub>\</sub> bis AN <sub>-</sub>	☾	10:49	02:56	03:37	50m	04:27	42m	05:10	36m	05:47	14h 21m	20:09	37m	20:46	43m	21:29	50m	22:20	9h 36m	5h 14m				Do, 27. Apr
Fr, 28. Apr	MESZ	—:—:—:—	–	Mond stört		11:58	03:25	03:34	50m	04:25	43m	05:08	37m	05:45	14h 25m	20:10	37m	20:48	43m	21:31	51m	22:22	9h 33m	5h 08m				Fr, 28. Apr
Sa, 29. Apr	MESZ	—:—:—:—	–	Mond stört		13:08	03:48	03:31	51m	04:22	43m	05:06	37m	05:43	14h 28m	20:12	37m	20:49	43m	21:33	51m	22:25	9h 29m	5h 03m				Sa, 29. Apr
So, 30. Apr	MESZ	—:—:~:~:~	–	Mond stört		14:17	04:06	03:28	51m	04:20	43m	05:04	37m	05:42	14h 31m	20:13	37m	20:51	44m	21:35	52m	22:28	9h 26m	4h 57m				So, 30. Apr
Mo, 1. Mai	MESZ	—:~:~:~:~	–	Mond stört		15:26	04:21	03:25	52m	04:18	44m	05:02	37m	05:40	14h 34m	20:15	37m	20:52	44m	21:37	53m	22:30	9h 23m	4h 52m				Mo, 1. Mai
Di, 2. Mai	MESZ	—:~:~:~:~	–	Mond stört		16:36	04:35	03:23	53m	04:16	44m	05:00	37m	05:38	14h 37m	20:16	38m	20:54	44m	21:39	53m	22:33	9h 20m	4h 46m				Di, 2. Mai
Mi, 3. Mai	MESZ	—:~:~:~:~	–	Mond stört		17:48	04:48	03:20	53m	04:14	44m	04:58	38m	05:36	14h 41m	20:17	38m	20:56	45m	21:41	54m	22:35	9h 17m	4h 41m				Mi, 3. Mai
Do, 4. Mai	MESZ	—:~:~:~:~	–	Mond stört		19:03	05:03	03:17	54m	04:12	45m	04:57	38m	05:35	14h 44m	20:19	38m	20:57	45m	21:43	55m	22:38	9h 14m	4h 35m				Do, 4. Mai
Fr, 5. Mai	MESZ	—:~:~:~:~	–	Mond stört	☽	20:21	05:20	03:14	55m	04:09	45m	04:55	38m	05:33	14h 47m	20:20	38m	20:59	45m	21:45	56m	22:41	9h 11m	4h 30m				Fr, 5. Mai
Sa, 6. Mai	MESZ	—:~:~:~:~	–	Mond stört		21:43	05:41	03:11	56m	04:07	45m	04:53	38m	05:32	14h 50m	20:22	38m	21:01	46m	21:47	56m	22:44	9h 08m	4h 24m				Sa, 6. Mai
So, 7. Mai	MESZ	22:46–23:04	17m	AN <sub>+</sub> bis M <sub>7</sub>		23:04	06:08	03:08	56m	04:05	46m	04:51	38m	05:30	14h 53m	20:23	38m	21:02	46m	21:49	57m	22:46	9h 05m	4h 18m				So, 7. Mai
Mo, 8. Mai	MESZ	22:49–00:19*	1h 29m	AN <sub>+</sub> bis M <sub>7</sub>		—:—	06:46	03:05	57m	04:03	46m	04:49	38m	05:28	14h 56m	20:25	39m	21:04	46m	21:51	58m	22:49	9h 02m	4h 13m				Mo, 8. Mai
Di, 9. Mai	MESZ	22:52–01:20*	2h 28m	AN <sub>+</sub> bis M <sub>7</sub>		00:19	07:39	03:02	58m	04:01	46m	04:48	39m	05:27	14h 59m	20:26	39m	21:05	47m	21:53	59m	22:52	8h 59m	4h 07m				Di, 9. Mai
Mi, 10. Mai	MESZ	22:55–02:07*	3h 11m	AN <sub>+</sub> bis M <sub>7</sub>		01:20	08:47	02:59	59m	03:59	47m	04:46	39m	05:25	15h 02m	20:27	39m	21:07	47m	21:55	1h 00m	22:55	8h 56m	4h 01m				Mi, 10. Mai
Do, 11. Mai	MESZ	22:58–02:40*	3h 42m	AN <sub>+</sub> bis M <sub>7</sub>		02:07	10:07	02:57	1h 00m	03:57	47m	04:44	39m	05:24	15h 04m	20:29	39m	21:09	47m	21:57	1h 01m	22:58	8h 53m	3h 55m				Do, 11. Mai
Fr, 12. Mai	MESZ	23:01–02:51*	3h 49m	AN <sub>+</sub> bis AN <sub>-</sub>	☾	02:40	11:32	02:54	1h 01m	03:55	47m	04:43	39m	05:23	15h 07m	20:30	39m	21:10	48m	21:58	1h 02m	23:01	8h 50m	3h 49m				Fr, 12. Mai
Sa, 13. Mai	MESZ	23:04–02:48*	3h 43m	AN <sub>+</sub> bis AN <sub>-</sub>		03:05	12:56	02:51	1h 02m	03:53	48m	04:41	39m	05:21	15h 10m	20:32	40m	21:12	48m	22:00	1h 03m	23:04	8h 48m	3h 43m				Sa, 13. Mai
So, 14. Mai	MESZ	23:07–02:45*	3h 37m	AN <sub>+</sub> bis AN <sub>-</sub>		03:25	14:18	02:48	1h 03m	03:51	48m	04:40	40m	05:20	15h 13m	20:33	40m	21:13	49m	22:02	1h 04m	23:07	8h 45m	3h 37m				So, 14. Mai
Mo, 15. Mai	MESZ	23:10–02:42*	3h 31m	AN <sub>+</sub> bis AN <sub>-</sub>		03:42	15:38	02:45	1h 04m	03:49	49m	04:38	40m	05:18	15h 15m	20:34	40m	21:15	49m	22:04	1h 05m	23:10	8h 42m	3h 31m				Mo, 15. Mai
Di, 16. Mai	MESZ	23:13–02:39*	3h 25m	AN <sub>+</sub> bis AN <sub>-</sub>		03:58	16:57	02:42	1h 05m	03:47	49m	04:37	40m	05:17	15h 18m	20:36	40m	21:16	49m	22:06	1h 06m	23:13	8h 40m	3h 25m				Di, 16. Mai
Mi, 17. Mai	MESZ	23:16–02:36*	3h 19m	AN <sub>+</sub> bis AN <sub>-</sub>		04:13	18:15	02:39	1h 06m	03:45	49m	04:35	40m	05:16	15h 21m	20:37	40m	21:18	50m	22:08	1h 07m	23:16	8h 37m	3h 19m				Mi, 17. Mai
Do, 18. Mai	MESZ	23:19–02:32*	3h 13m	AN <sub>+</sub> bis AN <sub>-</sub>		04:31	19:34	02:36	1h 07m	03:43	50m	04:34	40m	05:15	15h 23m	20:38	41m	21:19	50m	22:10	1h 09m	23:19	8h 35m	3h 13m				Do, 18. Mai
Fr, 19. Mai	MESZ	23:22–02:29*	3h 07m	AN <sub>+</sub> bis AN <sub>-</sub>	☀	04:52	20:52	02:32	1h 09m	03:42	50m	04:32	41m	05:13	15h 26m	20:40	41m	21:21	51m	22:12	1h 10m	23:22	8h 32m	3h 07m				Fr, 19. Mai
Sa, 20. Mai	MESZ	23:26–02:26*	3h 00m	AN <sub>+</sub> bis AN <sub>-</sub>		05:18	22:07	02:29	1h 10m	03:40	51m	04:31	41m	05:12	15h 28m	20:41	41m	21:22	51m	22:14	1h 11m	23:26	8h 30m	3h 00m				Sa, 20. Mai
So, 21. Mai	MESZ	23:29–02:23*	2h 54m	AN <sub>+</sub> bis AN <sub>-</sub>		05:52	23:14	02:26	1h 11m	03:38	51m	04:29	41m	05:11	15h 31m	20:42	41m	21:24	51m	22:16	1h 13m	23:29	8h 27m	2h 54m				So, 21. Mai
Mo, 22. Mai	MESZ	00:10*–02:20*	2h 10m	M <sub>\</sub> bis AN <sub>-</sub>		06:37	—:—	02:23	1h 13m	03:36	51m	04:28	41m	05:10	15h 33m	20:43	41m	21:25	52m	22:18	1h 14m	23:32	8h 25m</					

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
2023	Zeit- zone	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung					Sonne			Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond			2023		
			$\Delta t$		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.	$\Delta t$	$\Delta t$		$\Delta t$		
Mi, 31. Mai	MESZ	—:—:—:—	—	Mond stört		16:40	03:08	01:54	1h 29m	03:23	55m	04:18	43m	05:02	15h 51m	20:53	43m	21:37	55m	22:33	1h 31m	00:04*	8h 07m	1h 46m				Mi, 31. Mai
Do, 1. Jun	MESZ	—:—:—:—	—	Mond stört		17:57	03:23	01:50	1h 31m	03:22	55m	04:17	43m	05:01	15h 53m	20:54	43m	21:38	56m	22:34	1h 33m	00:08*	8h 05m	1h 38m				Do, 1. Jun
Fr, 2. Jun	MESZ	—:—:~:~:~	—	Mond stört		19:18	03:42	01:47	1h 33m	03:20	56m	04:17	43m	05:00	15h 55m	20:55	43m	21:39	56m	22:36	1h 36m	00:12*	8h 04m	1h 31m				Fr, 2. Jun
Sa, 3. Jun	MESZ	—:~:~:~:~	—	Mond stört		20:41	04:07	01:43	1h 36m	03:19	56m	04:16	43m	05:00	15h 56m	20:56	44m	21:40	56m	22:37	1h 39m	00:16*	8h 02m	1h 22m				Sa, 3. Jun
