

# Mond- und Dämmerungstabelle 2023

## für die visuelle Deep-Sky-Beobachtung

Arbon 47.5167° N 9.4333° 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 angegebenen 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		03:57*–06:16*	2h 18m	M <sub>\</sub> bis AN <sub>\</sub>		13:03	02:45	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				So, 1. Jan
Mo, 2. Jan		05:08*–06:16*	1h 07m	M <sub>\</sub> bis AN <sub>\</sub>		13:24	03:57	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				Mo, 2. Jan
Di, 3. Jan		—:—:—:—:—	–	Mond stört		13:51	05:08	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				Di, 3. Jan
Mi, 4. Jan		—:—:—:—:—	–	Mond stört		14:24	06:17	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				Mi, 4. Jan
Do, 5. Jan		—:—:—:—:—	–	Mond stört		15:05	07:20	06:16	37m	06:53	38m	07:31	37m	08:09	8h 36m	16:45	37m	17:23	38m	18:01	37m	18:38	15h 23m	11h 37m				Do, 5. Jan
Fr, 6. Jan		—:~:~:~:~:~	–	Mond stört		15:57	08:15	06:16	37m	06:53	37m	07:31	37m	08:09	8h 37m	16:46	37m	17:24	37m	18:02	37m	18:39	15h 21m	11h 36m				Fr, 6. Jan
Sa, 7. Jan		—:~:~:~:~:~	–	Mond stört	○	16:56	09:00	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				Sa, 7. Jan
So, 8. Jan		—:~:~:~:~:~	–	Mond stört		18:01	09:35	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				So, 8. Jan
Mo, 9. Jan		18:42–19:08	26m	AN <sub>+</sub> bis M <sub>7</sub>		19:08	10:03	06:16	37m	06:53	37m	07:30	37m	08:08	8h 42m	16:50	37m	17:27	37m	18:05	37m	18:42	15h 17m	11h 33m				Mo, 9. Jan
Di, 10. Jan		18:43–20:16	1h 32m	AN <sub>+</sub> bis M <sub>7</sub>		20:16	10:25	06:15	36m	06:52	37m	07:30	37m	08:07	8h 43m	16:51	37m	17:28	37m	18:06	37m	18:43	15h 15m	11h 31m				Di, 10. Jan
Mi, 11. Jan		18:44–21:23	2h 38m	AN <sub>+</sub> bis M <sub>7</sub>		21:23	10:43	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				Mi, 11. Jan
Do, 12. Jan		18:45–22:30	3h 44m	AN <sub>+</sub> bis M <sub>7</sub>		22:30	11:00	06:15	36m	06:52	37m	07:29	37m	08:06	8h 47m	16:54	37m	17:31	37m	18:08	36m	18:45	15h 12m	11h 29m				Do, 12. Jan
Fr, 13. Jan		18:46–23:38	4h 51m	AN <sub>+</sub> bis M <sub>7</sub>		23:38	11:15	06:15	36m	06:51	37m	07:29	36m	08:06	8h 49m	16:55	36m	17:32	37m	18:10	36m	18:46	15h 10m	11h 27m				Fr, 13. Jan
Sa, 14. Jan		18:48–00:48*	6h 00m	AN <sub>+</sub> bis M <sub>7</sub>		—:—	11:30	06:14	36m	06:51	37m	07:29	36m	08:05	8h 50m	16:56	36m	17:33	37m	18:11	36m	18:48	15h 08m	11h 26m				Sa, 14. Jan
So, 15. Jan		18:49–02:02*	7h 13m	AN <sub>+</sub> bis M <sub>7</sub>	●	00:48	11:47	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 24m				So, 15. Jan
Mo, 16. Jan		18:50–03:20*	8h 29m	AN <sub>+</sub> bis M <sub>7</sub>		02:02	12:07	06:13	36m	06:50	37m	07:27	36m	08:04	8h 54m	16:59	36m	17:36	37m	18:13	36m	18:50	15h 04m	11h 23m				Mo, 16. Jan
