Mond- und Dämmerungstabelle 2024

für die visuelle Deep-Sky-Beobachtung

Brig-Glis 46.3161° N 7.9873° E

Berechnung: pyEphem
Textsatz: LaTeX

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 $-18°$) 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_+ (*Einbruch der astronomischen Nacht = Ende der astr. Abenddämmerung*), $M_\searrow$ (*Monduntergang*), AN_- (*Ende der astronomischen Nacht = Beginn der astr. Morgendämmerung*), $M_\nearrow$ (*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 = $-18°_\nearrow$).
Spalte 10 Dauer der astr. Morgendämmerung.
Spalte 11 Beginn der naut. Morgendämmerung (Sonnenhöhe = $-12°_\nearrow$).
Spalte 12 Dauer der naut. Morgendämmerung.
Spalte 13 Beginn der bürg. Morgendämmerung (Sonnenhöhe = $-6°_\nearrow$).
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 = $-6°_\searrow$).
Spalte 20 Dauer der naut. Abenddämmerung.
Spalte 21 Ende der naut. Abenddämmerung (Sonnenhöhe = $-12°_\searrow$).
Spalte 22 Dauer der astr. Abenddämmerung.
Spalte 23 Ende der astr. Abenddämmerung (Sonnenhöhe = $-18°_\searrow$).
Spalte 24 Länge der Nacht.
Spalte 25 Länge der astr. Nacht.

Für Beobachter, die zu Zeiten der Mitternachtsdämmerung während der astr. Dämmerung beoachten möchten:
Spalte 26 Nutzbare Zeitspanne: Es ist »nautisch dunkel« (Sonne steht tiefer als $-12°$) und kein Mond stört.
Spalte 27 Dauer der in Spalte 26 angegebenen Zeitspanne.
Spalte 28 Ereignisse, die die nutzbare Zeitspanne begrenzen: ND_+ (*Beginn der »naut. Dunkelheit« = Ende der naut. Abenddämmerung*), $M_\searrow$ (*Monduntergang*), ND_- (*Ende der »naut. Dunkelheit« = Beginn der naut. Morgendämmerung*), $M_\nearrow$ (*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	Zeit-	Astr. dunkel und kein Mond			Mond			Beginn der Morgendämmerung						Sonne			Ende der Abenddämmerung						Nacht	Astr. N.	Naut. dunkel und kein Mond			2024
	zone		Δ*t*		Ph.	↗	↘	Astr.	Δ*t*	Naut.	Δ*t*	Bürg.	Δt	↗	Δ*t*	↘	Δ*t*	Bürg.	Δ*t*	Naut.	Δ*t*	Astr.	Δ*t*	Δ*t*		Δ*t*		
Mo, 1. Jan		18:42 – 22:25	*3h 42m*	AN$_+$ *bis* M↗		22:25	11:25	06:20	*36m*	06:56	*37m*	07:34	*36m*	08:10	*8h 41m*	16:52	*36m*	17:28	*37m*	18:06	*36m*	18:42	*15h 18m*	*11h 37m*				Mo, 1. Jan
Di, 2. Jan		18:43 – 23:29	*4h 46m*	AN$_+$ *bis* M↗		23:29	11:40	06:20	*36m*	06:56	*37m*	07:34	*36m*	08:10	*8h 42m*	16:53	*36m*	17:29	*37m*	18:06	*36m*	18:43	*15h 17m*	*11h 37m*				Di, 2. Jan