So, 4. Jun	MESZ	—:~:~:~:~	—	Mond stört	○	22:01	04:41	01:39	1h 38m	03:18	56m	04:15	44m	04:59	15h 58m	20:57	44m	21:41	57m	22:39	1h 42m	00:21*	8h 01m	1h 14m				So, 4. Jun
Mo, 5. Jun	MESZ	—:~:~:~:~	—	Mond stört		23:10	05:28	01:35	1h 42m	03:17	57m	04:14	44m	04:59	15h 59m	20:58	44m	21:42	57m	22:40	1h 45m	00:25*	8h 00m	1h 05m				Mo, 5. Jun
Di, 6. Jun	MESZ	—:~:~:~:~	—	Mond stört		—:—	06:32	01:31	1h 45m	03:16	57m	04:14	44m	04:58	16h 00m	20:59	44m	21:43	57m	22:41	1h 49m	00:30*	7h 58m	55m				Di, 6. Jun
Mi, 7. Jun	MESZ	00:36*—00:42*	6m	AN <sub>+</sub> bis M <sub>7</sub>		00:03	07:51	01:26	1h 49m	03:15	57m	04:13	44m	04:58	16h 02m	21:00	44m	21:44	58m	22:42	1h 53m	00:36*	7h 57m	44m				Mi, 7. Jun
Do, 8. Jun	MESZ	00:43*—01:10*	27m	AN <sub>+</sub> bis M <sub>7</sub>		00:42	09:17	01:21	1h 53m	03:14	58m	04:13	44m	04:57	16h 03m	21:00	44m	21:45	58m	22:44	1h 59m	00:43*	7h 56m	31m				Do, 8. Jun
Fr, 9. Jun	MESZ	00:56*—01:01*	5m	AN <sub>+</sub> bis AN <sub>-</sub>		01:10	10:44	01:14	1h 59m	03:14	58m	04:12	44m	04:57	16h 04m	21:01	44m	21:46	58m	22:45	2h 11m	00:56*	7h 55m	5m				Fr, 9. Jun
Sa, 10. Jun	MESZ			Astr. MD	◐	01:31	12:07	01:01	2h 11m	03:13	58m	04:12	44m	04:56	16h 05m	21:02	44m	21:47	58m	22:46		—:—	7h 54m		22:46—01:49*	3h 03m	ND <sub>+</sub> bis M <sub>7</sub>	Sa, 10. Jun
So, 11. Jun	MESZ			Astr. MD		01:49	13:27	—:—		03:12	58m	04:11	44m	04:56	16h 06m	21:02	45m	21:48	59m	22:47		—:—	7h 53m		22:47—02:05*	3h 18m	ND <sub>+</sub> bis M <sub>7</sub>	So, 11. Jun
Mo, 12. Jun	MESZ			Astr. MD		02:05	14:45	—:—		03:12	59m	04:11	45m	04:56	16h 07m	21:03	45m	21:48	59m	22:48		—:—	7h 52m		22:48—02:20*	3h 32m	ND <sub>+</sub> bis M <sub>7</sub>	Mo, 12. Jun
Di, 13. Jun	MESZ			Astr. MD		02:20	16:03	—:—		03:11	59m	04:11	45m	04:56	16h 07m	21:04	45m	21:49	59m	22:48		—:—	7h 51m		22:48—02:37*	3h 48m	ND <sub>+</sub> bis M <sub>7</sub>	Di, 13. Jun
Mi, 14. Jun	MESZ			Astr. MD		02:37	17:20	—:—		03:11	59m	04:10	45m	04:56	16h 08m	21:04	45m	21:49	59m	22:49		—:—	7h 51m		22:49—02:56*	4h 07m	ND <sub>+</sub> bis M <sub>7</sub>	Mi, 14. Jun
Do, 15. Jun	MESZ			Astr. MD		02:56	18:37	—:—		03:11	59m	04:10	45m	04:56	16h 09m	21:05	45m	21:50	59m	22:50		—:—	7h 50m		22:50—03:10*	4h 20m	ND <sub>+</sub> bis ND <sub>-</sub>	Do, 15. Jun
Fr, 16. Jun	MESZ			Astr. MD		03:20	19:52	—:—		03:10	59m	04:10	45m	04:55	16h 09m	21:05	45m	21:51	59m	22:50		—:—	7h 50m		22:50—03:10*	4h 19m	ND <sub>+</sub> bis ND <sub>-</sub>	Fr, 16. Jun
Sa, 17. Jun	MESZ			Astr. MD		03:51	21:01	—:—		03:10	59m	04:10	45m	04:55	16h 10m	21:06	45m	21:51	1h 00m	22:51		—:—	7h 49m		22:51—03:10*	4h 19m	ND <sub>+</sub> bis ND <sub>-</sub>	Sa, 17. Jun
So, 18. Jun	MESZ			Astr. MD	●	04:31	22:01	—:—		03:10	1h 00m	04:10	45m	04:56	16h 10m	21:06	45m	21:51	1h 00m	22:51		—:—	7h 49m		22:51—03:10*	4h 18m	ND <sub>+</sub> bis ND <sub>-</sub>	So, 18. Jun
Mo, 19. Jun	MESZ			Astr. MD		05:22	22:49	—:—		03:10	1h 00m	04:10	45m	04:56	16h 10m	21:06	45m	21:52	1h 00m	22:52		—:—	7h 49m		22:52—03:10*	4h 18m	ND <sub>+</sub> bis ND <sub>-</sub>	Mo, 19. Jun
Di, 20. Jun	MESZ			Astr. MD		06:22	23:26	—:—		03:10	1h 00m	04:10	45m	04:56	16h 10m	21:07	45m	21:52	1h 00m	22:52		—:—	7h 49m		23:26—03:10*	3h 44m	M <sub>v</sub> bis ND <sub>-</sub>	Di, 20. Jun
Mi, 21. Jun	MESZ			Astr. MD		07:29	23:53	—:—		03:10	1h 00m	04:10	45m	04:56	16h 10m	21:07	45m	21:52	1h 00m	22:52		—:—	7h 49m		23:53—03:10*	3h 17m	M <sub>v</sub> bis ND <sub>-</sub>	Mi, 21. Jun
Do, 22. Jun	MESZ			Astr. MD		08:38	—:—	—:—		03:10	1h 00m	04:11	45m	04:56	16h 10m	21:07	45m	21:52	1h 00m	22:53		—:—	7h 49m		00:14*—03:11*	2h 56m	M <sub>v</sub> bis ND <sub>-</sub>	Do, 22. Jun
Fr, 23. Jun	MESZ			Astr. MD		09:47	00:14	—:—		03:11	1h 00m	04:11	45m	04:56	16h 10m	21:07	45m	21:53	1h 00m	22:53		—:—	7h 49m		00:32*—03:11*	2h 39m	M <sub>v</sub> bis ND <sub>-</sub>	Fr, 23. Jun
Sa, 24. Jun	MESZ			Astr. MD		10:55	00:32	—:—		03:11	1h 00m	04:11	45m	04:57	16h 10m	21:07	45m	21:53	1h 00m	22:53		—:—	7h 49m		00:46*—03:12*	2h 25m	M <sub>v</sub> bis ND <sub>-</sub>	Sa, 24. Jun
So, 25. Jun	MESZ			Astr. MD		12:03	00:46	—:—		03:12	1h 00m	04:12	45m	04:57	16h 10m	21:07	45m	21:53	59m	22:53		—:—	7h 50m		01:00*—03:12*	2h 12m	M <sub>v</sub> bis ND <sub>-</sub>	So, 25. Jun
Mo, 26. Jun	MESZ			Astr. MD	◑	13:11	01:00	—:—		03:12	59m	04:12	45m	04:57	16h 09m	21:07	45m	21:53	59m	22:52		—:—	7h 50m		01:13*—03:13*	1h 59m	M <sub>v</sub> bis ND <sub>-</sub>	Mo, 26. Jun
Di, 27. Jun	MESZ			Astr. MD		14:21	01:13	—:—		03:13	59m	04:13	45m	04:58	16h 09m	21:07	45m	21:52	59m	22:52		—:—	7h 51m		01:27*—03:13*	1h 46m	M <sub>v</sub> bis ND <sub>-</sub>	Di, 27. Jun
Mi, 28. Jun	MESZ			Astr. MD		15:34	01:27	—:—		03:13	59m	04:13	45m	04:58	16h 08m	21:07	45m	21:52	59m	22:52		—:—	7h 51m		01:44*—03:14*	1h 30m	M <sub>v</sub> bis ND <sub>-</sub>	Mi, 28. Jun
Do, 29. Jun	MESZ			Astr. MD		16:51	01:44	—:—		03:14	59m	04:14	45m	04:59	16h 08m	21:07	45m	21:52	59m	22:52		—:—	7h 52m		02:05*—03:15*	1h 09m	M <sub>v</sub> bis ND <sub>-</sub>	Do, 29. Jun
Fr, 30. Jun	MESZ			Astr. MD		18:12	02:05	—:—		03:15	59m	04:14	45m	04:59	16h 07m	21:07	45m	21:52	59m	22:51		—:—	7h 53m		02:34*—03:16*	41m	M <sub>v</sub> bis ND <sub>-</sub>	Fr, 30. Jun
Sa, 1. Jul	MESZ			Astr. MD		19:34	02:34	—:—		03:16	59m	04:15	45m	05:00	16h 06m	21:07	44m	21:52	58m	22:51		—:—	7h 54m		03:14*—03:17*	2m	M <sub>v</sub> bis ND <sub>-</sub>	Sa, 1. Jul
So, 2. Jul	MESZ			Astr. MD		20:50	03:14	—:—		03:17	58m	04:16	44m	05:01	16h 05m	21:06	44m	21:51	58m	22:50		—:—	7h 54m		—:~:~:~:~	—	Mond stört	So, 2. Jul
Mo, 3. Jul	MESZ	—:~:~:~:~	—	Mond stört	○	21:52	04:12	—:—		03:18	58m	04:16	44m	05:01	16h 04m	21:06	44m	21:51	58m	22:49	2h 02m	00:51*	7h 56m	25m				Mo, 3. Jul
Di, 4. Jul	MESZ	—:~:~:~:~	—	Mond stört		22:38	05:26	01:17	2h 02m	03:19	58m	04:17	44m	05:02	16h 03m	21:06	44m	21:50	58m	22:48	1h 55m	00:44*	7h 57m	40m				Di, 4. Jul
