

# Mond- und Dämmerungstabelle 2023

für die visuelle Deep-Sky-Beobachtung

Traunstein 47.8717° N 12.6489° 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		03:45*–06:04*	2h 18m	M <sub>\</sub> bis AN <sub>\</sub>		12:49	02:33	06:04	37m	06:41	38m	07:20	38m	07:58	8h 29m	16:27	38m	17:05	38m	17:44	37m	18:21	15h 30m	11h 42m				So, 1. Jan
Mo, 2. Jan		04:56*–06:04*	1h 07m	M <sub>\</sub> bis AN <sub>\</sub>		13:10	03:45	06:04	37m	06:41	38m	07:20	38m	07:58	8h 30m	16:28	38m	17:06	38m	17:45	37m	18:22	15h 29m	11h 41m				Mo, 2. Jan
Di, 3. Jan		—:—:—:—:—	–	Mond stört		13:36	04:56	06:04	37m	06:41	38m	07:20	38m	07:58	8h 31m	16:29	38m	17:07	38m	17:46	37m	18:23	15h 28m	11h 40m				Di, 3. Jan
Mi, 4. Jan		—:—:—:—:—	–	Mond stört		14:09	06:05	06:04	37m	06:41	38m	07:20	38m	07:58	8h 32m	16:30	38m	17:08	38m	17:46	37m	18:24	15h 27m	11h 39m				Mi, 4. Jan
Do, 5. Jan		—:—:~:~:~	–	Mond stört		14:50	07:09	06:04	37m	06:41	38m	07:19	37m	07:57	8h 33m	16:31	37m	17:09	38m	17:47	37m	18:25	15h 26m	11h 38m				Do, 5. Jan
Fr, 6. Jan		—:~:~:~:~	–	Mond stört		15:41	08:04	06:04	37m	06:41	38m	07:19	37m	07:57	8h 34m	16:32	37m	17:10	38m	17:48	37m	18:26	15h 24m	11h 37m				Fr, 6. Jan
Sa, 7. Jan		—:~:~:~:~	–	Mond stört	○	16:41	08:49	06:04	37m	06:41	38m	07:19	37m	07:57	8h 36m	16:33	37m	17:11	38m	17:49	37m	18:27	15h 23m	11h 36m				Sa, 7. Jan
So, 8. Jan		—:~:~:~:~	–	Mond stört		17:46	09:24	06:03	37m	06:41	38m	07:19	37m	07:57	8h 37m	16:35	37m	17:12	38m	17:50	37m	18:28	15h 21m	11h 35m				So, 8. Jan
Mo, 9. Jan		18:29–18:54	24m	AN <sub>+</sub> bis M <sub>7</sub>		18:54	09:51	06:03	37m	06:41	38m	07:19	37m	07:56	8h 39m	16:36	37m	17:13	38m	17:52	37m	18:29	15h 20m	11h 34m				Mo, 9. Jan
Di, 10. Jan		18:30–20:02	1h 31m	AN <sub>+</sub> bis M <sub>7</sub>		20:02	10:13	06:03	37m	06:40	38m	07:18	37m	07:56	8h 41m	16:37	37m	17:15	38m	17:53	37m	18:30	15h 18m	11h 32m				Di, 10. Jan
Mi, 11. Jan		18:31–21:09	2h 38m	AN <sub>+</sub> bis M <sub>7</sub>		21:09	10:31	06:03	37m	06:40	37m	07:18	37m	07:55	8h 42m	16:38	37m	17:16	37m	17:54	37m	18:31	15h 16m	11h 31m				Mi, 11. Jan
Do, 12. Jan		18:32–22:17	3h 44m	AN <sub>+</sub> bis M <sub>7</sub>		22:17	10:47	06:02	37m	06:40	37m	07:18	37m	07:55	8h 44m	16:40	37m	17:17	37m	17:55	37m	18:32	15h 14m	11h 30m				Do, 12. Jan
Fr, 13. Jan		18:33–23:25	4h 51m	AN <sub>+</sub> bis M <sub>7</sub>		23:25	11:02	06:02	37m	06:39	37m	07:17	37m	07:54	8h 46m	16:41	37m	17:18	37m	17:56	37m	18:33	15h 13m	11h 28m				Fr, 13. Jan
Sa, 14. Jan		18:34–00:35*	6h 00m	AN <sub>+</sub> bis M <sub>7</sub>		—:—	11:17	06:02	37m	06:39	37m	07:17	37m	07:54	8h 48m	16:42	37m	17:19	37m	17:57	37m	18:34	15h 11m	11h 27m				Sa, 14. Jan
So, 15. Jan		18:35–01:49*	7h 13m	AN <sub>+</sub> bis M <sub>7</sub>	●	00:35	11:34	06:01	37m	06:38	37m	07:16	37m	07:53	8h 50m	16:44	37m	17:21	37m	17:58	37m	18:35	15h 09m	11h 25m				So, 15. Jan