Mi, 3. Jan		18:44 – 00:34*	*5h 49m*	AN$_+$ *bis* M↗		—:—	11:55	06:20	*36m*	06:56	*37m*	07:34	*36m*	08:10	*8h 43m*	16:53	*36m*	17:30	*37m*	18:07	*36m*	18:44	*15h 16m*	*11h 36m*				Mi, 3. Jan
Do, 4. Jan		18:45 – 01:40*	*6h 55m*	AN$_+$ *bis* M↗	◑	00:34	12:10	06:20	*36m*	06:56	*37m*	07:34	*36m*	08:10	*8h 44m*	16:54	*36m*	17:31	*37m*	18:08	*36m*	18:45	*15h 15m*	*11h 35m*				Do, 4. Jan
Fr, 5. Jan		18:46 – 02:49*	*8h 03m*	AN$_+$ *bis* M↗		01:40	12:26	06:20	*36m*	06:56	*37m*	07:34	*36m*	08:10	*8h 45m*	16:56	*36m*	17:32	*37m*	18:09	*36m*	18:46	*15h 14m*	*11h 34m*				Fr, 5. Jan
Sa, 6. Jan		18:46 – 04:02*	*9h 15m*	AN$_+$ *bis* M↗		02:49	12:45	06:20	*36m*	06:56	*37m*	07:33	*36m*	08:10	*8h 46m*	16:57	*36m*	17:33	*37m*	18:10	*36m*	18:46	*15h 13m*	*11h 33m*				Sa, 6. Jan
So, 7. Jan		18:47 – 05:17*	*10h 29m*	AN$_+$ *bis* M↗		04:02	13:10	06:20	*36m*	06:56	*37m*	07:33	*36m*	08:10	*8h 47m*	16:58	*36m*	17:34	*37m*	18:11	*36m*	18:47	*15h 11m*	*11h 32m*				So, 7. Jan
Mo, 8. Jan		18:48 – 06:20*	*11h 31m*	AN$_+$ *bis* AN$_-$		05:17	13:43	06:20	*36m*	06:56	*36m*	07:33	*36m*	08:10	*8h 49m*	16:59	*36m*	17:35	*36m*	18:12	*36m*	18:48	*15h 10m*	*11h 31m*				Mo, 8. Jan
Di, 9. Jan		18:49 – 06:20*	*11h 30m*	AN$_+$ *bis* AN$_-$		06:32	14:27	06:20	*36m*	06:56	*36m*	07:33	*36m*	08:09	*8h 50m*	17:00	*36m*	17:36	*36m*	18:13	*36m*	18:49	*15h 08m*	*11h 30m*				Di, 9. Jan
Mi, 10. Jan		18:50 – 06:19*	*11h 29m*	AN$_+$ *bis* AN$_-$		07:41	15:27	06:20	*36m*	06:56	*36m*	07:33	*36m*	08:09	*8h 52m*	17:01	*36m*	17:37	*36m*	18:14	*36m*	18:50	*15h 07m*	*11h 29m*				Mi, 10. Jan
Do, 11. Jan		18:51 – 06:19*	*11h 27m*	AN$_+$ *bis* AN$_-$	●	08:39	16:42	06:19	*36m*	06:56	*36m*	07:32	*36m*	08:09	*8h 53m*	17:02	*36m*	17:38	*36m*	18:15	*36m*	18:51	*15h 05m*	*11h 27m*				Do, 11. Jan
Fr, 12. Jan		18:52 – 06:19*	*11h 26m*	AN$_+$ *bis* AN$_-$		09:22	18:06	06:19	*36m*	06:55	*36m*	07:32	*36m*	08:08	*8h 55m*	17:04	*36m*	17:40	*36m*	18:16	*36m*	18:52	*15h 04m*	*11h 26m*				Fr, 12. Jan
Sa, 13. Jan		19:33 – 06:19*	*10h 45m*	M↘ *bis* AN$_-$		09:55	19:33	06:19	*36m*	06:55	*36m*	07:32	*35m*	08:08	*8h 57m*	17:05	*35m*	17:41	*36m*	18:17	*36m*	18:54	*15h 02m*	*11h 25m*				Sa, 13. Jan
