

# Mond- und Dämmerungstabelle 2024

## für die visuelle Deep-Sky-Beobachtung

St. Gallen 47.4236° N 9.3775° 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
2024	Zeitzone	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung					Sonne			Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond			2024		
		$\Delta t$			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, 1. Jan		18:35 – 22:18	3h 42m	AN <sub>+</sub> bis M <sub>J</sub>		22:18	11:21	06:16	37m	06:53	38m	07:31	37m	08:09	8h 32m	16:42	37m	17:19	38m	17:58	37m	18:35	15h 27m	11h 41m				Mo, 1. Jan
Di, 2. Jan		18:36 – 23:23	4h 47m	AN <sub>+</sub> bis M <sub>J</sub>		23:23	11:35	06:16	37m	06:53	38m	07:31	37m	08:09	8h 33m	16:43	37m	17:20	38m	17:59	37m	18:36	15h 26m	11h 40m				Di, 2. Jan
Mi, 3. Jan		18:37 – 00:29*	5h 51m	AN <sub>+</sub> bis M <sub>J</sub>		—:—	11:49	06:16	37m	06:53	38m	07:31	37m	08:09	8h 34m	16:44	37m	17:21	38m	17:59	37m	18:37	15h 25m	11h 39m				Mi, 3. Jan
Do, 4. Jan		18:37 – 01:36*	6h 58m	AN <sub>+</sub> bis M <sub>J</sub>	☾	00:29	12:03	06:16	37m	06:53	38m	07:31	37m	08:09	8h 35m	16:45	37m	17:22	38m	18:00	37m	18:37	15h 24m	11h 38m				Do, 4. Jan
Fr, 5. Jan		18:38 – 02:46*	8h 07m	AN <sub>+</sub> bis M <sub>J</sub>		01:36	12:18	06:16	37m	06:53	37m	07:31	37m	08:09	8h 36m	16:46	37m	17:23	37m	18:01	37m	18:38	15h 22m	11h 37m				Fr, 5. Jan
Sa, 6. Jan		18:39 – 04:00*	9h 20m	AN <sub>+</sub> bis M <sub>J</sub>		02:46	12:37	06:16	37m	06:53	37m	07:31	37m	08:09	8h 38m	16:47	37m	17:24	37m	18:02	37m	18:39	15h 21m	11h 36m				Sa, 6. Jan
So, 7. Jan		18:40 – 05:17*	10h 36m	AN <sub>+</sub> bis M <sub>J</sub>		04:00	13:00	06:16	37m	06:53	37m	07:31	37m	08:08	8h 39m	16:48	37m	17:25	37m	18:03	37m	18:40	15h 20m	11h 35m				So, 7. Jan
Mo, 8. Jan		18:41 – 06:16*	11h 34m	AN <sub>+</sub> bis AN <sub>-</sub>		05:17	13:31	06:16	37m	06:53	37m	07:31	37m	08:08	8h 40m	16:49	37m	17:26	37m	18:04	37m	18:41	15h 18m	11h 34m				Mo, 8. Jan
Di, 9. Jan		18:42 – 06:16*	11h 33m	AN <sub>+</sub> bis AN <sub>-</sub>		06:33	14:15	06:16	36m	06:53	37m	07:30	37m	08:08	8h 42m	16:50	37m	17:28	37m	18:05	36m	18:42	15h 17m	11h 33m				Di, 9. Jan
Mi, 10. Jan		18:43 – 06:15*	11h 31m	AN <sub>+</sub> bis AN <sub>-</sub>		07:42	15:15	06:16	36m	06:53	37m	07:30	37m	08:07	8h 44m	16:51	37m	17:29	37m	18:06	36m	18:43	15h 15m	11h 31m				Mi, 10. Jan
Do, 11. Jan		18:44 – 06:15*	11h 30m	AN <sub>+</sub> bis AN <sub>-</sub>	☾	08:39	16:30	06:15	36m	06:52	37m	07:30	37m	08:07	8h 45m	16:53	37m	17:30	37m	18:07	36m	18:44	15h 13m	11h 30m				Do, 11. Jan
Fr, 12. Jan		18:45 – 06:15*	11h 29m	AN <sub>+</sub> bis AN <sub>-</sub>		09:22	17:56	06:15	36m	06:52	37m	07:29	37m	08:07	8h 47m	16:54	37m	17:31	37m	18:09	36m	18:45	15h 12m	11h 29m				Fr, 12. Jan
Sa, 13. Jan		19:24 – 06:14*	10h 50m	M <sub>\</sub> bis AN <sub>-</sub>		09:53	19:24	06:15	36m	06:52	37m	07:29	36m	08:06	8h 49m	16:55	36m	17:32	37m	18:10	36m	18:47	15h 10m	11h 27m				Sa, 13. Jan
So, 14. Jan		20:50 – 06:14*	9h 24m	M <sub>\</sub> bis AN <sub>-</sub>		10:18	20:50	06:14	36m	06:51	37m	07:29	36m	08:05	8h 51m	16:57	36m	17:33	37m	18:11	36m	18:48	15h 08m	11h 26m				So, 14. Jan
Mo, 15. Jan		22:13 – 06:14*	8h 01m	M <sub>\</sub> bis AN <sub>-</sub>		10:37	22:13	06:14	36m	06:51	37m	07:28	36m	08:05	8h 53m	16:58	36m	17:35	37m	18:12	36m	18:49	15h 06m	11h 24m				Mo, 15. Jan
Di, 16. Jan		23:33 – 06:13*	6h 40m	M <sub>\</sub> bis AN <sub>-</sub>		10:55	23:33	06:14	36m	06:50	37m	07:28	36m	08:04	8h 55m	16:59	36m	17:36	37m	18:13	36m	18:50	15h 04m	11h 23m				Di, 16. Jan
Mi, 17. Jan		00:52* – 06:13*	5h 20m	M <sub>\</sub> bis AN <sub>-</sub>		11:12	—:—	06:13	36m	06:50	37m	07:27	36m	08:04	8h 57m	17:01	36m	17:37	37m	18:14	36m	18:51	15h 02m	11h 21m				Mi, 17. Jan
Do, 18. Jan		02:11* – 06:12*	4h 01m	M <sub>\</sub> bis AN <sub>-</sub>	☾	11:31	00:52	06:13	36m	06:49	37m	07:26	36m	08:03	8h 59m	17:02	36m	17:39	37m	18:16	36m	18:52	14h 59m	11h 19m				Do, 18. Jan
Fr, 19. Jan		03:29* – 06:11*	2h 42m	M <sub>\</sub> bis AN <sub>-</sub>		11:52	02:11	06:12	36m	06:49	37m	07:26	36m	08:02	9h 01m	17:03	36m	17:40	37m	18:17	36m	18:53	14h 57m	11h 18m				Fr, 19. Jan
Sa, 20. Jan		04:45* – 06:11*	1h 25m	M <sub>\</sub> bis AN <sub>-</sub>		12:18	03:29	06:11	36m	06:48	37m	07:25	36m	08:01	9h 03m	17:05	36m	17:41	37m	18:18	36m	18:55	14h 55m	11h 16m				Sa, 20. Jan
So, 21. Jan		05:55* – 06:10*	14m	M <sub>\</sub> bis AN <sub>-</sub>		12:51	04:45	06:11	36m	06:47	36m	07:24	36m	08:00	9h 06m	17:06	36m	17:42	36m	18:19	36m	18:56	14h 53m	11h 14m				So, 21. Jan
Mo, 22. Jan		—:—:—:—:—	–	Mond stört		13:34	05:55	06:10	36m	06:47	36m	07:23	36m	07:59	9h 08m	17:08	36m	17:44	36m	18:21	36m	18:57	14h 50m	11h 12m				Mo, 22. Jan
Di, 23. Jan		—:—:—:—:—	–	Mond stört		14:28	06:55	06:10	36m	06:46	36m	07:23	35m	07:59	9h 10m	17:09	35m	17:45	36m	18:22	36m	18:58	14h 48m	11h 10m				Di, 23. Jan
Mi, 24. Jan		—:~:~:~:~:~	–	Mond stört		15:31	07:43	06:09	36m	06:45	36m	07:22	35m	07:58	9h 13m	17:11	35m	17:47	36m	18:23	36m	19:00	14h 45m	11h 08m				Mi, 24. Jan
Do, 25. Jan		—:~:~:~:~:~	–	Mond stört	☾	16:40	08:20	06:08	36m	06:44	36m	07:21	35m	07:57	9h 15m	17:12	35m	17:48	36m	18:25	36m	19:01	14h 43m	11h 06m				Do, 25. Jan
Fr, 26. Jan		—:~:~:~:~:~	–	Mond stört		17:50	08:47	06:07	36m	06:43	36m	07:20	35m	07:55	9h 18m	17:14	35m	17:49	36m	18:26	36m	19:02	14h 40m	11h 04m				Fr, 26. Jan
Sa, 27. Jan		—:~:~:~:~:~	–	Mond stört		18:59	09:09	06:06	36m	06:42	36m	07:19	35m	07:54	9h 20m	17:15	35m	17:51	36m	18:27	36m	19:03	14h 37m	11h 01m				Sa, 27. Jan
So, 28. Jan		19:05 – 20:06	1h 01m	AN <sub>+</sub> bis M <sub>J</sub>		20:06	09:26	06:05	36m	06:42	36m	07:18	35m	07:53	9h 23m	17:17	35m	17:52	36m	18:29	36m	19:05	14h 35m	10h 59m				So, 28. Jan
Mo, 29. Jan		19:06 – 21:11	2h 05m	AN <sub>+</sub> bis M <sub>J</sub>		21:11	09:41	06:05	36m	06:41	36m	07:17	35m	07:52	9h 26m	17:18	35m	17:54	36m	18:30	36m	19:06	14h 32m	10h 57m				Mo, 29. Jan
Di, 30. Jan		19:07 – 22:16	3h 09m	AN <sub>+</sub> bis M <sub>J</sub>		22:16	09:55	06:04	35m	06:40	36m	07:16	35m	07:51	9h 28m	17:20	35m	17:55	36m	18:31	36m	19:07	14h 29m	10h 55m				Di, 30. Jan
Mi, 31. Jan		19:09 – 23:22	4h 13m	AN <sub>+</sub> bis M <sub>J</sub>		23:22	10:08	06:03	35m	06:39	36m	07:15	35m	07:50	9h 31m	17:21	35m	17:57	36m	18:33	35m	19:09	14h 27m	10h 52m				Mi, 31. Jan
Do, 1. Feb		19:10 – 00:30*	5h 19m	AN <sub>+</sub> bis M <sub>J</sub>		—:—	10:23	06:02	35m	06:37	36m	07:14	34m	07:48	9h 34m	17:23	34m	17:58	36m	18:34	35m	19:10	14h 24m	10h 50m				Do, 1. Feb
Fr, 2. Feb		19:11 – 01:41*	6h 29m	AN <sub>+</sub> bis M <sub>J</sub>		00:30	10:39	06:00	35m	06:36	36m	07:12	34m	07:47	9h 37m	17:25	34m	17:59	36m	18:35	35m	19:11	14h 21m	10h 48m				Fr, 2. Feb
Sa, 3. Feb		19:13 – 02:54*	7h 41m	AN <sub>+</sub> bis M <sub>J</sub>	☾	01:41	10:59	05:59	35m	06:35	35m	07:11	34m	07:46	9h 40m	17:26	34m	18:01	35m	18:37	35m	19:13	14h 18m	10h 45m				Sa, 3. Feb
So, 4. Feb		19:14 – 04:09*	8h 55m	AN <sub>+</sub> bis M <sub>J</sub>		02:54	11:26	05:58	35m	06:34	35m	07:10	34m	07:45	9h 43m	17:28	34m	18:02	35m	18:38	35m	19:14	14h 15m	10h 43m				So, 4. Feb
Mo, 5. Feb		19:15 – 05:21*	10h 05m	AN <sub>+</sub> bis M <sub>J</sub>		04:09	12:02	05:57	35m	06:33	35m	07:09	34m	07:43	9h 46m	17:29	34m	18:04	35m	18:40	35m	19:15	14h 12m	10h 40m				Mo, 5. Feb
Di, 6. Feb		19:17 – 05:55*	10h 37m	AN <sub>+</sub> bis AN <sub>-</sub>		05:21	12:53	05:56	35m	06:32	35m	07:07	34m	07:42	9h 49m	17:31	34m	18:05	35m	18:41	35m	19:17	14h 09m	10h 37m				Di, 6. Feb
Mi, 7. Feb		19:18 – 05:53*	10h 35m	AN <sub>+</sub> bis AN <sub>-</sub>		06:23	14:00	05:55	35m	06:30	35m	07:06	34m	07:40	9h 52m	17:32	34m	18:07	35m	18:42	35m	19:18	14h 06m	10h 35m				Mi, 7. Feb