Mi, 5. Jul	MESZ	—:~:~:~:~	—	Mond stört		23:11	06:53	01:24	1h 55m	03:20	58m	04:18	44m	05:03	16h 02m	21:05	44m	21:50	57m	22:48	1h 50m	00:38*	7h 58m	52m				Mi, 5. Jul
Do, 6. Jul	MESZ	—:~:~:~:~	—	Mond stört		23:35	08:23	01:30	1h 50m	03:21	57m	04:19	44m	05:03	16h 01m	21:05	44m	21:49	57m	22:47	1h 46m	00:33*	7h 59m	1h 02m				Do, 6. Jul
Fr, 7. Jul	MESZ	—:~:~:~:~	—	Mond stört		23:54	09:50	01:36	1h 46m	03:22	57m	04:20	44m	05:04	15h 59m	21:04	44m	21:49	57m	22:46	1h 43m	00:29*	8h 00m	1h 11m				Fr, 7. Jul
Sa, 8. Jul	MESZ	—:~:~:~:~	—	Mond stört		—:—	11:14	01:40	1h 43m	03:24	57m	04:21	44m	05:05	15h 58m	21:04	44m	21:48	56m	22:45	1h 40m	00:25*	8h 02m	1h 19m				Sa, 8. Jul
So, 9. Jul	MESZ	00:21*—00:27*	5m	AN <sub>+</sub> bis M <sub>7</sub>		00:11	12:34	01:45	1h 40m	03:25	56m	04:22	44m	05:06	15h 57m	21:03	43m	21:47	56m	22:44	1h 37m	00:21*	8h 03m	1h 28m				So, 9. Jul
Mo, 10. Jul	MESZ	00:17*—00:43*	25m	AN <sub>+</sub> bis M <sub>7</sub>	◑	00:27	13:53	01:49	1h 37m	03:26	56m	04:23	43m	05:07	15h 55m	21:02	43m	21:46	56m	22:43	1h 34m	00:17*	8h 05m	1h 35m				Mo, 10. Jul
Di, 11. Jul	MESZ	00:14*—01:02*	47m	AN <sub>+</sub> bis M <sub>7</sub>		00:43	15:10	01:53	1h 34m	03:28	56m	04:24	43m	05:08	15h 54m	21:02	43m	21:45	55m	22:41	1h 32m	00:14*	8h 06m	1h 43m				Di, 11. Jul
Mi, 12. Jul	MESZ	00:10*—01:24*	1h 13m	AN <sub>+</sub> bis M <sub>7</sub>		01:02	16:27	01:57	1h 32m	03:29	55m	04:25	43m	05:09	15h 52m	21:01	43m	21:45	55m	22:40	1h 29m	00:10*	8h 08m	1h 50m				Mi, 12. Jul
Do, 13. Jul	MESZ	00:07*—01:52*	1h 45m	AN <sub>+</sub> bis M <sub>7</sub>		01:24																						



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
2023	Zeit- zone	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung					Sonne			Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond			2023		
			$\Delta t$		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.	$\Delta t$	$\Delta t$		$\Delta t$		
Do, 20. Jul	MESZ	23:44–02:29*	2h 45m	AN <sub>+</sub> bis AN <sub>-</sub>		07:36	22:37	02:25	1h 16m	03:42	52m	04:35	42m	05:17	15h 36m	20:54	42m	21:36	52m	22:28	1h 15m	23:44	8h 24m	2h 45m				Do, 20. Jul
Fr, 21. Jul	MESZ	23:40–02:32*	2h 51m	AN <sub>+</sub> bis AN <sub>-</sub>		08:44	22:52	02:29	1h 15m	03:44	52m	04:36	42m	05:18	15h 34m	20:53	41m	21:35	52m	22:27	1h 13m	23:40	8h 26m	2h 51m				Fr, 21. Jul
Sa, 22. Jul	MESZ	23:37–02:35*	2h 57m	AN <sub>+</sub> bis AN <sub>-</sub>		09:52	23:06	02:32	1h 13m	03:46	52m	04:38	41m	05:20	15h 32m	20:52	41m	21:33	51m	22:25	1h 12m	23:37	8h 29m	2h 57m				Sa, 22. Jul
So, 23. Jul	MESZ	23:34–02:38*	3h 04m	AN <sub>+</sub> bis AN <sub>-</sub>		10:59	23:19	02:35	1h 12m	03:48	51m	04:39	41m	05:21	15h 29m	20:51	41m	21:32	51m	22:23	1h 10m	23:34	8h 31m	3h 04m				So, 23. Jul
Mo, 24. Jul	MESZ	23:32–02:42*	3h 09m	M <sub>\</sub> bis AN <sub>-</sub>		12:07	23:32	02:38	1h 10m	03:49	51m	04:41	41m	05:22	15h 27m	20:49	41m	21:31	50m	22:21	1h 09m	23:31	8h 33m	3h 10m				Mo, 24. Jul
Di, 25. Jul	MESZ	23:47–02:45*	2h 57m	M <sub>\</sub> bis AN <sub>-</sub>		13:17	23:47	02:42	1h 09m	03:51	50m	04:42	41m	05:23	15h 24m	20:48	41m	21:29	50m	22:20	1h 08m	23:28	8h 36m	3h 16m				Di, 25. Jul
Mi, 26. Jul	MESZ	00:06*–02:48*	2h 41m	M <sub>\</sub> bis AN <sub>-</sub>	☾	14:30	—:—	02:45	1h 08m	03:53	50m	04:44	41m	05:25	15h 22m	20:47	40m	21:28	50m	22:18	1h 07m	23:25	8h 38m	3h 22m				Mi, 26. Jul
Do, 27. Jul	MESZ	00:30*–02:51*	2h 20m	M <sub>\</sub> bis AN <sub>-</sub>		15:48	00:06	02:48	1h 07m	03:55	50m	04:45	40m	05:26	15h 19m	20:46	40m	21:26	49m	22:16	1h 06m	23:22	8h 41m	3h 28m				Do, 27. Jul
Fr, 28. Jul	MESZ	01:04*–02:54*	1h 50m	M <sub>\</sub> bis AN <sub>-</sub>		17:08	00:30	02:51	1h 06m	03:57	49m	04:46	40m	05:27	15h 17m	20:44	40m	21:25	49m	22:14	1h 04m	23:19	8h 44m	3h 34m				Fr, 28. Jul
Sa, 29. Jul	MESZ	01:51*–02:57*	1h 05m	M <sub>\</sub> bis AN <sub>-</sub>		18:26	01:04	02:54	1h 04m	03:59	49m	04:48	40m	05:28	15h 14m	20:43	40m	21:23	48m	22:12	1h 03m	23:16	8h 46m	3h 40m				Sa, 29. Jul
So, 30. Jul	MESZ	02:57*–03:00*	2m	M <sub>\</sub> bis AN <sub>-</sub>		19:35	01:51	02:57	1h 03m	04:01	48m	04:49	40m	05:30	15h 11m	20:42	40m	21:22	48m	22:10	1h 02m	23:13	8h 49m	3h 46m				So, 30. Jul
Mo, 31. Jul	MESZ	—:—:—:—	–	Mond stört		20:28	02:57	03:00	1h 02m	04:02	48m	04:51	40m	05:31	15h 09m	20:40	39m	21:20	48m	22:08	1h 01m	23:10	8h 52m	3h 52m				Mo, 31. Jul
Di, 1. Aug	MESZ	—:—:—:—	–	Mond stört	☾	21:07	04:20	03:02	1h 01m	04:04	48m	04:52	39m	05:32	15h 06m	20:39	39m	21:18	47m	22:06	1h 00m	23:07	8h 54m	3h 58m				Di, 1. Aug
Mi, 2. Aug	MESZ	—:—:~:~	–	Mond stört		21:36	05:50	03:05	1h 00m	04:06	47m	04:54	39m	05:34	15h 03m	20:37	39m	21:17	47m	22:04	59m	23:04	8h 57m	4h 04m				Mi, 2. Aug
Do, 3. Aug	MESZ	—:~:~:~	–	Mond stört		21:57	07:22	03:08	59m	04:08	47m	04:56	39m	05:35	15h 00m	20:36	39m	21:15	46m	22:02	59m	23:01	9h 00m	4h 09m				Do, 3. Aug
Fr, 4. Aug	MESZ	—:~:~:~	–	Mond stört		22:15	08:51	03:11	59m	04:10	47m	04:57	39m	05:36	14h 57m	20:34	39m	21:13	46m	22:00	58m	22:58	9h 03m	4h 15m				Fr, 4. Aug
Sa, 5. Aug	MESZ	—:~:~:~	–	Mond stört		22:32	10:15	03:14	58m	04:12	46m	04:59	39m	05:38	14h 54m	20:33	38m	21:12	46m	21:58	57m	22:55	9h 06m	4h 21m				Sa, 5. Aug
So, 6. Aug	MESZ	—:~:~:~	–	Mond stört		22:48	11:37	03:16	57m	04:14	46m	05:00	38m	05:39	14h 51m	20:31	38m	21:10	45m	21:56	56m	22:52	9h 09m	4h 26m				So, 6. Aug
Mo, 7. Aug	MESZ	22:49–23:06	16m	AN <sub>+</sub> bis M <sub>7</sub>		23:06	12:57	03:19	56m	04:16	45m	05:02	38m	05:40	14h 48m	20:29	38m	21:08	45m	21:54	55m	22:49	9h 12m	4h 32m				Mo, 7. Aug
Di, 8. Aug	MESZ	22:46–23:27	40m	AN <sub>+</sub> bis M <sub>7</sub>	☾	23:27	14:16	03:22	55m	04:18	45m	05:03	38m	05:42	14h 45m	20:28	38m	21:06	45m	21:51	55m	22:46	9h 15m	4h 37m				Di, 8. Aug