So, 14. Jan		20:58 – 06:18*	*9h 20m*	M↘ *bis* AN$_-$		10:21	20:58	06:19	*36m*	06:55	*36m*	07:31	*35m*	08:07	*8h 58m*	17:06	*35m*	17:42	*36m*	18:19	*36m*	18:55	*15h 00m*	*11h 23m*				So, 14. Jan
Mo, 15. Jan		22:19 – 06:18*	*7h 58m*	M↘ *bis* AN$_-$		10:42	22:19	06:18	*35m*	06:54	*36m*	07:31	*35m*	08:07	*9h 00m*	17:07	*35m*	17:43	*36m*	18:20	*35m*	18:56	*14h 58m*	*11h 22m*				Mo, 15. Jan
Di, 16. Jan		23:38 – 06:17*	*6h 39m*	M↘ *bis* AN$_-$		11:01	23:38	06:18	*35m*	06:54	*36m*	07:30	*35m*	08:06	*9h 02m*	17:09	*35m*	17:44	*36m*	18:21	*35m*	18:57	*14h 56m*	*11h 20m*				Di, 16. Jan
Mi, 17. Jan		00:56* – 06:17*	*5h 20m*	M↘ *bis* AN$_-$		11:19	—:—	06:17	*35m*	06:53	*36m*	07:30	*35m*	08:05	*9h 04m*	17:10	*35m*	17:46	*36m*	18:22	*35m*	18:58	*14h 54m*	*11h 18m*				Mi, 17. Jan
Do, 18. Jan		02:13* – 06:16*	*4h 02m*	M↘ *bis* AN$_-$	◐	11:39	00:56	06:17	*35m*	06:53	*36m*	07:29	*35m*	08:05	*9h 06m*	17:11	*35m*	17:47	*36m*	18:23	*35m*	18:59	*14h 52m*	*11h 17m*				Do, 18. Jan
Fr, 19. Jan		03:31* – 06:16*	*2h 45m*	M↘ *bis* AN$_-$		12:01	02:13	06:16	*35m*	06:52	*36m*	07:28	*35m*	08:04	*9h 08m*	17:13	*35m*	17:48	*36m*	18:24	*35m*	19:00	*14h 50m*	*11h 15m*				Fr, 19. Jan
Sa, 20. Jan		04:46* – 06:15*	*1h 29m*	M↘ *bis* AN$_-$		12:28	03:31	06:16	*35m*	06:52	*36m*	07:28	*35m*	08:03	*9h 10m*	17:14	*35m*	17:49	*36m*	18:26	*35m*	19:01	*14h 48m*	*11h 13m*				Sa, 20. Jan
So, 21. Jan		05:55* – 06:15*	*19m*	M↘ *bis* AN$_-$		13:02	04:45	06:15	*35m*	06:51	*36m*	07:27	*35m*	08:02	*9h 13m*	17:16	*35m*	17:51	*36m*	18:27	*35m*	19:03	*14h 45m*	*11h 12m*				So, 21. Jan
Mo, 22. Jan		—:——:—	–	Mond stört		13:46	05:55	06:15	*35m*	06:50	*36m*	07:26	*35m*	08:01	*9h 15m*	17:17	*35m*	17:52	*36m*	18:28	*35m*	19:04	*14h 43m*	*11h 10m*				Mo, 22. Jan
Di, 23. Jan		—:——:—	–	Mond stört		14:40	06:55	06:14	*35m*	06:50	*35m*	07:26	*35m*	08:01	*9h 17m*	17:18	*35m*	17:53	*35m*	18:29	*35m*	19:05	*14h 41m*	*11h 08m*				Di, 23. Jan
Mi, 24. Jan		—:——:—	–	Mond stört		15:43	07:43	06:13	*35m*	06:49	*35m*	07:25	*34m*	08:00	*9h 20m*	17:20	*34m*	17:55	*35m*	18:31	*35m*	19:06	*14h 38m*	*11h 06m*				Mi, 24. Jan
Do, 25. Jan		—:——:—	–	Mond stört	○	16:51	08:20	06:13	*35m*	06:48	*35m*	07:24	*34m*	07:59	*9h 22m*	17:21	*34m*	17:56	*35m*	18:32	*35m*	19:07	*14h 36m*	*11h 04m*				Do, 25. Jan