Do, 8. Feb		19:20 – 05:52*	10h 32m	AN <sub>+</sub> bis AN <sub>-</sub>		07:13	15:21	05:53	35m	06:29	35m	07:05	34m	07:39	9h 55m	17:34	34m	18:08	35m	18:44	35m	19:20	14h 03m	10h 32m				Do, 8. Feb
Fr, 9. Feb		19:21 – 05:51*	10h 29m	AN <sub>+</sub> bis AN <sub>-</sub>	☾	07:49	16:50	05:52	35m	06:28	35m	07:03	34m	07:37	9h 58m	17:36	34m	18:10	35m	18:45	35m	19:21	14h 00m	10h 29m				Fr, 9. Feb
Sa, 10. Feb		19:22 – 05:49*	10h 27m	AN <sub>+</sub> bis AN <sub>-</sub>		08:17	18:19	05:51	35m	06:26	35m	07:02	34m	07:36	10h 01m	17:37	34m	18:11	35m	18:47	35m	19:22	13h 57m	10h 27m				Sa, 10. Feb
So, 11. Feb		19:47 – 05:48*	10h 01m	M <sub>\</sub> bis AN <sub>-</sub>		08:40	19:47	05:49	35m	06:25	35m	07:00	33m	07:34	10h 04m	17:39	33m	18:13	35m	18:48	35m	19:24	13h 54m	10h 24m				So, 11. Feb
Mo, 12. Feb		21:12 –																										

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
2024	Zeit- zone	Astr. dunkel und kein Mond $\Delta t$	Mond Ph. $\uparrow$ $\downarrow$	Beginn der Morgendämmerung Astr. $\Delta t$ Naut. $\Delta t$ Bürg. $\Delta t$	Sonne $\uparrow$ $\Delta t$ $\downarrow$	Ende der Abenddämmerung $\Delta t$ Bürg. $\Delta t$ Naut. $\Delta t$ Astr.	Nacht $\Delta t$	Astr. N.	Naut. dunkel und kein Mond $\Delta t$	2024																		
Di, 20. Feb		—:—:—:—	—	Mond stört	13:22 05:43 05:36 35m 06:11 34m 06:46 33m 07:20 10h 33m 17:53 33m 18:26 35m 19:01 35m 19:37 13h 25m 9h 57m					Di, 20. Feb																		
Mi, 21. Feb		—:—:—:—	—	Mond stört	14:29 06:22 05:34 35m 06:10 34m 06:45 33m 07:18 10h 36m 17:54 33m 18:27 35m 19:02 35m 19:38 13h 21m 9h 54m					Mi, 21. Feb																		
Do, 22. Feb		—:—:~:~	—	Mond stört	15:39 06:52 05:33 35m 06:08 34m 06:43 33m 07:16 10h 39m 17:56 33m 18:29 34m 19:04 35m 19:39 13h 18m 9h 51m					Do, 22. Feb																		
Fr, 23. Feb		—:~:~:~	—	Mond stört	16:48 07:15 05:31 35m 06:06 34m 06:41 33m 07:14 10h 43m 17:57 33m 18:30 34m 19:05 35m 19:41 13h 15m 9h 48m					Fr, 23. Feb																		
Sa, 24. Feb		—:~:~:~	—	Mond stört	17:56 07:33 05:29 35m 06:05 34m 06:39 32m 07:12 10h 46m 17:59 33m 18:32 34m 19:07 35m 19:42 13h 11m 9h 45m					Sa, 24. Feb																		
So, 25. Feb		—:~:~:~	—	Mond stört	19:02 07:48 05:27 35m 06:03 34m 06:38 32m 07:11 10h 49m 18:00 32m 18:33 34m 19:08 35m 19:44 13h 08m 9h 41m					So, 25. Feb																		
Mo, 26. Feb		19:45–20:07	21m	AN <sub>+</sub> bis M <sub>J</sub>	20:07 08:02 05:26 35m 06:01 34m 06:36 32m 07:09 10h 53m 18:02 32m 18:35 34m 19:10 35m 19:45 13h 05m 9h 38m					Mo, 26. Feb																		
Di, 27. Feb		19:47–21:12	1h 25m	AN <sub>+</sub> bis M <sub>J</sub>	21:12 08:15 05:24 35m 05:59 34m 06:34 32m 07:07 10h 56m 18:03 32m 18:36 34m 19:11 35m 19:47 13h 01m 9h 35m					Di, 27. Feb																		
Mi, 28. Feb		19:48–22:19	2h 30m	AN <sub>+</sub> bis M <sub>J</sub>	22:19 08:29 05:22 35m 05:58 34m 06:32 32m 07:05 10h 59m 18:05 32m 18:38 34m 19:13 35m 19:48 12h 58m 9h 31m					Mi, 28. Feb																		
Do, 29. Feb		19:50–23:28	3h 38m	AN <sub>+</sub> bis M <sub>J</sub>	23:28 08:44 05:20 35m 05:56 34m 06:31 32m 07:03 11h 03m 18:06 32m 18:39 34m 19:14 35m 19:50 12h 55m 9h 28m					Do, 29. Feb																		
Fr, 1. Mrz		19:51–00:40*	4h 48m	AN <sub>+</sub> bis M <sub>J</sub>	—:~ 09:03 05:18 35m 05:54 34m 06:29 32m 07:01 11h 06m 18:08 32m 18:41 34m 19:15 35m 19:51 12h 51m 9h 25m					Fr, 1. Mrz																		
Sa, 2. Mrz		19:53–01:53*	6h 00m	AN <sub>+</sub> bis M <sub>J</sub>	00:40 09:26 05:16 35m 05:52 34m 06:27 32m 06:59 11h 09m 18:09 32m 18:42 34m 19:17 35m 19:53 12h 48m 9h 21m					Sa, 2. Mrz																		
So, 3. Mrz		19:54–03:04*	7h 10m	AN <sub>+</sub> bis M <sub>J</sub>	01:53 09:57 05:14 35m 05:50 34m 06:25 32m 06:58 11h 13m 18:11 32m 18:43 34m 19:18 35m 19:54 12h 44m 9h 18m					So, 3. Mrz																		
Mo, 4. Mrz		19:56–04:09*	8h 13m	AN <sub>+</sub> bis M <sub>J</sub>	03:04 10:39 05:13 35m 05:48 34m 06:23 32m 06:56 11h 16m 18:12 32m 18:45 34m 19:20 35m 19:56 12h 41m 9h 14m					Mo, 4. Mrz																		
Di, 5. Mrz		19:57–05:03*	9h 05m	AN <sub>+</sub> bis M <sub>J</sub>	04:09 11:37 05:11 35m 05:46 34m 06:21 32m 06:54 11h 20m 18:14 32m 18:46 34m 19:21 35m 19:57 12h 38m 9h 11m					Di, 5. Mrz																		
Mi, 6. Mrz		19:59–05:07*	9h 07m	AN <sub>+</sub> bis AN <sub>-</sub>	05:03 12:50 05:09 35m 05:44 34m 06:19 32m 06:52 11h 23m 18:15 32m 18:48 34m 19:23 35m 19:59 12h 34m 9h 07m					Mi, 6. Mrz																		
Do, 7. Mrz		20:00–05:05*	9h 04m	AN <sub>+</sub> bis AN <sub>-</sub>	05:44 14:14 05:07 35m 05:43 34m 06:17 32m 06:50 11h 26m 18:17 32m 18:49 34m 19:24 36m 20:00 12h 31m 9h 04m					Do, 7. Mrz																		
Fr, 8. Mrz		20:02–05:03*	9h 00m	AN <sub>+</sub> bis AN <sub>-</sub>	06:15 15:42 05:05 35m 05:41 34m 06:15 32m 06:48 11h 30m 18:18 32m 18:51 34m 19:26 36m 20:02 12h 27m 9h 00m					Fr, 8. Mrz																		
Sa, 9. Mrz		20:03–05:00*	8h 57m	AN <sub>+</sub> bis AN <sub>-</sub>	06:40 17:11 05:03 36m 05:39 34m 06:13 32m 06:46 11h 33m 18:20 32m 18:52 34m 19:27 36m 20:03 12h 24m 8h 57m					Sa, 9. Mrz																		
So, 10. Mrz		20:05–04:58*	8h 53m	AN <sub>+</sub> bis AN <sub>-</sub>	07:00 18:39 05:00 36m 05:37 34m 06:11 32m 06:44 11h 37m 18:21 32m 18:54 34m 19:29 36m 20:05 12h 20m 8h 53m					So, 10. Mrz																		
Mo, 11. Mrz		20:06–04:56*	8h 49m	AN <sub>+</sub> bis AN <sub>-</sub>	07:18 20:05 04:58 36m 05:35 34m 06:10 32m 06:42 11h 40m 18:23 32m 18:55 35m 19:30 36m 20:06 12h 17m 8h 49m					Mo, 11. Mrz																		
Di, 12. Mrz		21:30–04:54*	7h 24m	M <sub>\</sub> bis AN <sub>-</sub>	07:37 21:30 04:56 36m 05:33 34m 06:08 32m 06:40 11h 44m 18:24 32m 18:57 35m 19:32 36m 20:08 12h 13m 8h 46m					Di, 12. Mrz																		
Mi, 13. Mrz		22:55–04:52*	5h 57m	M <sub>\</sub> bis AN <sub>-</sub>	07:57 22:55 04:54 36m 05:31 34m 06:06 32m 06:38 11h 47m 18:25 32m 18:58 35m 19:33 36m 20:10 12h 10m 8h 42m					Mi, 13. Mrz																		
Do, 14. Mrz		00:18*–04:50*	4h 31m	M <sub>\</sub> bis AN <sub>-</sub>	08:20 —:~ 04:52 36m 05:29 35m 06:04 32m 06:36 11h 50m 18:27 32m 18:59 35m 19:35 36m 20:11 12h 07m 8h 38m					Do, 14. Mrz																		
Fr, 15. Mrz		01:36*–04:48*	3h 11m	M <sub>\</sub> bis AN <sub>-</sub>	08:49 00:18 04:50 36m 05:27 35m 06:02 32m 06:34 11h 54m 18:28 32m 19:01 35m 19:36 36m 20:13 12h 03m 8h 35m					Fr, 15. Mrz																		
Sa, 16. Mrz		02:45*–04:46*	2h 00m	M <sub>\</sub> bis AN <sub>-</sub>	09:27 01:36 04:48 36m 05:24 35m 06:00 32m 06:32 11h 57m 18:30 32m 19:02 35m 19:38 36m 20:14 12h 00m 8h 31m					Sa, 16. Mrz																		
So, 17. Mrz		03:41*–04:43*	1h 01m	M <sub>\</sub> bis AN <sub>-</sub>	10:15 02:45 04:46 36m 05:22 35m 05:58 32m 06:30 12h 01m 18:31 32m 19:04 35m 19:39 36m 20:16 11h 56m 8h 27m					So, 17. Mrz																		
Mo, 18. Mrz		04:24*–04:41*	16m	M <sub>\</sub> bis AN <sub>-</sub>	11:13 03:41 04:43 36m 05:20 35m 05:56 32m 06:28 12h 04m 18:33 32m 19:05 35m 19:41 37m 20:18 11h 53m 8h 23m					Mo, 18. Mrz																		
Di, 19. Mrz		—:~:~:~	—	Mond stört	12:19 04:24 04:41 37m 05:18 35m 05:53 32m 06:26 12h 08m 18:34 32m 19:07 35m 19:42 37m 20:19 11h 49m 8h 19m					Di, 19. Mrz																		
Mi, 20. Mrz		—:~:~:~	—	Mond stört	13:29 04:57 04:39 37m 05:16 35m 05:51 32m 06:24 12h 11m 18:36 32m 19:08 35m 19:44 37m 20:21 11h 46m 8h 15m					Mi, 20. Mrz																		
Do, 21. Mrz		—:~:~:~	—	Mond stört	14:38 05:21 04:37 37m 05:14 35m 05:49 32m 06:22 12h 14m 18:37 32m 19:10 35m 19:45 37m 20:23 11h 43m 8h 11m					Do, 21. Mrz																		
Fr, 22. Mrz		—:~:~:~	—	Mond stört	15:46 05:40 04:34 37m 05:12 35m 05:47 32m 06:20 12h 18m 18:38 32m 19:11 35m 19:47 37m 20:24 11h 39m 8h 07m					Fr, 22. Mrz																		