Di, 17. Jan		18:51–04:41*	9h 50m	AN <sub>+</sub> bis M <sub>7</sub>		03:20	12:32	06:13	36m	06:50	37m	07:27	36m	08:03	8h 57m	17:00	36m	17:37	37m	18:14	36m	18:51	15h 02m	11h 21m				Di, 17. Jan
Mi, 18. Jan		18:52–06:02*	11h 09m	AN <sub>+</sub> bis M <sub>7</sub>		04:41	13:06	06:12	36m	06:49	37m	07:26	36m	08:03	8h 59m	17:02	36m	17:38	37m	18:16	36m	18:52	15h 00m	11h 19m				Mi, 18. Jan
Do, 19. Jan		18:53–06:11*	11h 17m	AN <sub>+</sub> bis AN <sub>\</sub>		06:02	13:53	06:12	36m	06:48	37m	07:26	36m	08:02	9h 01m	17:03	36m	17:40	37m	18:17	36m	18:53	14h 57m	11h 17m				Do, 19. Jan
Fr, 20. Jan		18:55–06:11*	11h 15m	AN <sub>+</sub> bis AN <sub>\</sub>		07:15	14:58	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 15m				Fr, 20. Jan
Sa, 21. Jan		18:56–06:10*	11h 14m	AN <sub>+</sub> bis AN <sub>\</sub>	●	08:13	16:18	06:11	36m	06:47	36m	07:24	36m	08:00	9h 05m	17:06	36m	17:42	37m	18:19	36m	18:56	14h 53m	11h 14m				Sa, 21. Jan
So, 22. Jan		18:57–06:09*	11h 12m	AN <sub>+</sub> bis AN <sub>\</sub>		08:57	17:46	06:10	36m	06:46	36m	07:23	36m	07:59	9h 08m	17:08	36m	17:44	36m	18:21	36m	18:57	14h 50m	11h 12m				So, 22. Jan
Mo, 23. Jan		19:15–06:08*	10h 53m	M <sub>\</sub> bis AN <sub>\</sub>		09:29	19:15	06:09	36m	06:46	36m	07:22	35m	07:58	9h 10m	17:09	35m	17:45	36m	18:22	36m	18:58	14h 48m	11h 10m				Mo, 23. Jan
Di, 24. Jan		20:40–06:08*	9h 27m	M <sub>\</sub> bis AN <sub>\</sub>		09:53	20:40	06:08	36m	06:45	36m	07:22	35m	07:57	9h 13m	17:11	35m	17:46	36m	18:23	36m	19:00	14h 45m	11h 08m				Di, 24. Jan
Mi, 25. Jan		22:01–06:07*	8h 05m	M <sub>\</sub> bis AN <sub>\</sub>		10:14	22:01	06:08	36m	06:44	36m	07:21	35m	07:56	9h 15m	17:12	35m	17:48	36m	18:25	36m	19:01	14h 43m	11h 05m				Mi, 25. Jan
Do, 26. Jan		23:19–06:06*	6h 47m	M <sub>\</sub> bis AN <sub>\</sub>		10:31	23:19	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 03m				Do, 26. Jan
Fr, 27. Jan		00:34*–06:05*	5h 31m	M <sub>\</sub> bis AN <sub>\</sub>		10:49	—:—	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				Fr, 27. Jan
Sa, 28. Jan		01:47*–06:04*	4h 16m	M <sub>\</sub> bis AN <sub>\</sub>	●	11:07	00:34	06:05	36m	06:41	36m	07:18	35m	07:53	9h 23m	17:17	35m	17:52	36m	18:29	36m	19:05	14h 35m	10h 59m				Sa, 28. Jan
So, 29. Jan		02:59*–06:03*	3h 03m	M <sub>\</sub> bis AN <sub>\</sub>		11:28	01:47	06:04	36m	06:40	36m	07:17	35m	07:52	9h 26m	17:18	35m	17:54	36m	18:30	36m	19:06	14h 32m	10h 57m				So, 29. Jan
Mo, 30. Jan		04:09*–06:02*	1h 52m	M <sub>\</sub> bis AN <sub>\</sub>		11:53	02:59	06:03	36m	06:39	36m	07:16	35m	07:51	9h 29m	17:20	35m	17:55	36m	18:31	36m	19:07	14h 29m	10h 54m				Mo, 30. Jan