Mi, 9. Aug	MESZ	22:44–23:54	1h 09m	AN <sub>+</sub> bis M <sub>7</sub>		23:54	15:33	03:24	55m	04:20	45m	05:05	38m	05:43	14h 42m	20:26	38m	21:04	44m	21:49	54m	22:44	9h 18m	4h 43m				Mi, 9. Aug
Do, 10. Aug	MESZ	22:41–00:28*	1h 46m	AN <sub>+</sub> bis M <sub>7</sub>		—:—	16:46	03:27	54m	04:21	44m	05:06	38m	05:45	14h 39m	20:24	37m	21:02	44m	21:47	53m	22:41	9h 21m	4h 48m				Do, 10. Aug
Fr, 11. Aug	MESZ	22:38–01:11*	2h 33m	AN <sub>+</sub> bis M <sub>7</sub>		00:28	17:51	03:30	53m	04:23	44m	05:08	37m	05:46	14h 36m	20:23	37m	21:01	44m	21:45	53m	22:38	9h 24m	4h 54m				Fr, 11. Aug
Sa, 12. Aug	MESZ	22:35–02:06*	3h 30m	AN <sub>+</sub> bis M <sub>7</sub>		01:11	18:45	03:32	53m	04:25	44m	05:10	37m	05:47	14h 33m	20:21	37m	20:59	43m	21:43	52m	22:35	9h 27m	4h 59m				Sa, 12. Aug
So, 13. Aug	MESZ	22:32–03:09*	4h 36m	AN <sub>+</sub> bis M <sub>7</sub>		02:06	19:28	03:35	52m	04:27	43m	05:11	37m	05:49	14h 30m	20:19	37m	20:57	43m	21:40	51m	22:32	9h 30m	5h 05m				So, 13. Aug
Mo, 14. Aug	MESZ	22:29–03:40*	5h 10m	AN <sub>+</sub> bis AN <sub>-</sub>		03:09	20:00	03:37	51m	04:29	43m	05:13	37m	05:50	14h 27m	20:18	37m	20:55	43m	21:38	51m	22:29	9h 34m	5h 10m				Mo, 14. Aug
Di, 15. Aug	MESZ	22:26–03:42*	5h 15m	AN <sub>+</sub> bis AN <sub>-</sub>		04:17	20:25	03:40	51m	04:31	43m	05:14	37m	05:52	14h 24m	20:16	37m	20:53	43m	21:36	50m	22:26	9h 37m	5h 15m				Di, 15. Aug
Mi, 16. Aug	MESZ	22:24–03:45*	5h 20m	AN <sub>+</sub> bis AN <sub>-</sub>	☾	05:26	20:44	03:42	50m	04:33	43m	05:16	37m	05:53	14h 20m	20:14	36m	20:51	42m	21:34	49m	22:24	9h 40m	5h 20m				Mi, 16. Aug
Do, 17. Aug	MESZ	22:21–03:47*	5h 26m	AN <sub>+</sub> bis AN <sub>-</sub>		06:35	21:00	03:45	50m	04:35	42m	05:17	36m	05:54	14h 17m	20:12	36m	20:49	42m	21:31	49m	22:21	9h 43m	5h 26m				Do, 17. Aug
Fr, 18. Aug	MESZ	22:18–03:49*	5h 31m	AN <sub>+</sub> bis AN <sub>-</sub>		07:43	21:13	03:47	49m	04:36	42m	05:19	36m	05:56	14h 14m	20:10	36m	20:47	42m	21:29	48m	22:18	9h 46m	5h 31m				Fr, 18. Aug
Sa, 19. Aug	MESZ	22:15–03:52*	5h 36m	AN <sub>+</sub> bis AN <sub>-</sub>		08:50	21:26	03:49	48m	04:38	42m	05:21	36m	05:57	14h 11m	20:08	36m	20:45	41m	21:27	48m	22:15	9h 50m	5h 36m				Sa, 19. Aug
So, 20. Aug	MESZ	22:12–03:54*	5h 41m	AN <sub>+</sub> bis AN <sub>-</sub>		09:57	21:39	03:52	48m	04:40	42m	05:22	36m	05:59	14h 07m	20:07	36m	20:43	41m	21:25	47m	22:12	9h 53m	5h 41m				So, 20. Aug
Mo, 21. Aug	MESZ	22:10–03:56*	5h 46m	AN <sub>+</sub> bis AN <sub>-</sub>		11:06	21:53	03:54	47m	04:42	41m	05:24	36m	06:00	14h 04m	20:05	36m	20:41	41m	21:22	47m	22:10	9h 56m	5h 46m				Mo, 21. Aug
Di, 22. Aug	MESZ	22:10–03:59*	5h 48m	M <sub>\</sub> bis AN <sub>-</sub>		12:17	22:10	03:56	47m	04:44	41m	05:25	36m	06:01	14h 01m	20:03	36m	20:39	41m	21:20	46m	22:07	10h 00m	5h 51m				Di, 22. Aug
Mi, 23. Aug	MESZ	22:31–04:01*	5h 30m	M <sub>\</sub> bis AN <sub>-</sub>		13:32	22:31	03:59	46m	04:46	41m	05:27	36m	06:03	13h 57m	20:01	35m	20:37	40m	21:18	46m	22:04	10h 03m	5h 56m				Mi, 23. Aug
Do, 24. Aug	MESZ	22:59–04:03*	5h 04m	M <sub>\</sub> bis AN <sub>-</sub>	☾	14:49	22:59	04:01	46m	04:47	41m	05:28	35m	06:04	13h 54m	19:59	35m	20:35	40m	21:15	46m	22:01	10h 06m	6h 01m				Do, 24. Aug
Fr, 25. Aug	MESZ	23:39–04:05*	4h 26m	M <sub>\</sub> bis AN <sub>-</sub>		16:07	23:39	04:03	46m	04:49	40m	05:30	35m	06:06	13h 51m	19:57	35m	20:32	40m	21:13	45m	21:59	10h 10m	6h 06m				Fr, 25. Aug
Sa, 26. Aug	MESZ	00:34*–04:07*	3h 33m	M <sub>\</sub> bis AN <sub>-</sub>		17:18	—:—	04:05	45m	04:51	40m	05:31	35m	06:07	13h 47m	19:55	35m	20:30	40m	21:11	45m	21:56	10h 13m	6h 11m				Sa, 26. Aug
So, 27. Aug	MESZ	01:48*–04:09*	2h 21m	M <sub>\</sub> bis AN <sub>-</sub>		18:17	00:34	04:07	45m	04:53	40m	05:33	35m	06:08	13h 44m	19:53	35m	20:28	40m	21:08	44m	21:53	10h 16m	6h 16m				So, 27. Aug
Mo, 28. Aug	MESZ	03:14*–04:12*	57m	M <sub>\</sub> bis AN <sub>-</sub>		19:01	01:48	04:09	44m	04:54	40m	05:34	35m	06:10	13h 41m	19:51	35m	20:26	39m	21:06	44m	21:51	10h 20m	6h 21m				Mo, 28. Aug
Di, 29. Aug	MESZ	—:~:~:~	–	Mond stört		19:34	03:14	04:12	44m	04:56	39m	05:36	35m	06:11	13h 37m	19:49	35m	20:24	39m	21:04	44m	21:48	10h 23m	6h 25m				Di, 29. Aug
Mi, 30. Aug	MESZ	—:~:~:~	–	Mond stört		19:58	04:46	04:14	44m	04:58	39m	05:38	35m	06:13	13h 34m	19:47	35m	20:22	39m	21:01	43m	21:45	10h 27m	6h 30m				

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	
2023	Zeit- zone	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung					Sonne				Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond			2023		
			$\Delta t$		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.	$\Delta t$	$\Delta t$		$\Delta t$			
Fr, 8. Sep	MESZ	21:22–23:58	2h 36m	AN <sub>+</sub> bis M <sub>7</sub>		23:58	16:43	04:32	41m	05:13	38m	05:51	34m	06:25	13h 02m	19:28	34m	20:02	37m	20:40	41m	21:22	10h 58m	7h 11m					Fr, 8. Sep
Sa, 9. Sep	MESZ	21:19–00:59*	3h 40m	AN <sub>+</sub> bis M <sub>7</sub>		—:—	17:29	04:33	41m	05:15	37m	05:53	34m	06:27	12h 59m	19:26	34m	20:00	37m	20:38	40m	21:19	11h 01m	7h 16m					Sa, 9. Sep
So, 10. Sep	MESZ	21:16–02:06*	4h 49m	AN <sub>+</sub> bis M <sub>7</sub>		00:59	18:04	04:35	40m	05:16	37m	05:54	34m	06:28	12h 55m	19:24	34m	19:58	37m	20:36	40m	21:16	11h 05m	7h 20m					So, 10. Sep
Mo, 11. Sep	MESZ	21:14–03:16*	6h 01m	AN <sub>+</sub> bis M <sub>7</sub>		02:06	18:30	04:37	40m	05:18	37m	05:56	34m	06:30	12h 52m	19:22	33m	19:56	37m	20:33	40m	21:14	11h 08m	7h 25m					Mo, 11. Sep
Di, 12. Sep	MESZ	21:11–04:25*	7h 13m	AN <sub>+</sub> bis M <sub>7</sub>		03:16	18:51	04:39	40m	05:19	37m	05:57	33m	06:31	12h 48m	19:20	33m	19:54	37m	20:31	40m	21:11	11h 12m	7h 29m					Di, 12. Sep
Mi, 13. Sep	MESZ	21:09–04:43*	7h 33m	AN <sub>+</sub> bis AN <sub>-</sub>		04:25	19:07	04:41	40m	05:21	37m	05:59	33m	06:32	12h 45m	19:18	33m	19:52	37m	20:29	39m	21:09	11h 16m	7h 33m					Mi, 13. Sep