Sa, 23. Mrz		—:~:~:~	—	Mond stört	16:53 05:56 04:32 37m 05:10 35m 05:45 32m 06:18 12h 21m 18:40 32m 19:12 35m 19:48 37m 20:26 11h 36m 8h 03m					Sa, 23. Mrz																		
So, 24. Mrz		—:~:~:~	—	Mond stört	17:58 06:10 04:30 37m 05:08 35m 05:43 32m 06:16 12h 25m 18:41 32m 19:14 35m 19:50 37m 20:28 11h 32m 7h 59m					So, 24. Mrz																		
Mo, 25. Mrz		—:~:~:~	—	Mond stört	19:04 06:23 04:28 37m 05:05 35m 05:41 32m 06:14 12h 28m 18:43 32m 19:15 35m 19:51 38m 20:29 11h 29m 7h 55m					Mo, 25. Mrz																		
Di, 26. Mrz		—:~:~:~	—	Mond stört	20:10 06:37 04:25 38m 05:03 35m 05:39 32m 06:12 12h 32m 18:44 32m 19:17 35m 19:53 38m 20:31 11h 25m 7h 51m					Di, 26. Mrz																		
Mi, 27. Mrz		20:33–21:19	45m	AN <sub>+</sub> bis M <sub>J</sub>	21:19 06:51 04:23 38m 05:01 35m 05:37 32m 06:10 12h 35m 18:45 32m 19:18 36m 19:54 38m 20:33 11h 22m 7h 47m					Mi, 27. Mrz																		
Do, 28. Mrz		20:35–22:30	1h 55m	AN <sub>+</sub> bis M <sub>J</sub>	22:30 07:09 04:21 38m 04:59 36m 05:35 32m 06:08 12h 38m 18:47 32m 19:20 36m 19:56 38m 20:35 11h 19m 7h 43m					Do, 28. Mrz																		
Fr, 29. Mrz		20:36–23:42	3h 05m	AN <sub>+</sub> bis M <sub>J</sub>	23:42 07:30 04:18 38m 04:57 36m 05:33 32m 06:06 12h 42m 18:48 32m 19:21 36m 19:58 38m 20:36 11h 15m 7h 39m					Fr, 29. Mrz																		
Sa, 30. Mrz		20:38–00:54*	4h 15m	AN <sub>+</sub> bis M <sub>J</sub>	—:~ 07:58 04:16 38m 04:55 36m 05:31 32m 06:04 12h 45m 18:50 33m 19:23 36m 19:59 38m 20:38 11h 12m 7h 35m					Sa, 30. Mrz																		
So, 31. Mrz	MESZ	21:40–03:00*	5h 20m	AN <sub>+</sub> bis M <sub>J</sub>	01:54 09:35 05:14 38m 05:52 36m 06:29 32m 07:02 12h 49m 19:51 33m 20:24 36m 21:01 39m 21:40 11h 08m 7h 31m					So, 31. Mrz																		
Mo, 1. Apr	MESZ	21:42–03:56*	6h 14m	AN <sub>+</sub> bis M <sub>J</sub>	03:00 10:26 05:11 39m 05:50 36m 06:27 33m 07:00 12h 52m 19:52 33m 20:26 36m 21:02 39m 21:42 11h 05m 7h 27m					Mo, 1. Apr																		
Di, 2. Apr	MESZ	21:43–04:41*	6h 57m	AN <sub>+</sub> bis M <sub>J</sub>	03:56 11:31 05:09 39m 05:48 36m 06:25 33m 06:58 12h 56m 19:54 33m 20:27 36m 21:04 39m 21:43 11h 01m 7h 22m					Di, 2. Apr																		
Mi, 3. Apr	MESZ	21:45–05:04*	7h 18m	AN <sub>+</sub> bis AN <sub>-</sub>	04:41 12:48 05:06 39m 05:46 36m 06:23 33m 06:56 12h 59m 19:55 33m 20:29 36m 21:06 39m 21:45 10h 58m 7h 18m					Mi, 3. Apr																		
Do, 4. Apr	MESZ	21:47–05:02*	7h 14m	AN <sub>+</sub> bis AN <sub>-</sub>	05:14 14:12 05:04 39m 05:44 36m 06:21 33m 06:54 13h 02m 19:57 33m 20:30 37m 21:07 40m 21:47 10h 55m 7h 14m					Do, 4. Apr																		
Fr, 5. Apr	MESZ	21:49–04:59*	7h 10m	AN <sub>+</sub> bis AN <sub>-</sub>	05:40 15:39 05:02 40m 05:42 37m 06:19 33m 06:52 13h 06m 19:58 33m 20:32 37m 21:09 40m 21:49 10h 51m 7h 10m					Fr, 5. Apr																		
Sa, 6. Apr	MESZ	21:51–04:57*	7h 05m	AN <sub>+</sub> bis AN <sub>-</sub>	06:02 17:05 04:59 40m 05:39 37m 06:17 33m 06:50 13h 09m 19:59 33m 20:33 37m 21:10 40m 21:51 10h 48m 7h 05m					Sa, 6. Apr																		
So, 7. Apr	MESZ	21:53–04:54*	7h 01m	AN <sub>+</sub> bis AN <sub>-</sub>	06:21 18:30 04:57 40m 05:37 37m 06:14 33m 06:48 13h 12m 20:01 33m 20:35 37m 21:12 40m 21:53 10h 45m 7h 01m					So, 7. Apr																		
Mo, 8. Apr	MESZ	21:55–04:52*	6h 56m	AN <sub>+</sub> bis AN <sub>-</sub>	06:39 19:56 04:54 40m 05:35 37m 06:12 33m 06:46 13h 16m 20:02 33m 20:36 37m 21:14 41m 21:55 10h 41m 6h 56m					Mo, 8. Apr																		
Di, 9. Apr	MESZ	21:57–04:49*	6h 52m	AN <sub>+</sub> bis AN <sub>-</sub>	06:57 21:22 04:52 41m 05:33 37m 06:10 33m 06:44 13h 19m 20:04 33m 20:38 37m 21:15 41m 21:57 10h 38m 6h 52m					Di, 9. Apr																		

Table with 29 columns (1-29) and 61 rows (1-61). Columns include dates (1-29), time zones, astronomical data (Astr. dunkel und kein Mond, Astr., Δt), moon phase (Ph., ↑, ↓), moonrise/set times (Astr., Δt, Naut., Δt, Bürg., Δt), dawn/dusk (Beginn der Morgendämmerung, Sonne), and twilight (Ende der Abenddämmerung, Nacht, Astr. N., Naut. dunkel und kein Mond). Rows list dates from April 10 to May 29.

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
2024	Zeitzone	Astr. dunkel und kein Mond	$\Delta t$		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.	$\Delta t$	$\Delta t$	Naut. dunkel und kein Mond	$\Delta t$	2024	
Do, 30. Mai	MESZ	23:58–02:30*	2h 31m	AN <sub>+</sub> bis M <sub>J</sub>	●	02:11	12:28	02:43	1h 13m	03:57	51m	04:48	41m	05:30	15h 39m	21:10	41m	21:51	51m	22:43	1h 14m	23:58	8h 19m	2h 42m				Do, 30. Mai
Fr, 31. Mai	MESZ	00:01*–02:38*	2h 37m	AN <sub>+</sub> bis AN <sub>-</sub>		02:30	13:48	02:41	1h 14m	03:56	51m	04:48	41m	05:29	15h 41m	21:11	41m	21:53	52m	22:45	1h 16m	00:01*	8h 17m	2h 37m				Fr, 31. Mai
Sa, 1. Jun	MESZ	00:03*–02:36*	2h 32m	AN <sub>+</sub> bis AN <sub>-</sub>		02:47	15:09	02:38	1h 16m	03:55	52m	04:47	41m	05:29	15h 43m	21:12	41m	21:54	52m	22:46	1h 17m	00:03*	8h 16m	2h 32m				Sa, 1. Jun
So, 2. Jun	MESZ	00:06*–02:34*	2h 28m	AN <sub>+</sub> bis AN <sub>-</sub>		03:04	16:29	02:36	1h 17m	03:54	52m	04:46	41m	05:28	15h 44m	21:13	42m	21:55	52m	22:48	1h 18m	00:06*	8h 14m	2h 28m				So, 2. Jun
Mo, 3. Jun	MESZ	00:08*–02:32*	2h 23m	AN <sub>+</sub> bis AN <sub>-</sub>		03:23	17:52	02:34	1h 18m	03:53	52m	04:45	42m	05:27	15h 46m	21:13	42m	21:56	53m	22:49	1h 19m	00:08*	8h 13m	2h 23m				Mo, 3. Jun
Di, 4. Jun	MESZ	00:11*–02:30*	2h 19m	AN <sub>+</sub> bis AN <sub>-</sub>		03:44	19:16	02:32	1h 19m	03:52	53m	04:45	42m	05:27	15h 47m	21:14	42m	21:57	53m	22:50	1h 20m	00:11*	8h 12m	2h 19m				Di, 4. Jun
Mi, 5. Jun	MESZ	00:13*–02:28*	2h 15m	AN <sub>+</sub> bis AN <sub>-</sub>		04:11	20:39	02:30	1h 20m	03:51	53m	04:44	42m	05:26	15h 48m	21:15	42m	21:58	53m	22:51	1h 21m	00:13*	8h 10m	2h 15m				Mi, 5. Jun
Do, 6. Jun	MESZ	00:15*–02:26*	2h 11m	AN <sub>+</sub> bis AN <sub>-</sub>	●	04:46	21:55	02:28	1h 21m	03:50	53m	04:44	42m	05:26	15h 49m	21:16	42m	21:58	53m	22:52	1h 22m	00:15*	8h 09m	2h 11m				Do, 6. Jun
Fr, 7. Jun	MESZ	00:17*–02:25*	2h 07m	AN <sub>+</sub> bis AN <sub>-</sub>		05:33	22:59	02:26	1h 22m	03:49	53m	04:43	42m	05:26	15h 50m	21:17	42m	21:59	54m	22:53	1h 23m	00:17*	8h 08m	2h 07m				Fr, 7. Jun
Sa, 8. Jun	MESZ	00:19*–02:23*	2h 03m	AN <sub>+</sub> bis AN <sub>-</sub>		06:32	23:49	02:25	1h 23m	03:49	54m	04:43	42m	05:25	15h 52m	21:17	42m	22:00	54m	22:54	1h 25m	00:19*	8h 07m	2h 03m				Sa, 8. Jun
So, 9. Jun	MESZ	00:25*–02:21*	1h 56m	M <sub>\</sub> bis AN <sub>-</sub>		07:40	—:—	02:23	1h 25m	03:48	54m	04:42	42m	05:25	15h 53m	21:18	42m	22:01	54m	22:55	1h 26m	00:21*	8h 06m	2h 00m				So, 9. Jun
Mo, 10. Jun	MESZ	00:52*–02:20*	1h 27m	M <sub>\</sub> bis AN <sub>-</sub>		08:53	00:25	02:21	1h 26m	03:47	54m	04:42	42m	05:25	15h 53m	21:19	42m	22:02	54m	22:56	1h 27m	00:23*	8h 05m	1h 56m				Mo, 10. Jun
Di, 11. Jun	MESZ	01:13*–02:19*	1h 06m	M <sub>\</sub> bis AN <sub>-</sub>		10:05	00:52	02:20	1h 27m	03:47	54m	04:42	42m	05:25	15h 54m	21:19	42m	22:02	54m	22:57	1h 27m	00:25*	8h 05m	1h 53m				Di, 11. Jun
Mi, 12. Jun	MESZ	01:29*–02:17*	48m	M <sub>\</sub> bis AN <sub>-</sub>		11:15	01:13	02:19	1h 27m	03:47	54m	04:41	42m	05:24	15h 55m	21:20	43m	22:03	54m	22:58	1h 28m	00:27*	8h 04m	1h 50m				Mi, 12. Jun
Do, 13. Jun	MESZ	01:44*–02:16*	32m	M <sub>\</sub> bis AN <sub>-</sub>		12:22	01:29	02:17	1h 28m	03:46	54m	04:41	43m	05:24	15h 56m	21:20	43m	22:03	55m	22:59	1h 29m	00:28*	8h 03m	1h 48m				Do, 13. Jun
Fr, 14. Jun	MESZ	01:57*–02:15*	18m	M <sub>\</sub> bis AN <sub>-</sub>	◐	13:28	01:44	02:16	1h 29m	03:46	55m	04:41	43m	05:24	15h 56m	21:21	43m	22:04	55m	22:59	1h 30m	00:30*	8h 03m	1h 45m				Fr, 14. Jun