Di, 31. Jan		05:14*–06:01*	46m	M <sub>\</sub> bis AN <sub>\</sub>		12:24	04:09	06:02	36m	06:38	36m	07:14	35m	07:49	9h 31m	17:21	35m	17:56	36m	18:33	36m	19:09	14h 26m	10h 52m				Di, 31. Jan
Mi, 1. Feb		—:~:~:~:~:~	–	Mond stört		13:03	05:14	06:01	35m	06:37	36m	07:13	34m	07:48	9h 34m	17:23	35m	17:58	36m	18:34	36m	19:10	14h 24m	10h 49m				Mi, 1. Feb
Do, 2. Feb		—:~:~:~:~:~	–	Mond stört		13:51	06:12	06:00	35m	06:36	36m	07:12	34m	07:47	9h 37m	17:24	34m	17:59	36m	18:35	35m	19:11	14h 21m	10h 47m				Do, 2. Feb
Fr, 3. Feb		—:~:~:~:~:~	–	Mond stört		14:48	06:59	05:59	35m	06:35	35m	07:11	34m	07:46	9h 40m	17:26	34m	18:01	36m	18:37	35m	19:13	14h 18m	10h 45m				Fr, 3. Feb
Sa, 4. Feb		—:~:~:~:~:~	–	Mond stört		15:52	07:37	05:58	35m	06:34	35m	07:10	34m	07:44	9h 43m	17:28	34m	18:02	35m	18:38	35m	19:14	14h 15m	10h 42m				Sa, 4. Feb
So, 5. Feb		—:~:~:~:~:~	–	Mond stört	○	16:59	08:07	05:57	35m	06:32	35m	07:08	34m	07:43	9h 46m	17:29	34m	18:04	35m	18:40	35m	19:15	14h 12m	10h 39m				So, 5. Feb
Mo, 6. Feb		—:~:~:~:~:~	–	Mond stört		18:07	08:30	05:55	35m	06:31	35m	07:07	34m	07:41	9h 49m	17:31	34m	18:05	35m	18:41	35m	19:17	14h 09m	10h 37m				Mo, 6. Feb
Di, 7. Feb		—:~:~:~:~:~	–	Mond stört		19:15	08:50	05:54	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 34m				Di, 7. Feb
Mi, 8. Feb		19:20–20:22	1h 02m	AN <sub>+</sub> bis M <sub>7</sub>		20:22	09:06	05:53	35m	06:29	35m	07:04	34m	07:39	9h 55m	17:34	34m	18:08	35m	18:44	35m	19:20	14h 03m	10h 31m				Mi, 8. Feb
Do, 9. Feb		19:21–21:29	2h 08m	AN <sub>+</sub> bis M <sub>7</sub>		21:29	09:21	05:52	35m	06:27	35m	07:03	34m	07:37	9h 58m	17:35	34m	18:10	35m	18:45	35m	19:21	14h 00m	10h 29m				Do, 9. Feb
Fr, 10. Feb		19:22–22:38	3h 15m	AN <sub>+</sub> bis M <sub>7</sub>		22:38	09:36	05:50	35m	06:26	35m	07:01	34m	07:36	10h 01m	17:37	34m	18:11	35m	18:47	35m	19:22	13h 56m	10h 26m				Fr, 10. Feb
Sa, 11. Feb		19:24–23:49	4h 25m	AN <sub>+</sub> bis M <sub>7</sub>		23:49	09:52	05:49	35m	06:24	35m	07:00	33m	07:34	10h 04m	17:39	34m	18:13	35m	18:48	35m	19:24	13h 53m	10h 23m				Sa, 11. Feb
So, 12. Feb		19:25–01:04*	5h 38m	AN <sub>+</sub> bis M <sub>7</sub>		—:—	10:10	05:47	35m	06:23	35m	06:58	33m	07:32	10h 07m	17												

Table with 29 columns (1-29) and multiple rows of astronomical data. Columns include dates (1-29), time zones (Zeitzone), astronomical darkness (Astr. dunkel und kein Mond), moon phases (Mond), dawn (Beginn der Morgendämmerung), sunrise (Sonne), and dusk (Ende der Abenddämmerung). Rows list dates from Feb 20 to Apr 10.







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

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

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



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