Do, 14. Sep	MESZ	21:06–04:44*	7h 38m	AN <sub>+</sub> bis AN <sub>-</sub>		05:34	19:21	04:43	40m	05:23	37m	06:00	33m	06:34	12h 41m	19:16	33m	19:49	37m	20:27	39m	21:06	11h 19m	7h 38m					Do, 14. Sep
Fr, 15. Sep	MESZ	21:04–04:46*	7h 42m	AN <sub>+</sub> bis AN <sub>-</sub>	●	06:41	19:34	04:44	39m	05:24	37m	06:01	33m	06:35	12h 38m	19:14	33m	19:47	37m	20:24	39m	21:04	11h 23m	7h 42m					Fr, 15. Sep
Sa, 16. Sep	MESZ	21:01–04:48*	7h 46m	AN <sub>+</sub> bis AN <sub>-</sub>		07:49	19:47	04:46	39m	05:26	37m	06:03	33m	06:37	12h 34m	19:11	33m	19:45	36m	20:22	39m	21:01	11h 26m	7h 46m					Sa, 16. Sep
So, 17. Sep	MESZ	20:59–04:50*	7h 50m	AN <sub>+</sub> bis AN <sub>-</sub>		08:57	20:00	04:48	39m	05:27	36m	06:04	33m	06:38	12h 31m	19:09	33m	19:43	36m	20:20	39m	20:59	11h 30m	7h 50m					So, 17. Sep
Mo, 18. Sep	MESZ	20:56–04:51*	7h 55m	AN <sub>+</sub> bis AN <sub>-</sub>		10:08	20:16	04:50	39m	05:29	36m	06:06	33m	06:40	12h 27m	19:07	33m	19:41	36m	20:17	39m	20:56	11h 33m	7h 55m					Mo, 18. Sep
Di, 19. Sep	MESZ	20:54–04:53*	7h 59m	AN <sub>+</sub> bis AN <sub>-</sub>		11:22	20:35	04:51	39m	05:31	36m	06:07	33m	06:41	12h 24m	19:05	33m	19:39	36m	20:15	38m	20:54	11h 37m	7h 59m					Di, 19. Sep
Mi, 20. Sep	MESZ	21:00–04:55*	7h 54m	M <sub>\</sub> bis AN <sub>-</sub>		12:38	21:00	04:53	38m	05:32	36m	06:09	33m	06:42	12h 20m	19:03	33m	19:36	36m	20:13	38m	20:52	11h 40m	8h 03m					Mi, 20. Sep
Do, 21. Sep	MESZ	21:34–04:57*	7h 22m	M <sub>\</sub> bis AN <sub>-</sub>		13:54	21:34	04:55	38m	05:34	36m	06:10	33m	06:44	12h 17m	19:01	33m	19:34	36m	20:11	38m	20:49	11h 44m	8h 07m					Do, 21. Sep
Fr, 22. Sep	MESZ	22:22–04:58*	6h 35m	M <sub>\</sub> bis AN <sub>-</sub>	☾	15:06	22:22	04:57	38m	05:35	36m	06:12	33m	06:45	12h 13m	18:59	33m	19:32	36m	20:08	38m	20:47	11h 47m	8h 11m					Fr, 22. Sep
Sa, 23. Sep	MESZ	23:27–05:00*	5h 33m	M <sub>\</sub> bis AN <sub>-</sub>		16:08	23:27	04:58	38m	05:37	36m	06:13	33m	06:47	12h 09m	18:57	33m	19:30	36m	20:06	38m	20:44	11h 51m	8h 15m					Sa, 23. Sep
So, 24. Sep	MESZ	00:46*–05:02*	4h 15m	M <sub>\</sub> bis AN <sub>-</sub>		16:56	—:—	05:00	38m	05:38	36m	06:15	33m	06:48	12h 06m	18:54	33m	19:28	36m	20:04	38m	20:42	11h 55m	8h 19m					So, 24. Sep
Mo, 25. Sep	MESZ	02:13*–05:03*	2h 50m	M <sub>\</sub> bis AN <sub>-</sub>		17:32	00:46	05:02	38m	05:40	36m	06:16	33m	06:49	12h 02m	18:52	33m	19:26	36m	20:02	37m	20:40	11h 58m	8h 23m					Mo, 25. Sep
Di, 26. Sep	MESZ	03:43*–05:05*	1h 22m	M <sub>\</sub> bis AN <sub>-</sub>		17:59	02:13	05:03	38m	05:41	36m	06:17	33m	06:51	11h 59m	18:50	33m	19:24	36m	20:00	37m	20:37	12h 02m	8h 27m					Di, 26. Sep
Mi, 27. Sep	MESZ	—:—:—:—	–	Mond stört		18:20	03:43	05:05	37m	05:43	36m	06:19	33m	06:52	11h 55m	18:48	33m	19:21	36m	19:57	37m	20:35	12h 05m	8h 31m					Mi, 27. Sep
Do, 28. Sep	MESZ	—:—:—:—	–	Mond stört		18:38	05:11	05:06	37m	05:44	36m	06:20	33m	06:54	11h 52m	18:46	33m	19:19	35m	19:55	37m	20:33	12h 09m	8h 35m					Do, 28. Sep
Fr, 29. Sep	MESZ	—:—:—:—	–	Mond stört	☾	18:54	06:38	05:08	37m	05:46	36m	06:22	33m	06:55	11h 48m	18:44	33m	19:17	35m	19:53	37m	20:31	12h 12m	8h 39m					Fr, 29. Sep
Sa, 30. Sep	MESZ	—:—:—:—	–	Mond stört		19:11	08:03	05:10	37m	05:47	36m	06:23	33m	06:57	11h 45m	18:42	33m	19:15	35m	19:51	37m	20:28	12h 16m	8h 42m					Sa, 30. Sep
So, 1. Okt	MESZ	—:—:—:—	–	Mond stört		19:30	09:28	05:11	37m	05:49	35m	06:25	33m	06:58	11h 41m	18:40	33m	19:13	35m	19:49	37m	20:26	12h 19m	8h 46m					So, 1. Okt
Mo, 2. Okt	MESZ	—:—:~:~:~	–	Mond stört		19:53	10:52	05:13	37m	05:50	35m	06:26	33m	07:00	11h 38m	18:38	33m	19:11	35m	19:47	37m	20:24	12h 23m	8h 50m					Mo, 2. Okt
Di, 3. Okt	MESZ	20:22–20:22	0m	AN <sub>+</sub> bis M <sub>7</sub>		20:22	12:14	05:14	37m	05:52	35m	06:28	33m	07:01	11h 34m	18:35	33m	19:09	35m	19:45	37m	20:22	12h 26m	8h 54m					Di, 3. Okt
Mi, 4. Okt	MESZ	20:20–21:00	40m	AN <sub>+</sub> bis M <sub>7</sub>		21:00	13:29	05:16	37m	05:53	35m	06:29	33m	07:02	11h 30m	18:33	33m	19:07	35m	19:43	37m	20:20	12h 30m	8h 57m					Mi, 4. Okt
Do, 5. Okt	MESZ	20:17–21:49	1h 31m	AN <sub>+</sub> bis M <sub>7</sub>		21:49	14:35	05:18	37m	05:55	35m	06:31	33m	07:04	11h 27m	18:31	33m	19:05	35m	19:40	36m	20:17	12h 34m	9h 01m					Do, 5. Okt
Fr, 6. Okt	MESZ	20:15–22:48	2h 32m	AN <sub>+</sub> bis M <sub>7</sub>	☾	22:48	15:27	05:19	37m	05:56	35m	06:32	33m	07:05	11h 23m	18:29	33m	19:03	35m	19:38	36m	20:15	12h 37m	9h 05m					Fr, 6. Okt
Sa, 7. Okt	MESZ	20:13–23:54	3h 40m	AN <sub>+</sub> bis M <sub>7</sub>		23:54	16:06	05:21	36m	05:58	35m	06:33	33m	07:07	11h 20m	18:27	33m	19:01	35m	19:36	36m	20:13	12h 41m	9h 08m					Sa, 7. Okt
So, 8. Okt	MESZ	20:11–01:03*	4h 51m	AN <sub>+</sub> bis M <sub>7</sub>		—:—	16:35	05:22	36m	05:59	35m	06:35	33m	07:08	11h 16m	18:25	33m	18:59	35m	19:34	36m	20:11	12h 44m	9h 12m					So, 8. Okt
Mo, 9. Okt	MESZ	20:09–02:13*	6h 03m	AN <sub>+</sub> bis M <sub>7</sub>		01:03	16:57	05:24	36m	06:01	35m	06:36	33m	07:10	11h 13m	18:23	33m	18:57	35m	19:32	36m	20:09	12h 48m	9h 16m					Mo, 9. Okt
Di, 10. Okt	MESZ	20:07–03:22*	7h 14m	AN <sub>+</sub> bis M <sub>7</sub>		02:13	17:15	05:25	36m	06:02	35m	06:38	33m	07:11	11h 09m	18:21	33m	18:55	35m	19:30	36m	20:07	12h 51m	9h 19m					Di, 10. Okt
Mi, 11. Okt	MESZ	20:05–04:30*	8h 24m	AN <sub>+</sub> bis M <sub>7</sub>		03:22	17:29	05:27	36m	06:03	35m	06:39	33m	07:13	11h 06m	18:19	33m	18:53	35m	19:28	36m	20:05	12h 55m	9h 23m					Mi, 11. Okt
Do, 12. Okt	MESZ	20:03–05:30*	9h 26m	AN <sub>+</sub> bis AN <sub>-</sub>		04:30	17:42	05:28	36m	06:05	35m	06:41	33m	07:14	11h 02m	18:17	33m	18:51	35m	19:26	36m	20:03	12h 58m	9h 26m					Do, 12. Okt
Fr, 13. Okt	MESZ	20:01–05:31*	9h 30m	AN <sub>+</sub> bis AN <sub>-</sub>		05:38	17:55	05:30	36m	06:06	35m	06:42	33m	07:16	10h 59m	18:15	33m	18:49	35m	19:24	36m	20:01	13h 02m	9h 30m					Fr, 13. Okt
Sa, 14. Okt	MESZ	19:59–05:33*	9h 33m	AN <sub>+</sub> bis AN <sub>-</sub>	●	06:46	18:08	05:31	36m	06:08	35m	06:44	33m	07:17	10h 55m	18:13	33m	18:47	35m	19:23	36m	19:59	13h 05m	9h 33m					Sa, 14. Okt