Fr, 26. Jan		—:——:—	–	Mond stört		18:00	08:49	06:12	*35m*	06:47	*35m*	07:23	*34m*	07:58	*9h 24m*	17:23	*34m*	17:57	*35m*	18:33	*35m*	19:09	*14h 34m*	*11h 02m*				Fr, 26. Jan
Sa, 27. Jan		—:——:—	–	Mond stört		19:07	09:11	06:11	*35m*	06:46	*35m*	07:22	*34m*	07:57	*9h 27m*	17:24	*34m*	17:59	*35m*	18:34	*35m*	19:10	*14h 31m*	*11h 00m*				Sa, 27. Jan
So, 28. Jan		19:11 – 20:13	*1h 02m*	AN$_+$ *bis* M↗		20:13	09:30	06:10	*35m*	06:46	*35m*	07:21	*34m*	07:56	*9h 29m*	17:26	*34m*	18:00	*35m*	18:36	*35m*	19:11	*14h 28m*	*10h 58m*				So, 28. Jan
Mo, 29. Jan		19:12 – 21:18	*2h 05m*	AN$_+$ *bis* M↗		21:18	09:45	06:09	*35m*	06:45	*35m*	07:20	*34m*	07:55	*9h 32m*	17:27	*34m*	18:01	*35m*	18:37	*35m*	19:12	*14h 26m*	*10h 55m*				Mo, 29. Jan
Di, 30. Jan		19:14 – 22:22	*3h 08m*	AN$_+$ *bis* M↗		22:22	10:00	06:08	*35m*	06:44	*35m*	07:19	*34m*	07:53	*9h 35m*	17:29	*34m*	18:03	*35m*	18:38	*35m*	19:14	*14h 23m*	*10h 53m*				Di, 30. Jan
Mi, 31. Jan		19:15 – 23:27	*4h 11m*	AN$_+$ *bis* M↗		23:27	10:15	06:07	*35m*	06:43	*35m*	07:18	*34m*	07:52	*9h 37m*	17:30	*34m*	18:04	*35m*	18:40	*35m*	19:15	*14h 21m*	*10h 51m*				Mi, 31. Jan
Do, 1. Feb		19:16 – 00:33*	*5h 17m*	AN$_+$ *bis* M↗		—:—	10:30	06:06	*35m*	06:42	*35m*	07:17	*34m*	07:51	*9h 40m*	17:32	*34m*	18:06	*35m*	18:41	*35m*	19:16	*14h 18m*	*10h 49m*				Do, 1. Feb
Fr, 2. Feb		19:18 – 01:43*	*6h 25m*	AN$_+$ *bis* M↗		00:33	10:47	06:05	*35m*	06:41	*35m*	07:16	*34m*	07:50	*9h 43m*	17:33	*34m*	18:07	*35m*	18:42	*35m*	19:18	*14h 15m*	*10h 46m*				Fr, 2. Feb
Sa, 3. Feb		19:19 – 02:55*	*7h 36m*	AN$_+$ *bis* M↗	◑	01:43	11:09	06:04	*35m*	06:39	*35m*	07:15	*33m*	07:49	*9h 45m*	17:35	*33m*	18:08	*35m*	18:44	*35m*	19:19	*14h 12m*	*10h 44m*				Sa, 3. Feb
So, 4. Feb		19:20 – 04:09*	*8h 49m*	AN$_+$ *bis* M↗		02:55	11:36	06:03	*35m*	06:38	*35m*	07:13	*33m*	07:47	*9h 48m*	17:36	*33m*	18:10	*35m*	18:45	*35m*	19:20	*14h 10m*	*10h 42m*				So, 4. Feb
Mo, 5. Feb		19:21 – 05:20*	*9h 58m*	AN$_+$ *bis* M↗		04:09	12:14	06:02	*35m*	06:37	*35m*	07:12	*33m*	07:46	*9h 51m*	17:38	*33m*	18:11	*35m*	18:46	*35m*	19:21	*14h 07m*	*10h 39m*				Mo, 5. Feb
Di, 6. Feb		19:23 – 06:00*	*10h 37m*	AN$_+$ *bis* AN$_-$		05:20	13:05	06:01	*34m*	06:36	*34m*	07:11	*33m*	07:45	*9h 54m*	17:39	*33m*	18:13	*35m*	18:48	*35m*	19:23	*14h 04m*	*10h 37m*				Di, 6. Feb