Mo, 16. Jan		18:37–03:07*	8h 30m	AN <sub>+</sub> bis M <sub>7</sub>		01:49	11:53	06:01	36m	06:38	37m	07:16	37m	07:53	8h 52m	16:45	37m	17:22	37m	18:00	36m	18:37	15h 06m	11h 23m				Mo, 16. Jan
Di, 17. Jan		18:38–04:29*	9h 51m	AN <sub>+</sub> bis M <sub>7</sub>		03:07	12:18	06:00	36m	06:37	37m	07:15	36m	07:52	8h 54m	16:46	36m	17:23	37m	18:01	36m	18:38	15h 04m	11h 22m				Di, 17. Jan
Mi, 18. Jan		18:39–05:50*	11h 11m	AN <sub>+</sub> bis M <sub>7</sub>		04:29	12:51	06:00	36m	06:37	37m	07:14	36m	07:51	8h 56m	16:48	36m	17:25	37m	18:02	36m	18:39	15h 02m	11h 20m				Mi, 18. Jan
Do, 19. Jan		18:40–05:59*	11h 18m	AN <sub>+</sub> bis AN <sub>\</sub>		05:50	13:38	05:59	36m	06:36	37m	07:14	36m	07:50	8h 58m	16:49	36m	17:26	37m	18:03	36m	18:40	15h 00m	11h 18m				Do, 19. Jan
Fr, 20. Jan		18:41–05:58*	11h 16m	AN <sub>+</sub> bis AN <sub>\</sub>		07:03	14:42	05:59	36m	06:36	37m	07:13	36m	07:49	9h 01m	16:51	36m	17:27	37m	18:05	36m	18:41	14h 57m	11h 16m				Fr, 20. Jan
Sa, 21. Jan		18:43–05:57*	11h 14m	AN <sub>+</sub> bis AN <sub>\</sub>	●	08:02	16:02	05:58	36m	06:35	37m	07:12	36m	07:49	9h 03m	16:52	36m	17:29	37m	18:06	36m	18:43	14h 55m	11h 14m				Sa, 21. Jan
So, 22. Jan		18:44–05:57*	11h 12m	AN <sub>+</sub> bis AN <sub>\</sub>		08:45	17:31	05:57	36m	06:34	37m	07:11	36m	07:48	9h 05m	16:54	36m	17:30	37m	18:07	36m	18:44	14h 53m	11h 12m				So, 22. Jan
Mo, 23. Jan		19:00–05:56*	10h 55m	M <sub>\</sub> bis AN <sub>\</sub>		09:17	19:00	05:57	36m	06:33	37m	07:10	36m	07:47	9h 08m	16:55	36m	17:31	37m	18:08	36m	18:45	14h 50m	11h 10m				Mo, 23. Jan
Di, 24. Jan		20:26–05:55*	9h 28m	M <sub>\</sub> bis AN <sub>\</sub>		09:41	20:26	05:56	36m	06:32	37m	07:10	36m	07:46	9h 10m	16:57	36m	17:33	37m	18:10	36m	18:46	14h 48m	11h 08m				Di, 24. Jan
Mi, 25. Jan		21:48–05:54*	8h 06m	M <sub>\</sub> bis AN <sub>\</sub>		10:01	21:48	05:55	36m	06:32	36m	07:09	36m	07:45	9h 13m	16:58	36m	17:34	36m	18:11	36m	18:48	14h 45m	11h 06m				Mi, 25. Jan
Do, 26. Jan		23:05–05:53*	6h 48m	M <sub>\</sub> bis AN <sub>\</sub>		10:18	23:05	05:54	36m	06:31	36m	07:08	35m	07:44	9h 16m	17:00	35m	17:36	36m	18:12	36m	18:49	14h 42m	11h 04m				Do, 26. Jan
Fr, 27. Jan		00:21*–05:52*	5h 31m	M <sub>\</sub> bis AN <sub>\</sub>		10:35	—:—	05:53	36m	06:30	36m	07:07	35m	07:42	9h 18m	17:01	35m	17:37	36m	18:14	36m	18:50	14h 40m	11h 02m				Fr, 27. Jan
Sa, 28. Jan		01:35*–05:52*	4h 16m	M <sub>\</sub> bis AN <sub>\</sub>	●	10:53	00:21	05:52	36m	06:29	36m	07:06	35m	07:41	9h 21m	17:03	35m	17:38	36m	18:15	36m	18:52	14h 37m	10h 59m				Sa, 28. Jan
So, 29. Jan		02:47*–05:51*	3h 03m	M <sub>\</sub> bis AN <sub>\</sub>		11:14	01:35	05:52	36m	06:28	36m	07:05	35m	07:40	9h 24m	17:04	35m	17:40	36m	18:17	36m	18:53	14h 34m	10h 57m				So, 29. Jan
Mo, 30. Jan		03:58*–05:50*	1h 51m	M <sub>\</sub> bis AN <sub>\</sub>		11:38	02:47	05:51	36m	06:27	36m	07:03	35m	07:39	9h 27m	17:06	35m	17:41	36m	18:18	36m	18:54	14h 31m	10h 55m				Mo, 30. Jan