So, 15. Okt	MESZ	19:57–05:34*	9h 37m	AN <sub>+</sub> bis AN <sub>-</sub>		07:57	18:23	05:33	36m	06:09	35m	06:45	33m	07:19	10h 52m	18:11	33m	18:45	35m	19:21	36m	19:57	13h 09m	9h 37m					So, 15. Okt
Mo, 16. Okt	MESZ	19:55–05:36*	9h 40m	AN <sub>+</sub> bis AN <sub>-</sub>		09:11	18:41	05:34	36m	06:11	35m	06:47	33m	07:20	10h 48m	18:09	33m	18:43	35m	19:19	36m	19:55	13h 12m	9h 40m					Mo, 16. Okt
Di, 17. Okt	MESZ	19:53–05:37*	9h 43m	AN <sub>+</sub> bis AN <sub>-</sub>		10:27	19:04	05:36	36m	06:12	35m	06:48	33m	07:22	10h 45m	18:07	33m	18:41	35m	19:17	36m	19:53	13h 16m	9h 43m					Di, 17. Okt
Mi, 18. Okt	MESZ	19:51–05:39*	9h 47m	AN <sub>+</sub> bis AN <sub>-</sub>		11:44	19:35	05:37	36m	06:14	35m	06:49	33m	07:23	10h 41m	18:05	33m	18:39	35m	19:15	36m	19:51	13h 19m	9h 47m					Mi, 18. Okt
Do, 19. Okt	MESZ	20:18–05:40*	9h 21m	M <sub>\</sub> bis AN <sub>-</sub>																									

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
2023	Zeit- zone	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung					Sonne			Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond			2023		
		$\Delta t$			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.	$\Delta t$	$\Delta t$		$\Delta t$		
Sa, 28. Okt	MESZ	—:—:—:—	—	Mond stört	○	17:32	06:57	05:52	36m	06:28	36m	07:04	34m	07:39	10h 08m	17:47	34m	18:22	36m	18:58	36m	19:34	13h 53m	10h 18m				Sa, 28. Okt
So, 29. Okt		—:—:—:—	—	Mond stört		16:53	07:21	04:53	36m	05:29	36m	06:06	34m	06:41	10h 04m	16:45	34m	17:20	36m	17:56	36m	18:33	13h 56m	10h 21m				So, 29. Okt
Mo, 30. Okt		—:—:—:—	—	Mond stört		17:19	08:45	04:54	36m	05:31	36m	06:07	34m	06:42	10h 01m	16:44	34m	17:19	36m	17:55	36m	18:31	13h 59m	10h 24m				Mo, 30. Okt
Di, 31. Okt		—:—:—:—	—	Mond stört		17:53	10:06	04:56	36m	05:32	36m	06:09	34m	06:44	9h 58m	16:42	34m	17:17	36m	17:53	36m	18:30	14h 03m	10h 27m				Di, 31. Okt
Mi, 1. Nov		18:28–18:37	9m	AN <sub>+</sub> bis M <sub>7</sub>		18:37	11:18	04:57	36m	05:34	36m	06:10	35m	06:45	9h 55m	16:40	35m	17:15	36m	17:52	36m	18:28	14h 06m	10h 30m				Mi, 1. Nov
Do, 2. Nov		18:27–19:33	1h 06m	AN <sub>+</sub> bis M <sub>7</sub>		19:33	12:18	04:59	36m	05:35	36m	06:12	35m	06:47	9h 51m	16:39	35m	17:14	36m	17:50	36m	18:27	14h 09m	10h 32m				Do, 2. Nov
Fr, 3. Nov		18:26–20:38	2h 12m	AN <sub>+</sub> bis M <sub>7</sub>		20:38	13:03	05:00	36m	05:37	36m	06:13	35m	06:48	9h 48m	16:37	35m	17:12	36m	17:49	36m	18:26	14h 12m	10h 35m				Fr, 3. Nov
Sa, 4. Nov		18:24–21:47	3h 23m	AN <sub>+</sub> bis M <sub>7</sub>		21:47	13:36	05:01	36m	05:38	36m	06:15	35m	06:50	9h 45m	16:36	35m	17:11	36m	17:48	36m	18:24	14h 15m	10h 38m				Sa, 4. Nov
So, 5. Nov		18:23–22:58	4h 34m	AN <sub>+</sub> bis M <sub>7</sub>	☉	22:58	14:01	05:03	36m	05:39	36m	06:16	35m	06:52	9h 42m	16:34	35m	17:09	36m	17:46	36m	18:23	14h 19m	10h 41m				So, 5. Nov
Mo, 6. Nov		18:22–00:07*	5h 45m	AN <sub>+</sub> bis M <sub>7</sub>		—:—	14:20	05:04	36m	05:41	36m	06:18	35m	06:53	9h 39m	16:33	35m	17:08	36m	17:45	36m	18:22	14h 22m	10h 43m				Mo, 6. Nov
Di, 7. Nov		18:20–01:15*	6h 55m	AN <sub>+</sub> bis M <sub>7</sub>		00:07	14:36	05:05	36m	05:42	36m	06:19	35m	06:55	9h 36m	16:31	35m	17:07	36m	17:44	36m	18:20	14h 25m	10h 46m				Di, 7. Nov
Mi, 8. Nov		18:19–02:23*	8h 03m	AN <sub>+</sub> bis M <sub>7</sub>		01:15	14:49	05:07	36m	05:44	36m	06:21	35m	06:56	9h 33m	16:30	35m	17:05	36m	17:42	36m	18:19	14h 28m	10h 49m				Mi, 8. Nov
Do, 9. Nov		18:18–03:31*	9h 13m	AN <sub>+</sub> bis M <sub>7</sub>		02:23	15:02	05:08	36m	05:45	37m	06:22	35m	06:58	9h 30m	16:28	35m	17:04	36m	17:41	36m	18:18	14h 31m	10h 51m				Do, 9. Nov
Fr, 10. Nov		18:17–04:41*	10h 24m	AN <sub>+</sub> bis M <sub>7</sub>		03:31	15:15	05:09	36m	05:46	37m	06:23	36m	06:59	9h 27m	16:27	35m	17:03	37m	17:40	36m	18:17	14h 34m	10h 54m				Fr, 10. Nov
Sa, 11. Nov		18:16–05:12*	10h 56m	AN <sub>+</sub> bis AN <sub>-</sub>		04:41	15:29	05:11	36m	05:48	37m	06:25	36m	07:01	9h 24m	16:25	36m	17:02	37m	17:39	36m	18:16	14h 37m	10h 56m				Sa, 11. Nov
So, 12. Nov		18:14–05:13*	10h 58m	AN <sub>+</sub> bis AN <sub>-</sub>		05:54	15:46	05:12	36m	05:49	37m	06:26	36m	07:03	9h 21m	16:24	36m	17:00	37m	17:38	36m	18:14	14h 40m	10h 58m				So, 12. Nov
Mo, 13. Nov		18:13–05:15*	11h 01m	AN <sub>+</sub> bis AN <sub>-</sub>	●	07:11	16:07	05:13	37m	05:51	37m	06:28	36m	07:04	9h 18m	16:23	36m	16:59	37m	17:36	36m	18:13	14h 42m	11h 01m				Mo, 13. Nov
Di, 14. Nov		18:12–05:16*	11h 03m	AN <sub>+</sub> bis AN <sub>-</sub>		08:29	16:36	05:15	37m	05:52	37m	06:29	36m	07:06	9h 15m	16:22	36m	16:58	37m	17:35	37m	18:12	14h 45m	11h 03m				Di, 14. Nov
Mi, 15. Nov		18:11–05:17*	11h 05m	AN <sub>+</sub> bis AN <sub>-</sub>		09:47	17:16	05:16	37m	05:53	37m	06:31	36m	07:07	9h 13m	16:20	36m	16:57	37m	17:34	37m	18:11	14h 48m	11h 05m				Mi, 15. Nov
Do, 16. Nov		18:11–05:19*	11h 08m	AN <sub>+</sub> bis AN <sub>-</sub>		10:56	18:10	05:17	37m	05:55	37m	06:32	36m	07:09	9h 10m	16:19	36m	16:56	37m	17:33	37m	18:11	14h 51m	11h 08m				Do, 16. Nov
Fr, 17. Nov		19:20–05:20*	10h 00m	M <sub>\</sub> bis AN <sub>-</sub>		11:53	19:20	05:19	37m	05:56	37m	06:34	36m	07:10	9h 07m	16:18	36m	16:55	37m	17:32	37m	18:10	14h 53m	11h 10m				Fr, 17. Nov
Sa, 18. Nov		20:40–05:21*	8h 41m	M <sub>\</sub> bis AN <sub>-</sub>		12:35	20:40	05:20	37m	05:57	37m	06:35	36m	07:12	9h 05m	16:17	36m	16:54	37m	17:32	37m	18:09	14h 56m	11h 12m				Sa, 18. Nov
So, 19. Nov		22:05–05:23*	7h 17m	M <sub>\</sub> bis AN <sub>-</sub>		13:06	22:05	05:21	37m	05:59	37m	06:36	37m	07:13	9h 02m	16:16	37m	16:53	37m	17:31	37m	18:08	14h 59m	11h 14m				So, 19. Nov
Mo, 20. Nov		23:29–05:24*	5h 54m	M <sub>\</sub> bis AN <sub>-</sub>	☾	13:29	23:29	05:23	37m	06:00	37m	06:38	37m	07:15	8h 59m	16:15	37m	16:52	37m	17:30	37m	18:07	15h 01m	11h 16m				Mo, 20. Nov