Mi, 7. Feb		19:24 – 05:59*	*10h 34m*	AN$_+$ *bis* AN$_-$		06:23	14:12	06:00	*34m*	06:35	*34m*	07:10	*33m*	07:43	*9h 57m*	17:41	*33m*	18:14	*34m*	18:49	*35m*	19:24	*14h 01m*	*10h 34m*				Mi, 7. Feb
Do, 8. Feb		19:25 – 05:57*	*10h 31m*	AN$_+$ *bis* AN$_-$		07:13	15:32	05:59	*34m*	06:34	*34m*	07:08	*33m*	07:42	*10h 00m*	17:42	*33m*	18:16	*34m*	18:50	*34m*	19:25	*13h 58m*	*10h 31m*				Do, 8. Feb
Fr, 9. Feb		19:27 – 05:56*	*10h 29m*	AN$_+$ *bis* AN$_-$	●	07:51	17:00	05:57	*34m*	06:32	*34m*	07:07	*33m*	07:40	*10h 03m*	17:44	*33m*	18:17	*34m*	18:52	*34m*	19:27	*13h 55m*	*10h 29m*				Fr, 9. Feb
Sa, 10. Feb		19:28 – 05:55*	*10h 26m*	AN$_+$ *bis* AN$_-$		08:20	18:28	05:56	*34m*	06:31	*34m*	07:06	*33m*	07:39	*10h 06m*	17:45	*33m*	18:18	*34m*	18:53	*34m*	19:28	*13h 52m*	*10h 26m*				Sa, 10. Feb
So, 11. Feb		19:54 – 05:53*	*9h 59m*	M↘ *bis* AN$_-$		08:43	19:54	05:55	*34m*	06:30	*34m*	07:04	*33m*	07:38	*10h 08m*	17:47	*33m*	18:20	*34m*	18:55	*34m*	19:29	*13h 49m*	*10h 24m*				So, 11. Feb
Mo, 12. Feb		21:18 – 05:52*	*8h 34m*	M↘ *bis* AN$_-$		09:04	21:18	05:53	*34m*	06:28	*34m*	07:03	*33m*	07:36	*10h 11m*	17:48	*33m*	18:21	*34m*	18:56	*34m*	19:31	*13h 46m*	*10h 21m*				Mo, 12. Feb
Di, 13. Feb		22:39 – 05:51*	*7h 11m*	M↘ *bis* AN$_-$		09:23	22:39	05:52	*34m*	06:27	*34m*	07:02	*33m*	07:35	*10h 15m*	17:50	*33m*	18:23	*34m*	18:57	*34m*	19:32	*13h 43m*	*10h 18m*				Di, 13. Feb
Mi, 14. Feb		00:00* – 05:49*	*5h 49m*	M↘ *bis* AN$_-$		09:42	—:—	05:51	*34m*	06:26	*34m*	07:00	*32m*	07:33	*10h 18m*	17:51	*32m*	18:24	*34m*	18:59	*34m*	19:33	*13h 40m*	*10h 15m*				Mi, 14. Feb
Do, 15. Feb		01:19* – 05:48*	*4h 28m*	M↘ *bis* AN$_-$		10:04	00:00	05:49	*34m*	06:24	*34m*	06:59	*32m*	07:31	*10h 21m*	17:53	*32m*	18:25	*34m*	19:00	*34m*	19:35	*13h 37m*	*10h 13m*				Do, 15. Feb
Fr, 16. Feb		02:37* – 05:46*	*3h 09m*	M↘ *bis* AN$_-$	◐	10:30	01:19	05:48	*34m*	06:23	*34m*	06:57	*32m*	07:30	*10h 24m*	17:54	*32m*	18:27	*34m*	19:01	*34m*	19:36	*13h 34m*	*10h 10m*				Fr, 16. Feb
Sa, 17. Feb		03:49* – 05:45*	*1h 56m*	M↘ *bis* AN$_-$		11:02	02:37	05:46	*34m*	06:21	*34m*	06:56	*32m*	07:28	*10h 27m*	17:56	*32m*	18:28	*34m*	19:03	*34m*	19:38	*13h 31m*	*10h 07m*				Sa, 17. Feb
So, 18. Feb		04:51* – 05:43*	*51m*	M↘ *bis* AN$_-$		11:43	03:49	05:45	*34m*	06:20	*34m*	06:54	*32m*	07:27	*10h 30m*	17:57	*32m*	18:30	*34m*	19:04	*34m*	19:39	*13h 27m*	*10h 04m*				So, 18. Feb