Sa, 15. Jun	MESZ	02:11*–02:15*	3m	M <sub>\</sub> bis AN <sub>-</sub>		14:33	01:57	02:15	1h 30m	03:46	55m	04:41	43m	05:24	15h 57m	21:21	43m	22:04	55m	23:00	1h 30m	00:31*	8h 02m	1h 43m				Sa, 15. Jun
So, 16. Jun	MESZ	—:—:—:—	–	Mond stört		15:39	02:11	02:15	1h 30m	03:46	55m	04:41	43m	05:24	15h 57m	21:22	43m	22:05	55m	23:00	1h 31m	00:32*	8h 02m	1h 42m				So, 16. Jun
Mo, 17. Jun	MESZ	—:—:—:—	–	Mond stört		16:48	02:25	02:14	1h 31m	03:46	55m	04:41	43m	05:24	15h 57m	21:22	43m	22:05	55m	23:01	1h 31m	00:33*	8h 02m	1h 40m				Mo, 17. Jun
Di, 18. Jun	MESZ	—:—:—:—	–	Mond stört		17:59	02:43	02:14	1h 31m	03:46	55m	04:41	43m	05:24	15h 58m	21:22	43m	22:06	55m	23:01	1h 32m	00:33*	8h 02m	1h 40m				Di, 18. Jun
Mi, 19. Jun	MESZ	—:—:~:~	–	Mond stört		19:13	03:04	02:13	1h 32m	03:46	55m	04:41	43m	05:24	15h 58m	21:23	43m	22:06	55m	23:01	1h 32m	00:34*	8h 01m	1h 39m				Mi, 19. Jun
Do, 20. Jun	MESZ	—:~:~:~	–	Mond stört		20:27	03:33	02:13	1h 32m	03:46	55m	04:41	43m	05:25	15h 58m	21:23	43m	22:06	55m	23:02	1h 32m	00:34*	8h 01m	1h 39m				Do, 20. Jun
Fr, 21. Jun	MESZ	~:~:~:~	–	Mond stört		21:35	04:12	02:13	1h 32m	03:46	55m	04:41	43m	05:25	15h 58m	21:23	43m	22:06	55m	23:02	1h 32m	00:34*	8h 01m	1h 39m				Fr, 21. Jun
Sa, 22. Jun	MESZ	~:~:~:~	–	Mond stört	◑	22:32	05:04	02:14	1h 32m	03:46	55m	04:42	43m	05:25	15h 58m	21:23	43m	22:06	55m	23:02	1h 32m	00:34*	8h 02m	1h 40m				Sa, 22. Jun
So, 23. Jun	MESZ	~:~:~:~	–	Mond stört		23:17	06:12	02:14	1h 32m	03:46	55m	04:42	43m	05:25	15h 58m	21:23	43m	22:07	55m	23:02	1h 31m	00:34*	8h 02m	1h 41m				So, 23. Jun
Mo, 24. Jun	MESZ	~:~:~:~	–	Mond stört		23:50	07:30	02:15	1h 31m	03:47	55m	04:42	43m	05:26	15h 57m	21:23	43m	22:07	55m	23:02	1h 31m	00:33*	8h 02m	1h 42m				Mo, 24. Jun
Di, 25. Jun	MESZ	~:~:~:~	–	Mond stört		—:—	08:53	02:16	1h 31m	03:47	55m	04:43	43m	05:26	15h 57m	21:23	43m	22:07	55m	23:02	1h 30m	00:33*	8h 02m	1h 44m				Di, 25. Jun
Mi, 26. Jun	MESZ	00:32*–00:36*	3m	AN <sub>+</sub> bis M <sub>J</sub>		00:15	10:16	02:17	1h 30m	03:48	55m	04:43	43m	05:26	15h 57m	21:23	43m	22:07	55m	23:02	1h 30m	00:32*	8h 03m	1h 46m				Mi, 26. Jun
Do, 27. Jun	MESZ	00:31*–00:53*	22m	AN <sub>+</sub> bis M <sub>J</sub>		00:36	11:38	02:18	1h 30m	03:48	55m	04:44	43m	05:27	15h 56m	21:23	43m	22:06	55m	23:02	1h 29m	00:31*	8h 03m	1h 48m				Do, 27. Jun
Fr, 28. Jun	MESZ	00:30*–01:10*	40m	AN <sub>+</sub> bis M <sub>J</sub>	◑	00:53	12:58	02:20	1h 29m	03:49	55m	04:44	43m	05:27	15h 55m	21:23	43m	22:06	54m	23:01	1h 28m	00:30*	8h 04m	1h 51m				Fr, 28. Jun
Sa, 29. Jun	MESZ	00:29*–01:28*	59m	AN <sub>+</sub> bis M <sub>J</sub>		01:10	14:17	02:21	1h 28m	03:50	54m	04:45	43m	05:28	15h 55m	21:23	42m	22:06	54m	23:01	1h 27m	00:29*	8h 05m	1h 54m				Sa, 29. Jun
So, 30. Jun	MESZ	00:27*–01:48*	1h 20m	AN <sub>+</sub> bis M <sub>J</sub>		01:28	15:38	02:23	1h 27m	03:51	54m	04:45	42m	05:28	15h 54m	21:23	42m	22:06	54m	23:00	1h 26m	00:27*	8h 06m	1h 57m				So, 30. Jun
Mo, 1. Jul	MESZ	00:26*–02:12*	1h 46m	AN <sub>+</sub> bis M <sub>J</sub>		01:48	17:00	02:25	1h 26m	03:51	54m	04:46	42m	05:29	15h 53m	21:23	42m	22:05	54m	23:00	1h 25m	00:26*	8h 06m	2h 00m				Mo, 1. Jul
Di, 2. Jul	MESZ	00:24*–02:28*	2h 04m	AN <sub>+</sub> bis AN <sub>-</sub>		02:12	18:21	02:27	1h 25m	03:52	54m	04:47	42m	05:30	15h 52m	21:22	42m	22:05	54m	22:59	1h 24m	00:24*	8h 07m	2h 04m				Di, 2. Jul
Mi, 3. Jul	MESZ	00:22*–02:31*	2h 08m	AN <sub>+</sub> bis AN <sub>-</sub>		02:43	19:39	02:28	1h 24m	03:53	54m	04:48	42m	05:30	15h 51m	21:22	42m	22:05	54m	22:59	1h 23m	00:22*	8h 08m	2h 08m				Mi, 3. Jul
Do, 4. Jul	MESZ	00:21*–02:33*	2h 12m	AN <sub>+</sub> bis AN <sub>-</sub>		03:24	20:47	02:31	1h 23m	03:54	54m	04:48	42m	05:31	15h 50m	21:22	42m	22:04	53m	22:58	1h 22m	00:21*	8h 09m	2h 12m				Do, 4. Jul
Fr, 5. Jul	MESZ	00:19*–02:35*	2h 16m	AN <sub>+</sub> bis AN <sub>-</sub>		04:18	21:41	02:33	1h 22m	03:55	53m	04:49	42m	05:32	15h 49m	21:21	42m	22:04	53m	22:57	1h 21m	00:19*	8h 11m	2h 16m				Fr, 5. Jul
Sa, 6. Jul	MESZ	00:17*–02:37*	2h 20m	AN <sub>+</sub> bis AN <sub>-</sub>	●	05:23	22:22	02:35	1h 21m	03:56	53m	04:50	42m	05:32	15h 48m	21:21	42m	22:03	53m	22:56	1h 20m	00:17*	8h 12m	2h 20m				Sa, 6. Jul
So, 7. Jul	MESZ	00:15*–02:40*	2h 24m	AN <sub>+</sub> bis AN <sub>-</sub>		06:34	22:53	02:37	1h 20m	03:58	53m	04:51	42m	05:33	15h 47m	21:20	42m	22:03	53m	22:56	1h 19m	00:15*	8h 13m	2h 24m				So, 7. Jul
Mo, 8. Jul	MESZ	00:13*–02:42*	2h 29m	AN <sub>+</sub> bis AN <sub>-</sub>		07:48	23:16	02:40	1h 19m	03:59	53m	04:52	42m	05:34	15h 45m	21:20	42m	22:02	52m	22:55	1h 18m	00:13*	8h 15m	2h 29m				Mo, 8. Jul
Di, 9. Jul	MESZ	00:11*–02:44*	2h 33m	AN <sub>+</sub> bis AN <sub>-</sub>		08:59	23:34	02:42	1h 18m	04:00	52m	04:53	42m	05:35	15h 44m	21:19	41m	22:01	52m	22:54	1h 16m	00:11*	8h 16m	2h 33m				Di, 9. Jul
Mi, 10. Jul	MESZ	00:08*–02:47*	2h 38m	AN <sub>+</sub> bis AN <sub>-</sub>		10:08	23:49	02:44	1h 16m	04:01	52m	04:54	41m	05:36	15h 42m	21:19	41m	22:00	52m	22:53	1h 15m	00:08*	8h 18m					



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
2024	Zeit-	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung					Sonne			Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond				2024	
	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, 19. Jul	MESZ	—:—:—:—:—	–	Mond stört		20:20	02:50	03:07	1h 07m	04:14	49m	05:04	40m	05:45	15h 26m	21:11	40m	21:52	49m	22:41	1h 06m	23:47	8h 34m	3h 22m				Fr, 19. Jul
Sa, 20. Jul	MESZ	—:—:—:—:—	–	Mond stört		21:11	03:52	03:10	1h 06m	04:16	49m	05:05	40m	05:46	15h 24m	21:10	40m	21:50	49m	22:40	1h 05m	23:45	8h 36m	3h 27m				Sa, 20. Jul
So, 21. Jul	MESZ	—:—:~:~:~:~	–	Mond stört	☉	21:49	05:07	03:12	1h 05m	04:18	49m	05:07	40m	05:47	15h 22m	21:09	39m	21:49	48m	22:38	1h 04m	23:42	8h 38m	3h 32m				So, 21. Jul
Mo, 22. Jul	MESZ	—:~:~:~:~:~	–	Mond stört		22:17	06:31	03:15	1h 04m	04:19	48m	05:08	39m	05:48	15h 20m	21:08	39m	21:48	48m	22:36	1h 03m	23:40	8h 41m	3h 37m				Mo, 22. Jul
Di, 23. Jul	MESZ	—:~:~:~:~:~	–	Mond stört		22:40	07:57	03:18	1h 03m	04:21	48m	05:09	39m	05:49	15h 17m	21:07	39m	21:47	48m	22:35	1h 02m	23:37	8h 43m	3h 42m				Di, 23. Jul
Mi, 24. Jul	MESZ	—:~:~:~:~:~	–	Mond stört		22:59	09:22	03:20	1h 02m	04:23	48m	05:11	39m	05:50	15h 15m	21:06	39m	21:45	47m	22:33	1h 01m	23:35	8h 45m	3h 47m				Mi, 24. Jul
Do, 25. Jul	MESZ	—:~:~:~:~:~	–	Mond stört		23:16	10:45	03:23	1h 01m	04:24	47m	05:12	39m	05:52	15h 13m	21:05	39m	21:44	47m	22:31	1h 00m	23:32	8h 47m	3h 52m				Do, 25. Jul
Fr, 26. Jul	MESZ	23:30–23:34	3m	AN <sub>+</sub> bis M <sub>7</sub>		23:34	12:06	03:25	1h 00m	04:26	47m	05:13	39m	05:53	15h 10m	21:04	39m	21:43	47m	22:30	59m	23:30	8h 50m	3h 58m				Fr, 26. Jul
Sa, 27. Jul	MESZ	23:27–23:53	25m	AN <sub>+</sub> bis M <sub>7</sub>		23:53	13:27	03:28	59m	04:28	47m	05:15	39m	05:54	15h 08m	21:02	38m	21:41	46m	22:28	59m	23:27	8h 52m	4h 03m				Sa, 27. Jul
So, 28. Jul	MESZ	23:25–00:15*	50m	AN <sub>+</sub> bis M <sub>7</sub>	☾	—:—	14:49	03:30	59m	04:29	46m	05:16	38m	05:55	15h 05m	21:01	38m	21:40	46m	22:26	58m	23:25	8h 55m	4h 08m				So, 28. Jul
Mo, 29. Jul	MESZ	23:22–00:44*	1h 21m	AN <sub>+</sub> bis M <sub>7</sub>		00:15	16:10	03:33	58m	04:31	46m	05:18	38m	05:56	15h 03m	21:00	38m	21:38	46m	22:24	57m	23:22	8h 57m	4h 13m				Mo, 29. Jul
Di, 30. Jul	MESZ	23:19–01:21*	2h 01m	AN <sub>+</sub> bis M <sub>7</sub>		00:44	17:28	03:35	57m	04:33	46m	05:19	38m	05:58	15h 00m	20:58	38m	21:37	45m	22:23	56m	23:19	9h 00m	4h 18m				Di, 30. Jul
Mi, 31. Jul	MESZ	23:17–02:10*	2h 53m	AN <sub>+</sub> bis M <sub>7</sub>		01:21	18:39	03:38	56m	04:35	45m	05:20	38m	05:59	14h 58m	20:57	38m	21:35	45m	22:21	56m	23:17	9h 03m	4h 23m				Mi, 31. Jul
Do, 1. Aug	MESZ	23:14–03:11*	3h 56m	AN <sub>+</sub> bis M <sub>7</sub>		02:10	19:37	03:40	56m	04:36	45m	05:22	38m	06:00	14h 55m	20:56	38m	21:34	45m	22:19	55m	23:14	9h 05m	4h 28m				Do, 1. Aug