Di, 21. Nov		00:52*–05:25*	4h 33m	M <sub>\</sub> bis AN <sub>-</sub>		13:48	—:—	05:24	37m	06:01	37m	06:39	37m	07:16	8h 57m	16:14	37m	16:51	37m	17:29	37m	18:06	15h 04m	11h 18m				Di, 21. Nov
Mi, 22. Nov		02:13*–05:26*	3h 13m	M <sub>\</sub> bis AN <sub>-</sub>		14:04	00:52	05:25	37m	06:02	38m	06:40	37m	07:18	8h 55m	16:13	37m	16:50	38m	17:28	37m	18:06	15h 06m	11h 20m				Mi, 22. Nov
Do, 23. Nov		03:34*–05:27*	1h 53m	M <sub>\</sub> bis AN <sub>-</sub>		14:20	02:13	05:26	37m	06:04	38m	06:42	37m	07:19	8h 52m	16:12	37m	16:49	38m	17:28	37m	18:05	15h 08m	11h 22m				Do, 23. Nov
Fr, 24. Nov		04:56*–05:29*	32m	M <sub>\</sub> bis AN <sub>-</sub>		14:36	03:34	05:27	37m	06:05	38m	06:43	37m	07:21	8h 50m	16:11	37m	16:49	38m	17:27	37m	18:04	15h 11m	11h 24m				Fr, 24. Nov
Sa, 25. Nov		—:—:—:—	—	Mond stört		14:55	04:56	05:29	37m	06:06	38m	06:44	37m	07:22	8h 48m	16:10	37m	16:48	38m	17:26	37m	18:04	15h 13m	11h 25m				Sa, 25. Nov
So, 26. Nov		—:~:~:~:~	—	Mond stört		15:18	06:19	05:30	37m	06:07	38m	06:46	37m	07:24	8h 45m	16:09	37m	16:47	38m	17:26	37m	18:03	15h 15m	11h 27m				So, 26. Nov
Mo, 27. Nov		—:~:~:~:~	—	Mond stört	○	15:48	07:40	05:31	37m	06:09	38m	06:47	37m	07:25	8h 43m	16:09	37m	16:47	38m	17:25	37m	18:03	15h 17m	11h 29m				Mo, 27. Nov
Di, 28. Nov		—:~:~:~:~	—	Mond stört		16:28	08:57	05:32	37m	06:10	38m	06:48	38m	07:26	8h 41m	16:08	38m	16:46	38m	17:25	37m	18:02	15h 19m	11h 30m				Di, 28. Nov
Mi, 29. Nov		—:~:~:~:~	—	Mond stört		17:19	10:03	05:33	37m	06:11	38m	06:50	38m	07:28	8h 39m	16:07	38m	16:46	38m	17:24	37m	18:02	15h 21m	11h 32m				Mi, 29. Nov
Do, 30. Nov		18:02–18:21	19m	AN <sub>+</sub> bis M <sub>7</sub>		18:21	10:55	05:34	37m	06:12	38m	06:51	38m	07:29	8h 37m	16:07	38m	16:45	38m	17:24	37m	18:02	15h 23m	11h 33m				Do, 30. Nov
Fr, 1. Dez		18:01–19:30	1h 28m	AN <sub>+</sub> bis M <sub>7</sub>		19:30	11:34	05:35	37m	06:13	38m	06:52	38m	07:30	8h 35m	16:06	38m	16:45	38m	17:23	37m	18:01	15h 25m	11h 35m				Fr, 1. Dez
Sa, 2. Dez		18:01–20:41	2h 40m	AN <sub>+</sub> bis M <sub>7</sub>		20:41	12:03	05:36	37m	06:14	38m	06:53	38m	07:32	8h 34m	16:06	38m	16:44	38m	17:23	37m	18:01	15h 27m	11h 36m				Sa, 2. Dez
So, 3. Dez		18:01–21:51	3h 50m	AN <sub>+</sub> bis M <sub>7</sub>		21:51	12:24	05:37	37m	06:15	38m	06:54	38m	07:33	8h 32m	16:05	38m	16:44	38m	17:23	37m	18:01	15h 28m	11h 37m				So, 3. Dez
Mo, 4. Dez		18:00–23:00	4h 59m	AN <sub>+</sub> bis M <sub>7</sub>		23:00	12:41	05:38	38m	06:16	38m	06:55	38m	07:34	8h 30m	16:05	38m	16:44	38m	17:22	38m	18:00	15h 30m	11h 39m				Mo, 4. Dez
Di, 5. Dez		18:00–00:07*	6h 06m	AN <sub>+</sub> bis M <sub>7</sub>	☾	—:—	12:55	05:39	38m	06:18	38m	06:57	38m	07:35	8h 29m	16:05	38m	16:43	38m	17:22	38m	18:00	15h 31m	11h 40m				Di, 5. Dez
Mi, 6. Dez		18:00–01:14*	7h 14m	AN <sub>+</sub> bis M <sub>7</sub>		00:07	13:08	05:40	38m	06:19	39m	06:58	38m	07:36	8h 27m	16:04	38m	16:43	39m	17:22	38m	18:00	15h 33m	11h 41m				Mi, 6. Dez
Do, 7. Dez		18:00–02:23*	8h 22m	AN <sub>+</sub> bis M <sub>7</sub>		01:14	13:21	05:41	38m	06:20	39m	06:59	38m	07:37	8h 26m	16:04	38m	16:43	39m	17:22	38m	18:00	15h 34m	11h 42m				Do, 7. Dez
Fr, 8. Dez		18:00–03:33*	9h 33m	AN <sub>+</sub> bis M <sub>7</sub>		02:23	13:34	05:42	38m	06:21	39m	07:00	38m	07:39	8h 25m	16:04	38m	16:43	39m	17:22	38m	18:00	15h 35m	11h 43m				Fr, 8. Dez
Sa, 9. Dez		18:00–04:48*	10h 48m	AN <sub>+</sub> bis M <sub>7</sub>		03:33	13:50	05:43	38m	06:21	39m	07:0																



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	
2023/24	Zeit- zone	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung					Sonne				Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond				2023/24	
		$\Delta t$			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.	$\Delta t$	$\Delta t$		$\Delta t$			
So, 17. Dez		21:17–05:50*	8h 33m	M <sub>\</sub> bis AN <sub>\</sub>		11:34	21:17	05:50	38m	06:28	39m	07:07	39m	07:47	8h 17m	16:04	39m	16:44	39m	17:23	38m	18:01	15h 43m	11h 48m					So, 17. Dez
Mo, 18. Dez		22:41–05:51*	7h 10m	M <sub>\</sub> bis AN <sub>\</sub>		11:54	22:41	05:50	38m	06:29	39m	07:08	39m	07:47	8h 17m	16:05	39m	16:44	39m	17:23	38m	18:02	15h 43m	11h 49m					Mo, 18. Dez
Di, 19. Dez		00:02*–05:51*	5h 49m	M <sub>\</sub> bis AN <sub>\</sub>	☾	12:11	—:—	05:51	38m	06:29	39m	07:09	39m	07:48	8h 16m	16:05	39m	16:44	39m	17:24	38m	18:02	15h 43m	11h 49m					Di, 19. Dez
Mi, 20. Dez		01:21*–05:52*	4h 30m	M <sub>\</sub> bis AN <sub>\</sub>		12:26	00:02	05:51	38m	06:30	39m	07:09	39m	07:49	8h 16m	16:05	39m	16:45	39m	17:24	38m	18:03	15h 43m	11h 49m					Mi, 20. Dez
Do, 21. Dez		02:41*–05:52*	3h 11m	M <sub>\</sub> bis AN <sub>\</sub>		12:42	01:21	05:52	38m	06:30	39m	07:10	39m	07:49	8h 16m	16:06	39m	16:45	39m	17:25	38m	18:03	15h 44m	11h 49m					Do, 21. Dez
Fr, 22. Dez		04:01*–05:53*	1h 51m	M <sub>\</sub> bis AN <sub>\</sub>		12:59	02:41	05:52	38m	06:31	39m	07:10	39m	07:50	8h 16m	16:06	39m	16:46	39m	17:25	38m	18:04	15h 44m	11h 49m					Fr, 22. Dez
Sa, 23. Dez		05:22*–05:53*	31m	M <sub>\</sub> bis AN <sub>\</sub>		13:20	04:01	05:53	38m	06:31	39m	07:11	39m	07:50	8h 16m	16:07	39m	16:46	39m	17:26	38m	18:04	15h 43m	11h 49m					Sa, 23. Dez
So, 24. Dez		—:—:—:—:—	—	Mond stört		13:47	05:22	05:53	38m	06:32	39m	07:11	39m	07:51	8h 16m	16:07	39m	16:47	39m	17:26	38m	18:05	15h 43m	11h 49m					So, 24. Dez
Mo, 25. Dez		—:—:—:—:—	—	Mond stört		14:22	06:39	05:54	38m	06:32	39m	07:12	39m	07:51	8h 16m	16:08	39m	16:47	39m	17:27	38m	18:05	15h 43m	11h 48m					Mo, 25. Dez
Di, 26. Dez		—:—:—:—:—	—	Mond stört		15:08	07:49	05:54	38m	06:32	39m	07:12	39m	07:51	8h 17m	16:09	39m	16:48	39m	17:28	38m	18:06	15h 42m	11h 48m					Di, 26. Dez
Mi, 27. Dez		—:—:—:—:—	—	Mond stört	☉	16:06	08:46	05:54	38m	06:33	39m	07:12	39m	07:52	8h 17m	16:09	39m	16:49	39m	17:28	38m	18:07	15h 42m	11h 48m					Mi, 27. Dez