Mo, 19. Feb		—:——:—	–	Mond stört		12:34	04:51	05:43	*34m*	06:18	*34m*	06:52	*32m*	07:25	*10h 33m*	17:58	*32m*	18:31	*34m*	19:06	*34m*	19:40	*13h 24m*	*10h 01m*				Mo, 19. Feb

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		Δ*t*		Ph.	↗	↘	Astr.	Δ*t*	Naut.	Δ*t*	Bürg.	Δt	↗	Δ*t*	↘	Δ*t*	Bürg.	Δ*t*	Naut.	Δ*t*	Astr.	Δ*t*	Δ*t*		Δ*t*		
Di, 20. Feb		—:——:—	–	Mond stört		13:34	05:43	05:42	*34m*	06:17	*34m*	06:51	*32m*	07:23	*10h 36m*	18:00	*32m*	18:33	*34m*	19:07	*34m*	19:42	*13h 21m*	*9h 58m*				Di, 20. Feb
Mi, 21. Feb		—:——:—	–	Mond stört		14:40	06:23	05:40	*34m*	06:15	*34m*	06:49	*32m*	07:22	*10h 39m*	18:01	*32m*	18:34	*34m*	19:08	*34m*	19:43	*13h 18m*	*9h 55m*				Mi, 21. Feb
Do, 22. Feb		—:——:—	–	Mond stört		15:49	06:53	05:39	*34m*	06:13	*34m*	06:48	*32m*	07:20	*10h 42m*	18:03	*32m*	18:35	*34m*	19:10	*34m*	19:44	*13h 15m*	*9h 52m*				Do, 22. Feb
Fr, 23. Feb		—:——:—	–	Mond stört		16:57	07:17	05:37	*34m*	06:12	*34m*	06:46	*32m*	07:18	*10h 46m*	18:04	*32m*	18:37	*34m*	19:11	*34m*	19:46	*13h 12m*	*9h 49m*				Fr, 23. Feb
Sa, 24. Feb		—:——:—	–	Mond stört	○	18:04	07:36	05:35	*34m*	06:10	*34m*	06:44	*32m*	07:16	*10h 49m*	18:06	*32m*	18:38	*34m*	19:12	*34m*	19:47	*13h 08m*	*9h 46m*				Sa, 24. Feb
So, 25. Feb		—:——:—	–	Mond stört		19:09	07:52	05:34	*34m*	06:08	*34m*	06:42	*32m*	07:15	*10h 52m*	18:07	*32m*	18:40	*34m*	19:14	*34m*	19:49	*13h 05m*	*9h 43m*				So, 25. Feb
Mo, 26. Feb		19:50 – 20:13	*22m*	AN_+ *bis* $M_↗$		20:13	08:07	05:32	*34m*	06:07	*34m*	06:41	*32m*	07:13	*10h 55m*	18:09	*32m*	18:41	*34m*	19:15	*34m*	19:50	*13h 02m*	*9h 40m*				Mo, 26. Feb
Di, 27. Feb		19:51 – 21:17	*1h 25m*	AN_+ *bis* $M_↗$		21:17	08:21	05:30	*34m*	06:05	*34m*	06:39	*32m*	07:11	*10h 58m*	18:10	*32m*	18:42	*34m*	19:17	*34m*	19:51	*12h 59m*	*9h 36m*				Di, 27. Feb
Mi, 28. Feb		19:53 – 22:23	*2h 30m*	AN_+ *bis* $M_↗$		22:23	08:36	05:28	*34m*	06:03	*34m*	06:37	*32m*	07:09	*11h 02m*	18:12	*32m*	18:44	*34m*	19:18	*34m*	19:53	*12h 55m*	*9h 33m*				Mi, 28. Feb
Do, 29. Feb		19:54 – 23:31	*3h 36m*	AN_+ *bis* $M_↗$		23:31	08:52	05:27	*34m*	06:01	*34m*	06:36	*32m*	07:08	*11h 05m*	18:13	*32m*	18:45	*34m*	19:19	*34m*	19:54	*12h 52m*	*9h 30m*				Do, 29. Feb