Fr, 2. Aug	MESZ	23:12–03:45*	4h 33m	AN <sub>+</sub> bis AN <sub>-</sub>		03:11	20:21	03:43	55m	04:38	45m	05:23	38m	06:01	14h 52m	20:54	37m	21:32	44m	22:17	54m	23:12	9h 08m	4h 33m				Fr, 2. Aug
Sa, 3. Aug	MESZ	23:09–03:48*	4h 38m	AN <sub>+</sub> bis AN <sub>-</sub>		04:20	20:55	03:45	54m	04:40	44m	05:25	37m	06:03	14h 50m	20:53	37m	21:30	44m	22:15	54m	23:09	9h 11m	4h 38m				Sa, 3. Aug
So, 4. Aug	MESZ	23:06–03:50*	4h 43m	AN <sub>+</sub> bis AN <sub>-</sub>	☀	05:32	21:19	03:48	54m	04:42	44m	05:26	37m	06:04	14h 47m	20:51	37m	21:29	44m	22:13	53m	23:06	9h 13m	4h 43m				So, 4. Aug
Mo, 5. Aug	MESZ	23:04–03:52*	4h 48m	AN <sub>+</sub> bis AN <sub>-</sub>		06:44	21:39	03:50	53m	04:43	44m	05:28	37m	06:05	14h 44m	20:50	37m	21:27	43m	22:11	52m	23:04	9h 16m	4h 48m				Mo, 5. Aug
Di, 6. Aug	MESZ	23:01–03:55*	4h 53m	AN <sub>+</sub> bis AN <sub>-</sub>		07:54	21:55	03:52	52m	04:45	43m	05:29	37m	06:07	14h 41m	20:48	37m	21:25	43m	22:09	52m	23:01	9h 19m	4h 53m				Di, 6. Aug
Mi, 7. Aug	MESZ	22:59–03:57*	4h 58m	AN <sub>+</sub> bis AN <sub>-</sub>		09:02	22:09	03:55	52m	04:47	43m	05:31	37m	06:08	14h 38m	20:47	37m	21:24	43m	22:07	51m	22:59	9h 22m	4h 58m				Mi, 7. Aug
Do, 8. Aug	MESZ	22:56–04:00*	5h 03m	AN <sub>+</sub> bis AN <sub>-</sub>		10:07	22:22	03:57	51m	04:49	43m	05:32	37m	06:09	14h 36m	20:45	36m	21:22	43m	22:05	50m	22:56	9h 25m	5h 03m				Do, 8. Aug
Fr, 9. Aug	MESZ	22:53–04:02*	5h 08m	AN <sub>+</sub> bis AN <sub>-</sub>		11:13	22:35	04:00	50m	04:51	43m	05:34	36m	06:10	14h 33m	20:44	36m	21:20	42m	22:03	50m	22:53	9h 28m	5h 08m				Fr, 9. Aug
Sa, 10. Aug	MESZ	22:51–04:04*	5h 13m	AN <sub>+</sub> bis AN <sub>-</sub>		12:18	22:50	04:02	50m	04:52	42m	05:35	36m	06:12	14h 30m	20:42	36m	21:18	42m	22:01	49m	22:51	9h 31m	5h 13m				Sa, 10. Aug
So, 11. Aug	MESZ	23:07–04:06*	4h 58m	M <sub>7</sub> bis AN <sub>-</sub>		13:26	23:07	04:04	49m	04:54	42m	05:37	36m	06:13	14h 27m	20:40	36m	21:17	42m	21:59	49m	22:48	9h 34m	5h 18m				So, 11. Aug
Mo, 12. Aug	MESZ	23:29–04:09*	4h 39m	M <sub>7</sub> bis AN <sub>-</sub>	☾	14:36	23:29	04:06	49m	04:56	42m	05:38	36m	06:14	14h 24m	20:39	36m	21:15	41m	21:57	48m	22:46	9h 37m	5h 23m				Mo, 12. Aug
Di, 13. Aug	MESZ	23:58–04:11*	4h 12m	M <sub>7</sub> bis AN <sub>-</sub>		15:48	23:58	04:09	48m	04:57	41m	05:39	36m	06:16	14h 21m	20:37	36m	21:13	41m	21:55	48m	22:43	9h 40m	5h 27m				Di, 13. Aug
Mi, 14. Aug	MESZ	00:38*–04:13*	3h 35m	M <sub>7</sub> bis AN <sub>-</sub>		16:59	—:—	04:11	48m	04:59	41m	05:41	36m	06:17	14h 18m	20:35	35m	21:11	41m	21:53	47m	22:40	9h 43m	5h 32m				Mi, 14. Aug
Do, 15. Aug	MESZ	01:31*–04:15*	2h 44m	M <sub>7</sub> bis AN <sub>-</sub>		18:05	00:38	04:13	47m	05:01	41m	05:42	35m	06:18	14h 15m	20:34	35m	21:09	41m	21:50	47m	22:38	9h 46m	5h 37m				Do, 15. Aug
Fr, 16. Aug	MESZ	02:40*–04:17*	1h 37m	M <sub>7</sub> bis AN <sub>-</sub>		19:00	01:31	04:15	47m	05:03	41m	05:44	35m	06:20	14h 12m	20:32	35m	21:07	40m	21:48	46m	22:35	9h 49m	5h 42m				Fr, 16. Aug
Sa, 17. Aug	MESZ	04:01*–04:20*	18m	M <sub>7</sub> bis AN <sub>-</sub>		19:44	02:40	04:17	46m	05:04	40m	05:45	35m	06:21	14h 09m	20:30	35m	21:06	40m	21:46	46m	22:33	9h 52m	5h 46m				Sa, 17. Aug
So, 18. Aug	MESZ	—:~:~:~:~:~	–	Mond stört		20:16	04:01	04:20	46m	05:06	40m	05:47	35m	06:22	14h 05m	20:28	35m	21:04	40m	21:44	46m	22:30	9h 55m	5h 51m				So, 18. Aug
Mo, 19. Aug	MESZ	—:~:~:~:~:~	–	Mond stört	☉	20:42	05:27	04:22	46m	05:08	40m	05:48	35m	06:24	14h 02m	20:26	35m	21:02	40m	21:42	45m	22:27	9h 58m	5h 56m				Mo, 19. Aug
Di, 20. Aug	MESZ	—:~:~:~:~:~	–	Mond stört		21:02	06:55	04:24	45m	05:09	40m	05:50	35m	06:25	13h 59m	20:25	35m	21:00	39m	21:40	45m	22:25	10h 01m	6h 01m				Di, 20. Aug
Mi, 21. Aug	MESZ	—:~:~:~:~:~	–	Mond stört		21:21	08:21	04:26	45m	05:11	40m	05:51	35m	06:26	13h 56m	20:23	34m	20:58	39m	21:38	44m	22:22	10h 04m	6h 05m				Mi, 21. Aug
Do, 22. Aug	MESZ	—:~:~:~:~:~	–	Mond stört		21:38	09:46	04:28	44m	05:13	39m	05:53	34m	06:28	13h 53m	20:21	34m	20:56	39m	21:35	44m	22:20	10h 08m	6h 10m				Do, 22. Aug
Fr, 23. Aug	MESZ	—:~:~:~:~:~	–	Mond stört		21:57	11:10	04:30	44m	05:15	39m	05:54	34m	06:29	13h 50m	20:19	34m	20:54	39m	21:33	44m	22:17	10h 11m	6h 14m				Fr, 23. Aug
Sa, 24. Aug	MESZ	22:15–22:19	3m	AN <sub>+</sub> bis M <sub>7</sub>		22:19	12:34	04:32	44m	05:16	39m	05:56	34m	06:30	13h 46m	20:17	34m	20:52	39m	21:31	43m	22:15	10h 14m	6h 19m				Sa, 24. Aug
So, 25. Aug	MESZ	22:12–22:45	33m	AN <sub>+</sub> bis M <sub>7</sub>		22:45	13:58	04:34	43m	05:18	39m	05:57	34m	06:32	13h 43m	20:15	34m	20:50	38m	21:29	43m	22:12	10h 17m	6h 24m				So, 25. Aug
Mo, 26. Aug	MESZ	22:10–23:20	1h 10m	AN <sub>+</sub> bis M <sub>7</sub>	☾	23:20	15:19	04:36	43m	05:19	38m	05:58	34m	06:33	13h 40m	20:13	34m	20:48	38m	21:27	42m	22:10	10h 20m	6h 28m				Mo, 26. Aug
Di, 27. Aug	MESZ	22:07–00:05*	1h 58m	AN <sub>+</sub> bis M <sub>7</sub>		—:—	16:32	04:38	43m	05:21	38m	06:00	34m	06:34	13h 37m	20:12	34m	20:46	38m	21:24	42m	22:07	10h 24m	6h 33m				Di, 27. Aug
Mi, 28. Aug	MESZ	22:04–01:03*	2h 58m	AN <sub>+</sub> bis M <sub>7</sub>		00:05	17:34	04:40	42m	05:23	38m	06:01	34m	06:36	13h 34m	20:10	34m	20:44	38m	21:22	42m	22:04	10h 27m	6h 37m				Mi, 28. Aug
Do, 29. Aug	MESZ	22:02–02:09*	4h 07m	AN <sub>+</sub> bis M <sub>7</sub>		01:03	18:22	04:42	42m	05:24	38m	06:03	34m	06:37	13h 30m	20:08	34m	20:42	38m	21:20	42m	22:02	10h 30m	6h 41m				Do, 29. Aug
Fr, 30. Aug	MESZ</																											

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	
2024	Zeit-	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung					Sonne				Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond			2024		
	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.	$\Delta t$	$\Delta t$		$\Delta t$			
Sa, 7. Sep	MESZ	21:40–05:00*	7h 20m	AN <sub>+</sub> bis AN <sub>-</sub>		11:15	21:13	04:59	39m	05:39	36m	06:16	33m	06:49	13h 00m	19:50	33m	20:23	36m	21:00	39m	21:40	11h 00m	7h 20m					Sa, 7. Sep
So, 8. Sep	MESZ	21:37–05:02*	7h 24m	AN <sub>+</sub> bis AN <sub>-</sub>		12:23	21:32	05:00	39m	05:40	36m	06:17	33m	06:50	12h 57m	19:48	33m	20:21	36m	20:58	39m	21:37	11h 03m	7h 24m					So, 8. Sep
Mo, 9. Sep	MESZ	21:57–05:04*	7h 06m	M <sub>\searrow</sub> bis AN <sub>-</sub>		13:34	21:57	05:02	39m	05:42	36m	06:18	33m	06:52	12h 54m	19:46	33m	20:19	36m	20:55	39m	21:35	11h 07m	7h 29m					Mo, 9. Sep
Di, 10. Sep	MESZ	22:31–05:06*	6h 34m	M <sub>\searrow</sub> bis AN <sub>-</sub>		14:44	22:31	05:04	39m	05:43	36m	06:20	33m	06:53	12h 50m	19:44	33m	20:17	36m	20:53	39m	21:32	11h 10m	7h 33m					Di, 10. Sep
Mi, 11. Sep	MESZ	23:17–05:07*	5h 50m	M <sub>\searrow</sub> bis AN <sub>-</sub>	☾	15:51	23:17	05:06	39m	05:45	36m	06:21	33m	06:54	12h 47m	19:42	32m	20:15	36m	20:51	38m	21:30	11h 13m	7h 37m					Mi, 11. Sep
Do, 12. Sep	MESZ	00:18*–05:09*	4h 51m	M <sub>\searrow</sub> bis AN <sub>-</sub>		16:50	—:—	05:07	38m	05:46	36m	06:23	33m	06:56	12h 44m	19:40	32m	20:13	36m	20:49	38m	21:28	11h 17m	7h 41m					Do, 12. Sep
Fr, 13. Sep	MESZ	01:32*–05:11*	3h 39m	M <sub>\searrow</sub> bis AN <sub>-</sub>		17:37	00:18	05:09	38m	05:48	36m	06:24	32m	06:57	12h 40m	19:38	32m	20:11	36m	20:47	38m	21:25	11h 20m	7h 45m					Fr, 13. Sep
Sa, 14. Sep	MESZ	02:54*–05:12*	2h 17m	M <sub>\searrow</sub> bis AN <sub>-</sub>		18:13	01:32	05:11	38m	05:49	36m	06:25	32m	06:58	12h 37m	19:36	32m	20:08	35m	20:44	38m	21:23	11h 23m	7h 49m					Sa, 14. Sep
So, 15. Sep	MESZ	04:21*–05:14*	53m	M <sub>\searrow</sub> bis AN <sub>-</sub>		18:41	02:54	05:12	38m	05:51	36m	06:27	32m	07:00	12h 34m	19:34	32m	20:06	35m	20:42	38m	21:20	11h 27m	7h 53m					So, 15. Sep