Di, 31. Jan		05:03*–05:48*	45m	M <sub>\</sub> bis AN <sub>\</sub>		12:09	03:58	05:50	36m	06:26	36m	07:02	35m	07:38	9h 29m	17:07	35m	17:43	36m	18:19	36m	18:56	14h 28m	10h 52m				Di, 31. Jan
Mi, 1. Feb		—:~:~:~:~	–	Mond stört		12:47	05:03	05:48	36m	06:25	36m	07:01	35m	07:36	9h 32m	17:09	35m	17:44	36m	18:21	36m	18:57	14h 25m	10h 50m				Mi, 1. Feb
Do, 2. Feb		—:~:~:~:~	–	Mond stört		13:36	06:00	05:47	36m	06:24	36m	07:00	35m	07:35	9h 35m	17:11	35m	17:46	36m	18:22	36m	18:58	14h 23m	10h 47m				Do, 2. Feb
Fr, 3. Feb		—:~:~:~:~	–	Mond stört		14:33	06:48	05:46	36m	06:22	36m	06:59	35m	07:34	9h 38m	17:12	35m	17:47	36m	18:24	36m	19:00	14h 20m	10h 45m				Fr, 3. Feb
Sa, 4. Feb		—:~:~:~:~	–	Mond stört		15:37	07:26	05:45	36m	06:21	36m	06:57	34m	07:32	9h 41m	17:14	34m	17:49	36m	18:25	36m	19:01	14h 17m	10h 42m				Sa, 4. Feb
So, 5. Feb		—:~:~:~:~	–	Mond stört	○	16:44	07:55	05:44	36m	06:20	36m	06:56	34m	07:31	9h 44m	17:15	34m	17:50	36m	18:26	36m	19:02	14h 14m	10h 40m				So, 5. Feb
Mo, 6. Feb		—:~:~:~:~	–	Mond stört		17:53	08:18	05:43	36m	06:19	36m	06:55	34m	07:29	9h 47m	17:17	34m	17:52	36m	18:28	36m	19:04	14h 11m	10h 37m				Mo, 6. Feb
Di, 7. Feb		—:~:~:~:~	–	Mond stört		19:01	08:37	05:41	35m	06:17	35m	06:53	34m	07:28	9h 50m	17:19	34m	17:53	36m	18:29	36m	19:05	14h 07m	10h 34m				Di, 7. Feb
Mi, 8. Feb		19:07–20:08	1h 01m	AN <sub>+</sub> bis M <sub>7</sub>		20:08	08:54	05:40	35m	06:16	35m	06:52	34m	07:27	9h 53m	17:20	34m	17:55	35m	18:31	35m	19:07	14h 04m	10h 32m				Mi, 8. Feb
Do, 9. Feb		19:08–21:16	2h 07m	AN <sub>+</sub> bis M <sub>7</sub>		21:16	09:09	05:39	35m	06:15	35m	06:51	34m	07:25	9h 56m	17:22	34m	17:56	35m	18:32	35m	19:08	14h 01m	10h 29m				Do, 9. Feb
Fr, 10. Feb		19:09–22:25	3h 15m	AN <sub>+</sub> bis M <sub>7</sub>		22:25	09:23	05:37	35m	06:13	35m	06:49	34m	07:23	9h 59m	17:23	34m	17:58	35m	18:34	35m	19:09	13h 58m	10h 26m				Fr, 10. Feb
Sa, 11. Feb		19:11–23:36	4h 25m	AN <sub>+</sub> bis M <sub>7</sub>		23:36	09:39	05:36	35m	06:12	35m	06:48	34m	07:22	10h 03m	17:25	34m	17:59	35m	18:35	35m	19:11	13h 55m	10h 23m				Sa, 11. Feb
So, 12. Feb		19:12–00:51*	5h 38m	AN <sub>+</sub> bis M <sub>7</sub>		—:—	09:56	05:35	35m	06:10	35m	06:46	34m	07:20	10h 06m	17:27	34m	18:01	35m	18:36								

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

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

Table with 29 columns and multiple rows detailing moon phases and dawn/dusk times. Columns include day, time zone, moon phase, moon rise/set, dawn/dusk times, and sunset/sunrise times. Rows are organized by month from May to July.



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

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

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



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