Do, 28. Dez		—:~::~~::~	—	Mond stört		17:13	09:30	05:55	38m	06:33	39m	07:12	39m	07:52	8h 18m	16:10	39m	16:49	39m	17:29	38m	18:07	15h 41m	11h 47m					Do, 28. Dez
Fr, 29. Dez		18:08–18:24	16m	AN <sub>+</sub> bis M <sub>+</sub>		18:24	10:03	05:55	38m	06:33	39m	07:13	39m	07:52	8h 18m	16:11	39m	16:50	39m	17:30	38m	18:08	15h 41m	11h 47m					Fr, 29. Dez
Sa, 30. Dez		18:09–19:35	1h 26m	AN <sub>+</sub> bis M <sub>+</sub>		19:35	10:27	05:55	38m	06:34	39m	07:13	39m	07:52	8h 19m	16:12	39m	16:51	39m	17:30	38m	18:09	15h 40m	11h 46m					Sa, 30. Dez
So, 31. Dez		18:10–20:45	2h 35m	AN <sub>+</sub> bis M <sub>+</sub>		20:45	10:45	05:55	38m	06:34	39m	07:13	39m	07:52	8h 20m	16:13	39m	16:52	39m	17:31	38m	18:10	15h 39m	11h 45m					So, 31. Dez
Mo, 1. Jan		18:10–21:53	3h 42m	AN <sub>+</sub> bis M <sub>+</sub>		21:53	11:00	05:56	38m	06:34	39m	07:13	39m	07:52	8h 21m	16:14	39m	16:53	39m	17:32	38m	18:10	15h 38m	11h 45m					Mo, 1. Jan
Di, 2. Jan		18:11–22:59	4h 47m	AN <sub>+</sub> bis M <sub>+</sub>		22:59	11:14	05:56	38m	06:34	39m	07:13	39m	07:52	8h 22m	16:15	39m	16:54	39m	17:33	38m	18:11	15h 37m	11h 44m					Di, 2. Jan
Mi, 3. Jan		18:12–00:06*	5h 53m	AN <sub>+</sub> bis M <sub>+</sub>		—:—	11:26	05:56	38m	06:34	39m	07:13	39m	07:52	8h 23m	16:16	39m	16:55	39m	17:34	38m	18:12	15h 36m	11h 43m					Mi, 3. Jan
Do, 4. Jan		18:13–01:14*	7h 01m	AN <sub>+</sub> bis M <sub>+</sub>	☾	00:06	11:39	05:56	38m	06:34	39m	07:13	38m	07:52	8h 24m	16:17	38m	16:56	39m	17:35	38m	18:13	15h 35m	11h 42m					Do, 4. Jan
Fr, 5. Jan		18:14–02:26*	8h 11m	AN <sub>+</sub> bis M <sub>+</sub>		01:14	11:53	05:56	38m	06:34	39m	07:13	38m	07:52	8h 26m	16:18	38m	16:57	39m	17:36	38m	18:14	15h 33m	11h 41m					Fr, 5. Jan
Sa, 6. Jan		18:15–03:41*	9h 26m	AN <sub>+</sub> bis M <sub>+</sub>		02:26	12:10	05:56	38m	06:34	39m	07:13	38m	07:52	8h 27m	16:19	38m	16:58	39m	17:37	38m	18:15	15h 32m	11h 40m					Sa, 6. Jan
So, 7. Jan		18:16–05:00*	10h 43m	AN <sub>+</sub> bis M <sub>+</sub>		03:41	12:32	05:56	38m	06:34	39m	07:13	38m	07:51	8h 28m	16:20	38m	16:59	39m	17:38	38m	18:16	15h 30m	11h 39m					So, 7. Jan
Mo, 8. Jan		18:17–05:55*	11h 38m	AN <sub>+</sub> bis AN <sub>\</sub>		05:00	13:02	05:55	38m	06:33	38m	07:12	38m	07:51	8h 30m	16:21	38m	17:00	38m	17:39	38m	18:17	15h 29m	11h 38m					Mo, 8. Jan
Di, 9. Jan		18:18–05:55*	11h 36m	AN <sub>+</sub> bis AN <sub>\</sub>		06:17	13:44	05:55	37m	06:33	38m	07:12	38m	07:51	8h 31m	16:23	38m	17:01	38m	17:40	37m	18:18	15h 27m	11h 36m					Di, 9. Jan
Mi, 10. Jan		18:19–05:55*	11h 35m	AN <sub>+</sub> bis AN <sub>\</sub>		07:27	14:43	05:55	37m	06:33	38m	07:12	38m	07:50	8h 33m	16:24	38m	17:02	38m	17:41	37m	18:19	15h 25m	11h 35m					Mi, 10. Jan
Do, 11. Jan		18:20–05:54*	11h 34m	AN <sub>+</sub> bis AN <sub>\</sub>	☉	08:23	15:59	05:55	37m	06:33	38m	07:11	38m	07:50	8h 35m	16:25	38m	17:04	38m	17:42	37m	18:20	15h 24m	11h 34m					Do, 11. Jan
Fr, 12. Jan		18:21–05:54*	11h 32m	AN <sub>+</sub> bis AN <sub>\</sub>		09:05	17:26	05:54	37m	06:32	38m	07:11	38m	07:49	8h 37m	16:26	38m	17:05	38m	17:43	37m	18:21	15h 22m	11h 32m					Fr, 12. Jan
Sa, 13. Jan		18:56–05:54*	10h 58m	M <sub>\</sub> bis AN <sub>\</sub>		09:35	18:56	05:54	37m	06:32	38m	07:10	38m	07:49	8h 39m	16:28	38m	17:06	38m	17:45	37m	18:22	15h 20m	11h 31m					Sa, 13. Jan
So, 14. Jan		20:23–05:53*	9h 29m	M <sub>\</sub> bis AN <sub>\</sub>		09:58	20:23	05:54	37m	06:31	38m	07:10	38m	07:48	8h 41m	16:29	38m	17:07	38m	17:46	37m	18:24	15h 18m	11h 29m					So, 14. Jan
Mo, 15. Jan		21:48–05:53*	8h 04m	M <sub>\</sub> bis AN <sub>\</sub>		10:16	21:48	05:53	37m	06:31	38m	07:09	37m	07:47	8h 43m	16:31	37m	17:09	38m	17:47	37m	18:25	15h 16m	11h 28m					Mo, 15. Jan
Di, 16. Jan		23:10–05:52*	6h 42m	M <sub>\</sub> bis AN <sub>\</sub>		10:33	23:10	05:53	37m	06:30	38m	07:09	37m	07:47	8h 45m	16:32	37m	17:10	38m	17:48	37m	18:26	15h 13m	11h 26m					Di, 16. Jan
Mi, 17. Jan		00:31*–05:52*	5h 21m	M <sub>\</sub> bis AN <sub>\</sub>		10:48	—:—	05:52	37m	06:30	38m	07:08	37m	07:46	8h 47m	16:33	37m	17:11	38m	17:49	37m	18:27	15h 11m	11h 24m					Mi, 17. Jan
Do, 18. Jan		01:51*–05:51*	4h 00m	M <sub>\</sub> bis AN <sub>\</sub>	☾	11:05	00:31	05:52	37m	06:29	38m	07:08	37m	07:45	8h 49m	16:35	37m	17:13	38m	17:51	37m	18:28	15h 09m	11h 22m					Do, 18. Jan
Fr, 19. Jan		03:11*–05:51*	2h 39m	M <sub>\</sub> bis AN <sub>\</sub>		11:25	01:51	05:51	37m	06:29	38m	07:07	37m	07:44	8h 52m	16:36	37m	17:14	38m	17:52	37m	18:30	15h 07m	11h 20m					Fr, 19. Jan
Sa, 20. Jan		04:28*–05:50*	1h 21m	M <sub>\</sub> bis AN <sub>\</sub>		11:49	03:11	05:51	37m	06:28	38m	07:06	37m	07:43	8h 54m	16:38	37m	17:15	38m	17:53	37m	18:31	15h 04m	11h 19m					Sa, 20. Jan
So, 21. Jan		05:40*–05:49*	9m	M <sub>\</sub> bis AN <sub>\</sub>		12:21	04:28	05:50	37m	06:27	37m	07:05	37m	07:43	8h 56m	16:39	37m	17:17	38m	17:55	37m	18:32	15h 02m	11h 17m					So, 21. Jan
Mo, 22. Jan		—:~::~~::~	—	Mond stört		13:03	05:40	05:49	37m	06:26	37m	07:04	37m	07:42	8h 59m	16:41	37m	17:18	37m	17:56	37m	18:33	14h 59m	11h 15m					Mo, 22. Jan
Di, 23. Jan		—:~::~~::~	—	Mond stört		13:56	06:40	05:48	37m	06:26	37m	07:04	37m	07:41	9h 01m	16:42	37m	17:19	37m	17:57	37m	18:35	14h 57m	11h 12m					Di, 23. Jan
Mi, 24. Jan		—:~::~~::~	—	Mond stört		15:00	07:28	05:48	37m	06:25	37m	07:03	36m	07:40	9h 04m	16:44	36m	17:21	37m	17:59	37m	18:36	14h 54m	11h 10m					Mi, 24. Jan
Do, 25. Jan		—:~::~~::~	—	Mond stört	☉	16:10	08:04	05:47	37m	06:24	37m	07:02	36m	07:38	9h 07m	16:46	36m	17:22	37m	18:00	37m	18:37	14h 51m	11h 08m					Do, 25. Jan
Fr, 26. Jan		—:~::~~::~	—	Mond stört		17:21	08:30	05:46	37m	06:23	37m	07:01	36m	07:37	9h 09m	16:47	36m	17:24	37m	18:01	37m	18:39	14h 49m	11h 06m					Fr, 26. Jan
Sa, 27. Jan		—:~::~~::~	—	Mond stört		18:32	08:50	05:45	37m	06:22	37m	07:00	36m	07:36	9h 12m	16:49	36m	17:25	37m	18:03	37m	18:40	14h 46m	11h 04m					