Mo, 16. Sep	MESZ	—:—:—:—	—	Mond stört		19:04	04:21	05:14	38m	05:52	35m	06:28	32m	07:01	12h 30m	19:32	32m	20:04	35m	20:40	37m	21:18	11h 30m	7h 57m					Mo, 16. Sep
Di, 17. Sep	MESZ	—:—:—:—	—	Mond stört		19:23	05:48	05:16	37m	05:54	35m	06:29	32m	07:02	12h 27m	19:30	32m	20:02	35m	20:38	37m	21:16	11h 33m	8h 01m					Di, 17. Sep
Mi, 18. Sep	MESZ	—:—:~:~	—	Mond stört	☉	19:41	07:15	05:17	37m	05:55	35m	06:31	32m	07:04	12h 24m	19:28	32m	20:00	35m	20:36	37m	21:13	11h 37m	8h 05m					Mi, 18. Sep
Do, 19. Sep	MESZ	—:~:~:~	—	Mond stört		20:00	08:41	05:19	37m	05:56	35m	06:32	32m	07:05	12h 20m	19:25	32m	19:58	35m	20:34	37m	21:11	11h 40m	8h 09m					Do, 19. Sep
Fr, 20. Sep	MESZ	—:~:~:~	—	Mond stört		20:20	10:08	05:20	37m	05:58	35m	06:34	32m	07:06	12h 17m	19:23	32m	19:56	35m	20:31	37m	21:09	11h 44m	8h 13m					Fr, 20. Sep
Sa, 21. Sep	MESZ	—:~:~:~	—	Mond stört		20:46	11:36	05:22	37m	05:59	35m	06:35	32m	07:08	12h 13m	19:21	32m	19:54	35m	20:29	37m	21:07	11h 47m	8h 16m					Sa, 21. Sep
So, 22. Sep	MESZ	21:04–21:18	13m	AN <sub>+</sub> bis M <sub>\nearrow</sub>		21:18	13:01	05:24	37m	06:01	35m	06:36	32m	07:09	12h 10m	19:19	32m	19:52	35m	20:27	37m	21:04	11h 50m	8h 20m					So, 22. Sep
Mo, 23. Sep	MESZ	21:02–22:01	58m	AN <sub>+</sub> bis M <sub>\nearrow</sub>		22:00	14:21	05:25	37m	06:02	35m	06:38	32m	07:10	12h 07m	19:17	32m	19:50	35m	20:25	36m	21:02	11h 54m	8h 24m					Mo, 23. Sep
Di, 24. Sep	MESZ	21:00–22:55	1h 55m	AN <sub>+</sub> bis M <sub>\nearrow</sub>	☾	22:55	15:29	05:27	37m	06:04	35m	06:39	32m	07:12	12h 03m	19:15	32m	19:48	35m	20:23	36m	21:00	11h 57m	8h 28m					Di, 24. Sep
Mi, 25. Sep	MESZ	20:58–00:00*	3h 02m	AN <sub>+</sub> bis M <sub>\nearrow</sub>		—:—	16:22	05:28	36m	06:05	35m	06:40	32m	07:13	12h 00m	19:13	32m	19:46	35m	20:21	36m	20:58	12h 01m	8h 32m					Mi, 25. Sep
Do, 26. Sep	MESZ	20:55–01:11*	4h 15m	AN <sub>+</sub> bis M <sub>\nearrow</sub>		00:00	17:01	05:30	36m	06:07	35m	06:42	32m	07:14	11h 56m	19:11	32m	19:44	35m	20:19	36m	20:55	12h 04m	8h 35m					Do, 26. Sep
Fr, 27. Sep	MESZ	20:53–02:23*	5h 29m	AN <sub>+</sub> bis M <sub>\nearrow</sub>		01:11	17:30	05:31	36m	06:08	35m	06:43	32m	07:16	11h 53m	19:09	32m	19:42	35m	20:17	36m	20:53	12h 07m	8h 39m					Fr, 27. Sep
Sa, 28. Sep	MESZ	20:51–03:33*	6h 42m	AN <sub>+</sub> bis M <sub>\nearrow</sub>		02:23	17:52	05:33	36m	06:09	35m	06:44	32m	07:17	11h 50m	19:07	32m	19:40	35m	20:15	36m	20:51	12h 11m	8h 43m					Sa, 28. Sep
So, 29. Sep	MESZ	20:49–04:42*	7h 52m	AN <sub>+</sub> bis M <sub>\nearrow</sub>		03:33	18:09	05:34	36m	06:11	35m	06:46	32m	07:18	11h 46m	19:05	32m	19:38	34m	20:13	36m	20:49	12h 14m	8h 46m					So, 29. Sep
Mo, 30. Sep	MESZ	20:47–05:37*	8h 50m	AN <sub>+</sub> bis AN <sub>-</sub>		04:42	18:24	05:36	36m	06:12	35m	06:47	32m	07:20	11h 43m	19:03	32m	19:36	34m	20:10	36m	20:47	12h 17m	8h 50m					Mo, 30. Sep
Di, 1. Okt	MESZ	20:45–05:39*	8h 54m	AN <sub>+</sub> bis AN <sub>-</sub>		05:48	18:38	05:37	36m	06:14	34m	06:49	32m	07:21	11h 40m	19:01	32m	19:34	34m	20:08	36m	20:45	12h 21m	8h 54m					Di, 1. Okt
Mi, 2. Okt	MESZ	20:43–05:40*	8h 57m	AN <sub>+</sub> bis AN <sub>-</sub>	☉	06:53	18:51	05:39	36m	06:15	34m	06:50	32m	07:22	11h 36m	18:59	32m	19:32	34m	20:06	36m	20:43	12h 24m	8h 57m					Mi, 2. Okt
Do, 3. Okt	MESZ	20:40–05:42*	9h 01m	AN <sub>+</sub> bis AN <sub>-</sub>		07:59	19:04	05:40	36m	06:16	34m	06:51	32m	07:24	11h 33m	18:57	32m	19:30	34m	20:04	36m	20:40	12h 28m	9h 01m					Do, 3. Okt
Fr, 4. Okt	MESZ	20:38–05:43*	9h 04m	AN <sub>+</sub> bis AN <sub>-</sub>		09:05	19:19	05:42	36m	06:18	34m	06:53	32m	07:25	11h 29m	18:55	32m	19:28	34m	20:02	35m	20:38	12h 31m	9h 04m					Fr, 4. Okt
Sa, 5. Okt	MESZ	20:36–05:45*	9h 08m	AN <sub>+</sub> bis AN <sub>-</sub>		10:13	19:38	05:43	36m	06:19	34m	06:54	32m	07:27	11h 26m	18:53	32m	19:26	34m	20:00	35m	20:36	12h 34m	9h 08m					Sa, 5. Okt
So, 6. Okt	MESZ	20:34–05:46*	9h 11m	AN <sub>+</sub> bis AN <sub>-</sub>		11:23	20:01	05:45	35m	06:21	34m	06:55	32m	07:28	11h 23m	18:51	32m	19:24	34m	19:58	35m	20:34	12h 38m	9h 11m					So, 6. Okt
Mo, 7. Okt	MESZ	20:32–05:47*	9h 15m	AN <sub>+</sub> bis AN <sub>-</sub>		12:34	20:31	05:46	35m	06:22	34m	06:57	32m	07:29	11h 19m	18:49	32m	19:22	34m	19:57	35m	20:32	12h 41m	9h 15m					Mo, 7. Okt
Di, 8. Okt	MESZ	21:12–05:49*	8h 37m	M <sub>\searrow</sub> bis AN <sub>-</sub>		13:41	21:12	05:47	35m	06:23	34m	06:58	32m	07:31	11h 16m	18:47	32m	19:20	34m	19:55	35m	20:30	12h 44m	9h 18m					Di, 8. Okt
Mi, 9. Okt	MESZ	22:05–05:50*	7h 44m	M <sub>\searrow</sub> bis AN <sub>-</sub>		14:42	22:05	05:49	35m	06:25	34m	07:00	32m	07:32	11h 13m	18:45	32m	19:18	34m	19:53	35m	20:28	12h 48m	9h 21m					Mi, 9. Okt
Do, 10. Okt	MESZ	23:12–05:52*	6h 39m	M <sub>\searrow</sub> bis AN <sub>-</sub>	☾	15:32	23:12	05:50	35m	06:26	34m	07:01	32m	07:34	11h 09m	18:43	32m	19:16	34m	19:51	35m	20:26	12h 51m	9h 25m					Do, 10. Okt
Fr, 11. Okt	MESZ	00:29*–05:53*	5h 24m	M <sub>\searrow</sub> bis AN <sub>-</sub>		16:11	—:—	05:52	35m	06:27	34m	07:02	32m	07:35	11h 06m	18:41	32m	19:14	34m	19:49	35m	20:25	12h 55m	9h 28m					Fr, 11. Okt
Sa, 12. Okt	MESZ	01:51*–05:54*	4h 03m	M <sub>\searrow</sub> bis AN <sub>-</sub>		16:41	00:29	05:53	35m	06:29	34m	07:04	32m	07:36	11h 03m	18:40	32m	19:12	34m	19:47	35m	20:23	12h 58m	9h 31m					Sa, 12. Okt
So, 13. Okt	MESZ	03:16*–05:56*	2h 40m	M <sub>\searrow</sub> bis AN <sub>-</sub>		17:05	01:51	05:55	35m	06:30	34m	07:05	32m	07:38	10h 59m	18:38	32m	19:10	34m	19:45	35m	20:21	13h 01m	9h 35m					So, 13. Okt
Mo, 14. Okt	MESZ	04:40*–05:57*	1h 16m	M <sub>\searrow</sub> bis AN <sub>-</sub>		17:25	03:16	05:56	35m	06:32	34m	07:06	32m	07:39	10h 56m	18:36	32m	19:09	34m	19:43	35m	20:19	13h 04m	9h 38m					Mo, 14. Okt
Di, 15. Okt	MESZ	—:~:~:~	—	Mond stört		17:43	04:40	05:57	35m	06:33	34m	07:08	32m	07:41	10h 53m	18:34	32m	19:07	34m	19:42	35m	20:17	13h 08m	9h 41m					Di, 15. Okt
Mi, 16. Okt	MESZ	—:~:~:~	—	Mond stört		18:01	06:06	05:59	35m	06:34	34m	07:09	32m	07:42	10h 49m	18:32	32m	19:05	34m	19:40	35m	20:15	13h 11m	9h 44m					Mi, 16. Okt
Do, 17. Okt	MESZ	—:~:~:~	—	Mond stört	☉	18:21	07:33	06:00	35m	06:36	34m	07:11	33m	07:44	10h 46m	18:30	32m	19:03	34m	19:38	35m	20:13	13h 14m	9h 47m					Do, 17. Okt
Fr, 18. Okt	MESZ	—:~:~:~	—	Mond stört		18:44	09:02	06:01	35m																				

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
2024	Zeit-	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung					Sonne				Ende der Abenddämmerung					Nacht	Astr. N.	Naut. dunkel und kein Mond			2024	
	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.	$\Delta t$	$\Delta t$		$\Delta t$		
So, 27. Okt		18:57–02:39*	7h 41m	AN <sub>+</sub> bis M <sub>J</sub>		01:32	15:32	05:14	35m	05:49	35m	06:25	33m	06:58	10h 14m	17:13	33m	17:46	35m	18:22	35m	18:57	13h 47m	10h 17m				So, 27. Okt
Mo, 28. Okt		18:56–03:44*	8h 48m	AN <sub>+</sub> bis M <sub>J</sub>		02:39	15:46	05:15	35m	05:51	35m	06:26	33m	07:00	10h 11m	17:11	33m	17:45	35m	18:20	35m	18:56	13h 50m	10h 20m				Mo, 28. Okt
Di, 29. Okt		18:54–04:49*	9h 55m	AN <sub>+</sub> bis M <sub>J</sub>		03:44	15:59	05:16	35m	05:52	35m	06:27	33m	07:01	10h 08m	17:09	33m	17:43	35m	18:19	35m	18:54	13h 53m	10h 23m				Di, 29. Okt
Mi, 30. Okt		18:53–05:19*	10h 26m	AN <sub>+</sub> bis AN <sub>-</sub>		04:49	16:12	05:18	35m	05:53	35m	06:29	33m	07:03	10h 05m	17:08	33m	17:42	35m	18:17	35m	18:53	13h 56m	10h 26m				Mi, 30. Okt
Do, 31. Okt		18:51–05:20*	10h 29m	AN <sub>+</sub> bis AN <sub>-</sub>		05:55	16:27	05:19	35m	05:55	35m	06:30	34m	07:04	10h 01m	17:06	34m	17:40	35m	18:16	35m	18:51	13h 59m	10h 29m				Do, 31. Okt
Fr, 1. Nov		18:50–05:22*	10h 31m	AN <sub>+</sub> bis AN <sub>-</sub>	●	07:03	16:44	05:20	35m	05:56	35m	06:32	34m	07:06	9h 58m	17:05	34m	17:39	35m	18:14	35m	18:50	14h 02m	10h 31m				Fr, 1. Nov
Sa, 2. Nov		18:49–05:23*	10h 34m	AN <sub>+</sub> bis AN <sub>-</sub>		08:13	17:06	05:22	35m	05:57	35m	06:33	34m	07:07	9h 55m	17:03	34m	17:37	35m	18:13	35m	18:49	14h 05m	10h 34m				Sa, 2. Nov
So, 3. Nov		18:47–05:24*	10h 37m	AN <sub>+</sub> bis AN <sub>-</sub>		09:24	17:34	05:23	35m	05:59	35m	06:34	34m	07:09	9h 52m	17:02	34m	17:36	35m	18:12	35m	18:47	14h 08m	10h 37m				So, 3. Nov
Mo, 4. Nov		18:46–05:26*	10h 39m	AN <sub>+</sub> bis AN <sub>-</sub>		10:33	18:11	05:24	35m	06:00	35m	06:36	34m	07:10	9h 49m	17:00	34m	17:35	35m	18:10	35m	18:46	14h 11m	10h 39m				Mo, 4. Nov
Di, 5. Nov		19:01–05:27*	10h 26m	M <sub>\</sub> bis AN <sub>-</sub>		11:36	19:01	05:26	35m	06:01	35m	06:37	34m	07:12	9h 46m	16:59	34m	17:33	35m	18:09	35m	18:45	14h 14m	10h 42m				Di, 5. Nov
Mi, 6. Nov		20:03–05:28*	9h 25m	M <sub>\</sub> bis AN <sub>-</sub>		12:29	20:03	05:27	35m	06:03	35m	06:39	34m	07:13	9h 44m	16:57	34m	17:32	35m	18:08	35m	18:44	14h 17m	10h 44m				Mi, 6. Nov
Do, 7. Nov		21:15–05:30*	8h 14m	M <sub>\</sub> bis AN <sub>-</sub>		13:11	21:15	05:28	35m	06:04	35m	06:40	34m	07:15	9h 41m	16:56	34m	17:31	35m	18:07	35m	18:42	14h 20m	10h 47m				Do, 7. Nov
Fr, 8. Nov		22:34–05:31*	6h 57m	M <sub>\</sub> bis AN <sub>-</sub>		13:43	22:34	05:30	35m	06:05	36m	06:41	34m	07:16	9h 38m	16:55	34m	17:29	35m	18:05	35m	18:41	14h 23m	10h 49m				Fr, 8. Nov
Sa, 9. Nov		23:54–05:32*	5h 37m	M <sub>\</sub> bis AN <sub>-</sub>	◐	14:08	23:54	05:31	35m	06:07	36m	06:43	34m	07:18	9h 35m	16:53	34m	17:28	36m	18:04	35m	18:40	14h 26m	10h 51m				Sa, 9. Nov
So, 10. Nov		01:15*–05:33*	4h 18m	M <sub>\</sub> bis AN <sub>-</sub>		14:28	—:—	05:32	35m	06:08	36m	06:44	35m	07:19	9h 32m	16:52	35m	17:27	36m	18:03	35m	18:39	14h 28m	10h 54m				So, 10. Nov
Mo, 11. Nov		02:37*–05:35*	2h 57m	M <sub>\</sub> bis AN <sub>-</sub>		14:46	01:15	05:33	36m	06:09	36m	06:46	35m	07:21	9h 29m	16:51	35m	17:26	36m	18:02	35m	18:38	14h 31m	10h 56m				Mo, 11. Nov
Di, 12. Nov		04:00*–05:36*	1h 35m	M <sub>\</sub> bis AN <sub>-</sub>		15:03	02:37	05:35	36m	06:11	36m	06:47	35m	07:22	9h 27m	16:50	35m	17:25	36m	18:01	36m	18:37	14h 34m	10h 58m				Di, 12. Nov
Mi, 13. Nov		05:26*–05:37*	11m	M <sub>\</sub> bis AN <sub>-</sub>		15:22	04:00	05:36	36m	06:12	36m	06:48	35m	07:24	9h 24m	16:48	35m	17:24	36m	18:00	36m	18:36	14h 36m	11h 01m				Mi, 13. Nov
Do, 14. Nov		—:—:—:—	–	Mond stört		15:42	05:26	05:37	36m	06:13	36m	06:50	35m	07:25	9h 21m	16:47	35m	17:23	36m	17:59	36m	18:35	14h 39m	11h 03m				Do, 14. Nov
Fr, 15. Nov		—:—:—:—	–	Mond stört	◑	16:08	06:54	05:38	36m	06:15	36m	06:51	35m	07:27	9h 19m	16:46	35m	17:22	36m	17:58	36m	18:34	14h 42m	11h 05m				Fr, 15. Nov
Sa, 16. Nov		—:—:—:—	–	Mond stört		16:43	08:23	05:40	36m	06:16	36m	06:53	35m	07:28	9h 16m	16:45	35m	17:21	36m	17:57	36m	18:33	14h 44m	11h 07m				Sa, 16. Nov
So, 17. Nov		—:~:~:~:~	–	Mond stört		17:29	09:47	05:41	36m	06:17	36m	06:54	35m	07:30	9h 14m	16:44	35m	17:20	36m	17:56	36m	18:33	14h 47m	11h 09m				So, 17. Nov
Mo, 18. Nov		—:~:~:~:~	–	Mond stört		18:28	10:58	05:42	36m	06:18	36m	06:55	35m	07:31	9h 11m	16:43	35m	17:19	36m	17:56	36m	18:32	14h 49m	11h 11m				Mo, 18. Nov
Di, 19. Nov		18:31–19:38	1h 07m	AN <sub>+</sub> bis M <sub>J</sub>		19:38	11:52	05:43	36m	06:20	36m	06:57	35m	07:33	9h 09m	16:42	35m	17:18	36m	17:55	36m	18:31	14h 51m	11h 13m				Di, 19. Nov
Mi, 20. Nov		18:30–20:53	2h 22m	AN <sub>+</sub> bis M <sub>J</sub>		20:53	12:31	05:45	36m	06:21	36m	06:58	36m	07:34	9h 07m	16:41	36m	17:17	36m	17:54	36m	18:30	14h 54m	11h 15m				Mi, 20. Nov
Do, 21. Nov		18:30–22:08	3h 38m	AN <sub>+</sub> bis M <sub>J</sub>		22:08	13:00	05:46	36m	06:22	36m	06:59	36m	07:35	9h 04m	16:40	36m	17:16	36m	17:53	36m	18:30	14h 56m	11h 17m				Do, 21. Nov
Fr, 22. Nov		18:29–23:19	4h 50m	AN <sub>+</sub> bis M <sub>J</sub>		23:19	13:21	05:47	36m	06:23	37m	07:00	36m	07:37	9h 02m	16:39	36m	17:16	37m	17:53	36m	18:29	14h 58m	11h 18m				Fr, 22. Nov
Sa, 23. Nov		18:28–00:28*	5h 59m	AN <sub>+</sub> bis M <sub>J</sub>	◑	—:—	13:38	05:48	36m	06:25	37m	07:02	36m	07:38	9h 00m	16:38	36m	17:15	37m	17:52	36m	18:28	15h 01m	11h 20m				Sa, 23. Nov
So, 24. Nov		18:28–01:34*	7h 05m	AN <sub>+</sub> bis M <sub>J</sub>		00:28	13:52	05:49	36m	06:26	37m	07:03	36m	07:39	8h 58m	16:38	36m	17:14	37m	17:51	36m	18:28	15h 03m	11h 22m				So, 24. Nov
Mo, 25. Nov		18:27–02:39*	8h 11m	AN <sub>+</sub> bis M <sub>J</sub>		01:34	14:06	05:50	36m	06:27	37m	07:04	36m	07:41	8h 56m	16:37	36m	17:14	37m	17:51	36m	18:27	15h 05m	11h 23m				Mo, 25. Nov
Di, 26. Nov		18:27–03:44*	9h 17m	AN <sub>+</sub> bis M <sub>J</sub>		02:39	14:19	05:51	36m	06:28	37m	07:05	36m	07:42	8h 54m	16:36	36m	17:13	37m	17:50	36m	18:27	15h 07m	11h 25m				Di, 26. Nov
Mi, 27. Nov		18:27–04:51*	10h 24m	AN <sub>+</sub> bis M <sub>J</sub>		03:44	14:33	05:53	36m	06:29	37m	07:07	36m	07:43	8h 52m	16:36	36m	17:12	37m	17:50	36m	18:27	15h 09m	11h 27m				Mi, 27. Nov
Do, 28. Nov		18:26–05:55*	11h 28m	AN <sub>+</sub> bis AN <sub>-</sub>		04:51	14:50	05:54	36m	06:30	37m	07:08	36m	07:45	8h 50m	16:35	36m	17:12	37m	17:49	36m	18:26	15h 11m	11h 28m				Do, 28. Nov
Fr, 29. Nov		18:26–05:56*	11h 29m	AN <sub>+</sub> bis AN <sub>-</sub>		06:01	15:10	05:55	36m	06:32	37m	07:09	36m	07:46	8h 48m	16:34	36m	17:11	37m	17:49	36m	18:26	15h 12m	11h 29m				Fr, 29. Nov
Sa, 30. Nov		18:25–05:57*	11h 31m	AN <sub>+</sub> bis AN <sub>-</sub>		07:12	15:36	05:56	36m	06:33	37m	07:10	37m	07:47	8h 46m	16:34	37m	17:11	37m	17:49	36m	18:25	15h 14m	11h 31m				Sa, 30. Nov
So, 1. Dez		18:25–05:58*	11h 32m	AN <sub>+</sub> bis AN <sub>-</sub>	●	08:22	16:10	05:57	36m	06:34	37m	07:11	37m	07:49	8h 44m	16:33	37m	17:11	37m	17:48	36m	18:25	15h 16m	11h 32m				So, 1. Dez
Mo, 2. Dez		18:25–05:59*	11h 33m	AN <sub>+</sub> bis AN <sub>-</sub>		09:28	16:57	05:58	36m	06:35	37m	07:13	37m	07:50	8h 43m	16:33	37m	17:10	37m	17:48	36m	18:25	15h 17m	11h 33m				Mo, 2. Dez
Di, 3. Dez		18:25–06:00*	11h 34m	AN <sub>+</sub> bis AN <sub>-</sub>		10:25	17:56	05:59	37m	06:36	37m	07:14	37m	07:51	8h 41m	16:33	37m	17:10	37m	17:48	36m	18:25	15h 19m	11h 34m				Di, 3. Dez
Mi, 4. Dez		19:07–06:01*	10h 54m	M <sub>\</sub> bis AN <sub>-</sub>		11:10	19:07	06:00	37m	06:37	37m	07:15	37m	07:52	8h 40m	16:32	37m	17:10	37m	17:48	37m	18:25	15h 20m	11h 36m				Mi, 4. Dez
Do, 5. Dez		20:23–06:02*	9h 38m	M <sub>\</sub> bis AN <sub>-</sub>		11:45	20:23	06:01	37m	06:38	37m	07:16	37m	07:53	8h 38m	16:32	37m	17:10	37m	17:47	37m	18:25	15h 22m	11h 37m				Do, 5. Dez
Fr, 6. Dez		21:43–06:03*	8h 19m	M <sub>\</sub> bis AN <sub>-</sub>		12:12	21:43	06:02	37m	06:39	37m	07:17	37m	07:54	8h 37m	16:32	37m	17:09	37m	17:47	37m	18:24	15h 23m	11h 38m				Fr, 6. Dez
Sa, 7. Dez		23:02–06:03*	7h 01m	M <sub>\</sub> bis AN <sub>-</sub>		12:33	23:02	06:03	37m	06:40	38m	07:18	37m	07:55	8h 36m	16:32	37m	17:09	37m	17:47	37m	18:24	15h 24m	11h 39m				Sa, 7. Dez
So, 8. Dez		00:21*–06:04*	5h 43m	M<																								



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
2024/25	Zeitzone	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung					Sonne			Ende der Abenddämmerung						Nacht	Astr. N.	Naut. dunkel und kein Mond			2024/25	
		$\Delta t$			Ph.	$\uparrow$	$\downarrow$	Astr.	$\Delta t$	Naut.	$\Delta t$	Bürg.	$\Delta t$	$\uparrow$	$\Delta t$	$\downarrow$	$\Delta t$	Bürg.	$\Delta t$	Naut.	$\Delta t$	Astr.	$\Delta t$	$\Delta t$		$\Delta t$		
Mo, 16. Dez		—:—:—:—:—	—	Mond stört		17:15	09:37	06:10	37m	06:47	38m	07:25	38m	08:03	8h 28m	16:32	38m	17:10	38m	17:49	37m	18:26	15h 31m	11h 44m				Mo, 16. Dez
Di, 17. Dez		18:26–18:29	3m	AN <sub>+</sub> bis M <sub>7</sub>		18:29	10:24	06:10	37m	06:48	38m	07:26	38m	08:04	8h 28m	16:33	38m	17:11	38m	17:49	37m	18:26	15h 32m	11h 44m				Di, 17. Dez
Mi, 18. Dez		18:27–19:46	1h 19m	AN <sub>+</sub> bis M <sub>7</sub>		19:46	10:58	06:11	37m	06:48	38m	07:27	38m	08:05	8h 28m	16:33	38m	17:11	38m	17:49	37m	18:27	15h 32m	11h 44m				Mi, 18. Dez
Do, 19. Dez		18:27–21:01	2h 33m	AN <sub>+</sub> bis M <sub>7</sub>		21:01	11:22	06:11	37m	06:49	38m	07:27	38m	08:05	8h 28m	16:33	38m	17:11	38m	17:50	37m	18:27	15h 32m	11h 44m				Do, 19. Dez
Fr, 20. Dez		18:28–22:12	3h 44m	AN <sub>+</sub> bis M <sub>7</sub>		22:12	11:41	06:12	37m	06:49	38m	07:28	38m	08:06	8h 27m	16:34	38m	17:12	38m	17:50	37m	18:28	15h 32m	11h 45m				Fr, 20. Dez
Sa, 21. Dez		18:28–23:20	4h 51m	AN <sub>+</sub> bis M <sub>7</sub>		23:20	11:57	06:13	37m	06:50	38m	07:28	38m	08:06	8h 27m	16:34	38m	17:12	38m	17:51	37m	18:28	15h 32m	11h 45m				Sa, 21. Dez
So, 22. Dez		18:29–00:26*	5h 57m	AN <sub>+</sub> bis M <sub>7</sub>	☉	—:—	12:11	06:13	37m	06:50	38m	07:29	38m	08:07	8h 27m	16:35	38m	17:13	38m	17:51	37m	18:29	15h 32m	11h 44m				So, 22. Dez
Mo, 23. Dez		18:29–01:31*	7h 01m	AN <sub>+</sub> bis M <sub>7</sub>		00:26	12:24	06:13	37m	06:51	38m	07:29	38m	08:07	8h 28m	16:35	38m	17:13	38m	17:52	37m	18:29	15h 32m	11h 44m				Mo, 23. Dez
Di, 24. Dez		18:30–02:37*	8h 07m	AN <sub>+</sub> bis M <sub>7</sub>		01:31	12:38	06:14	37m	06:51	38m	07:30	38m	08:08	8h 28m	16:36	38m	17:14	38m	17:52	37m	18:30	15h 32m	11h 44m				Di, 24. Dez
Mi, 25. Dez		18:30–03:45*	9h 15m	AN <sub>+</sub> bis M <sub>7</sub>		02:37	12:54	06:14	37m	06:52	38m	07:30	38m	08:08	8h 28m	16:37	38m	17:15	38m	17:53	37m	18:30	15h 31m	11h 44m				Mi, 25. Dez
Do, 26. Dez		18:31–04:56*	10h 24m	AN <sub>+</sub> bis M <sub>7</sub>		03:45	13:12	06:15	37m	06:52	38m	07:30	38m	08:08	8h 29m	16:37	38m	17:15	38m	17:54	37m	18:31	15h 31m	11h 43m				Do, 26. Dez
Fr, 27. Dez		18:32–06:07*	11h 35m	AN <sub>+</sub> bis M <sub>7</sub>		04:56	13:36	06:15	37m	06:52	38m	07:31	37m	08:09	8h 29m	16:38	37m	17:16	38m	17:54	37m	18:32	15h 30m	11h 43m				Fr, 27. Dez
Sa, 28. Dez		18:32–06:15*	11h 43m	AN <sub>+</sub> bis AN <sub>–</sub>		06:07	14:07	06:15	37m	06:53	38m	07:31	37m	08:09	8h 30m	16:39	37m	17:17	38m	17:55	37m	18:32	15h 30m	11h 43m				Sa, 28. Dez
So, 29. Dez		18:33–06:16*	11h 42m	AN <sub>+</sub> bis AN <sub>–</sub>		07:15	14:49	06:15	37m	06:53	38m	07:31	37m	08:09	8h 30m	16:40	37m	17:18	38m	17:56	37m	18:33	15h 29m	11h 42m				So, 29. Dez
Mo, 30. Dez		18:34–06:16*	11h 41m	AN <sub>+</sub> bis AN <sub>–</sub>	●	08:17	15:45	06:16	37m	06:53	38m	07:31	37m	08:09	8h 31m	16:41	37m	17:18	38m	17:57	37m	18:34	15h 28m	11h 41m				Mo, 30. Dez
Di, 31. Dez		18:35–06:16*	11h 41m	AN <sub>+</sub> bis AN <sub>–</sub>		09:07	16:53	06:16	37m	06:53	38m	07:31	37m	08:09	8h 32m	16:41	37m	17:19	38m	17:57	37m	18:35	15h 27m	11h 41m				Di, 31. Dez
Mi, 1. Jan		18:36–06:16*	11h 40m	AN <sub>+</sub> bis AN <sub>–</sub>		09:46	18:10	06:16	37m	06:53	38m	07:31	37m	08:09	8h 33m	16:42	37m	17:20	38m	17:58	37m	18:36	15h 26m	11h 40m				Mi, 1. Jan
Do, 2. Jan		19:31–06:16*	10h 45m	M <sub>\</sub> bis AN <sub>–</sub>		10:15	19:31	06:16	37m	06:53	38m	07:31	37m	08:09	8h 34m	16:43	37m	17:21	38m	17:59	37m	18:36	15h 25m	11h 39m				Do, 2. Jan
Fr, 3. Jan		20:51–06:16*	9h 24m	M <sub>\</sub> bis AN <sub>–</sub>		10:38	20:51	06:16	37m	06:53	38m	07:31	37m	08:09	8h 35m	16:44	37m	17:22	38m	18:00	37m	18:37	15h 24m	11h 38m				Fr, 3. Jan
Sa, 4. Jan		22:11–06:16*	8h 05m	M <sub>\</sub> bis AN <sub>–</sub>		10:57	22:11	06:16	37m	06:53	37m	07:31	37m	08:09	8h 36m	16:45	37m	17:23	37m	18:01	37m	18:38	15h 23m	11h 37m				Sa, 4. Jan
So, 5. Jan		23:30–06:16*	6h 46m	M <sub>\</sub> bis AN <sub>–</sub>		11:14	23:30	06:16	37m	06:53	37m	07:31	37m	08:09	8h 37m	16:47	37m	17:24	37m	18:02	37m	18:39	15h 21m	11h 36m				So, 5. Jan
Mo, 6. Jan		00:49*–06:16*	5h 26m	M <sub>\</sub> bis AN <sub>–</sub>		11:31	—:—	06:16	37m	06:53	37m	07:31	37m	08:08	8h 39m	16:48	37m	17:25	37m	18:03	37m	18:40	15h 20m	11h 35m				Mo, 6. Jan
Di, 7. Jan		02:10*–06:16*	4h 05m	M <sub>\</sub> bis AN <sub>–</sub>	☾	11:49	00:49	06:16	37m	06:53	37m	07:31	37m	08:08	8h 40m	16:49	37m	17:26	37m	18:04	37m	18:41	15h 19m	11h 34m				Di, 7. Jan
Mi, 8. Jan		03:33*–06:16*	2h 42m	M <sub>\</sub> bis AN <sub>–</sub>		12:09	02:10	06:16	36m	06:53	37m	07:31	37m	08:08	8h 42m	16:50	37m	17:27	37m	18:05	37m	18:42	15h 17m	11h 33m				Mi, 8. Jan
Do, 9. Jan		04:57*–06:15*	1h 18m	M <sub>\</sub> bis AN <sub>–</sub>		12:35	03:33	06:16	36m	06:53	37m	07:30	37m	08:07	8h 43m	16:51	37m	17:28	37m	18:06	36m	18:43	15h 15m	11h 32m				Do, 9. Jan
Fr, 10. Jan		—:—:—:—:—	—	Mond stört		13:09	04:57	06:15	36m	06:52	37m	07:30	37m	08:07	8h 45m	16:52	37m	17:30	37m	18:07	36m	18:44	15h 14m	11h 30m				Fr, 10. Jan
Sa, 11. Jan		—:—:—:—:—	—	Mond stört		13:55	06:16	06:15	36m	06:52	37m	07:30	37m	08:07	8h 47m	16:54	37m	17:31	37m	18:08	36m	18:45	15h 12m	11h 29m				Sa, 11. Jan
So, 12. Jan		—:~—:~:~:~:~	~	Mond stört		14:55	07:23	06:15	36m	06:52	37m	07:29	36m	08:06	8h 48m	16:55	36m	17:32	37m	18:09	36m	18:46	15h 10m	11h 28m				So, 12. Jan
Mo, 13. Jan		~:~:~:~:~:~	~	Mond stört	○	16:06	08:16	06:14	36m	06:51	37m	07:29	36m	08:06	8h 50m	16:56	36m	17:33	37m	18:11	36m	18:47	15h 08m	11h 26m				Mo, 13. Jan
Di, 14. Jan		~:~:~:~:~:~	~	Mond stört		17:23	08:54	06:14	36m	06:51	37m	07:28	36m	08:05	8h 52m	16:58	36m	17:34	37m	18:12	36m	18:49	15h 06m	11h 25m				Di, 14. Jan
Mi, 15. Jan		~:~:~:~:~:~	~	Mond stört		18:39	09:23	06:14	36m	06:50	37m	07:28	36m	08:04	8h 54m	16:59	36m	17:36	37m	18:13	36m	18:50	15h 04m	11h 23m				Mi, 15. Jan
Do, 16. Jan		18:51–19:53	1h 02m	AN <sub>+</sub> bis M <sub>7</sub>		19:53	09:44	06:13	36m	06:50	37m	07:27	36m	08:04	8h 56m	17:00	36m	17:37	37m	18:14	36m	18:51	15h 02m	11h 21m				Do, 16. Jan
Fr, 17. Jan		18:52–21:03	2h 11m	AN <sub>+</sub> bis M <sub>7</sub>		21:03	10:01	06:13	36m	06:49	37m	07:26	36m	08:03	8h 58m	17:02	36m	17:38	37m	18:15	36m	18:52	15h 00m	11h 20m				Fr, 17. Jan
Sa, 18. Jan		18:53–22:10	3h 17m	AN <sub>+</sub> bis M <sub>7</sub>		22:10	10:16	06:12	36m	06:49	37m	07:26	36m	08:02	9h 00m	17:03	36m	17:39	37m	18:17	36m	18:53	14h 58m	11h 18m				Sa, 18. Jan
So, 19. Jan		18:54–23:16	4h 22m	AN <sub>+</sub> bis M <sub>7</sub>		23:16	10:29	06:12	36m	06:48	37m	07:25	36m	08:01	9h 03m	17:05	36m	17:41	37m	18:18	36m	18:54	14h 55m	11h 16m				So, 19. Jan
Mo, 20. Jan		18:56–00:22*	5h 26m	AN <sub>+</sub> bis M <sub>7</sub>		—:—	10:43	06:11	36m	06:47	36m	07:24	36m	08:01	9h 05m	17:06	36m	17:42	36m	18:19	36m	18:56	14h 53m	11h 14m				Mo, 20. Jan
Di, 21. Jan		18:57–01:30*	6h 32m	AN <sub>+</sub> bis M <sub>7</sub>	☽	00:22	10:58	06:10	36m	06:47	36m	07:24	36m	08:00	9h 07m	17:07	36m	17:44	36m	18:20	36m	18:57	14h 51m	11h 12m				Di, 21. Jan
Mi, 22. Jan		18:58–02:39*	7h 40m	AN <sub>+</sub> bis M <sub>7</sub>		01:30	11:15	06:10	36m	06:46	36m	07:23	35m	07:59	9h 10m	17:09	35m	17:45	36m	18:22	36m	18:58	14h 48m	11h 10m				Mi, 22. Jan
Do, 23. Jan		18:59–03:49*	8h 49m	AN <sub>+</sub> bis M <sub>7</sub>		02:39	11:36	06:09	36m	06:45	36m	07:22	35m	07:58	9h 12m	17:10	35m	17:46	36m	18:23	36m	18:59	14h 46m	11h 08m				Do, 23. Jan
Fr, 24. Jan		19:01–04:58*	9h 57m	AN <sub>+</sub> bis M <sub>7</sub>		03:49	12:03	06:08	36m	06:44	36m	07:21	35m	07:57	9h 15m	17:12	35m	17:48	36m	18:24	36m	19:01	14h 43m	11h 06m				Fr, 24. Jan
Sa, 25. Jan		19:02–06:03*	11h 01m	AN <sub>+</sub> bis M <sub>7</sub>		04:58	12:40	06:07	36m	06:44	36m	07:20	35m	07:56	9h 17m	17:13	35m	17:49	36m	18:26	36m	19:02	14h 41m	11h 04m				Sa, 25. Jan
So, 26. Jan		19:03–06:06*	11h 02m	AN <sub>+</sub> bis AN <sub>–</sub>		06:03	13:29	06:07	36m	06:43	36m	07:19	35m	07:55	9h 20m	17:15	35m	17:50	36m	18:27	36m	19:03	14h 38m	11h 02m				So, 26. Jan
Mo, 27. Jan		19:																										