Fr, 1. Mrz		19:56 – 00:41*	*4h 45m*	AN_+ *bis* $M_↗$		—:—	09:12	05:25	*34m*	06:00	*34m*	06:34	*32m*	07:06	*11h 08m*	18:14	*32m*	18:47	*34m*	19:21	*34m*	19:56	*12h 49m*	*9h 27m*				Fr, 1. Mrz
Sa, 2. Mrz		19:57 – 01:53*	*5h 56m*	AN_+ *bis* $M_↗$		00:41	09:36	05:23	*34m*	05:58	*34m*	06:32	*31m*	07:04	*11h 11m*	18:16	*32m*	18:48	*34m*	19:22	*35m*	19:57	*12h 46m*	*9h 24m*				Sa, 2. Mrz
So, 3. Mrz		19:59 – 03:04*	*7h 05m*	AN_+ *bis* $M_↗$	◑	01:53	10:08	05:21	*34m*	05:56	*34m*	06:30	*31m*	07:02	*11h 15m*	18:17	*32m*	18:49	*34m*	19:23	*35m*	19:59	*12h 42m*	*9h 20m*				So, 3. Mrz
Mo, 4. Mrz		20:00 – 04:08*	*8h 08m*	AN_+ *bis* $M_↗$		03:04	10:52	05:19	*34m*	05:54	*34m*	06:28	*31m*	07:00	*11h 18m*	18:19	*31m*	18:51	*34m*	19:25	*35m*	20:00	*12h 39m*	*9h 17m*				Mo, 4. Mrz
Di, 5. Mrz		20:01 – 05:02*	*9h 00m*	AN_+ *bis* $M_↗$		04:08	11:49	05:17	*35m*	05:52	*34m*	06:27	*31m*	06:58	*11h 21m*	18:20	*31m*	18:52	*34m*	19:26	*35m*	20:01	*12h 36m*	*9h 14m*				Di, 5. Mrz
Mi, 6. Mrz		20:03 – 05:14*	*9h 10m*	AN_+ *bis* AN_-		05:02	13:02	05:16	*35m*	05:51	*34m*	06:25	*31m*	06:57	*11h 25m*	18:22	*31m*	18:54	*34m*	19:28	*35m*	20:03	*12h 33m*	*9h 10m*				Mi, 6. Mrz
Do, 7. Mrz		20:04 – 05:12*	*9h 07m*	AN_+ *bis* AN_-		05:45	14:24	05:14	*35m*	05:49	*34m*	06:23	*31m*	06:55	*11h 28m*	18:23	*31m*	18:55	*34m*	19:29	*35m*	20:04	*12h 29m*	*9h 07m*				Do, 7. Mrz
Fr, 8. Mrz		20:06 – 05:10*	*9h 03m*	AN_+ *bis* AN_-		06:17	15:52	05:12	*35m*	05:47	*34m*	06:21	*31m*	06:53	*11h 31m*	18:24	*31m*	18:56	*34m*	19:30	*35m*	20:06	*12h 26m*	*9h 03m*				Fr, 8. Mrz
Sa, 9. Mrz		20:07 – 05:08*	*9h 00m*	AN_+ *bis* AN_-		06:43	17:19	05:10	*35m*	05:45	*34m*	06:19	*31m*	06:51	*11h 34m*	18:26	*31m*	18:58	*34m*	19:32	*35m*	20:07	*12h 23m*	*9h 00m*				Sa, 9. Mrz
So, 10. Mrz		20:09 – 05:06*	*8h 56m*	AN_+ *bis* AN_-	●	07:04	18:45	05:08	*35m*	05:43	*34m*	06:17	*31m*	06:49	*11h 38m*	18:27	*31m*	18:59	*34m*	19:33	*35m*	20:09	*12h 19m*	*8h 56m*				So, 10. Mrz
Mo, 11. Mrz		20:10 – 05:04*	*8h 53m*	AN_+ *bis* AN_-		07:24	20:10	05:06	*35m*	05:41	*34m*	06:15	*31m*	06:47	*11h 41m*	18:29	*31m*	19:00	*34m*	19:35	*35m*	20:10	*12h 16m*	*8h 53m*				Mo, 11. Mrz
Di, 12. Mrz		21:34 – 05:02*	*7h 27m*	$M_↘$ *bis* AN_-		07:44	21:34	05:04	*35m*	05:39	*34m*	06:13	*31m*	06:45	*11h 44m*	18:30	*31m*	19:02	*34m*	19:36	*35m*	20:12	*12h 13m*	*8h 49m*				Di, 12. Mrz
Mi, 13. Mrz		22:57 – 05:00*	*6h 02m*	$M_↘$ *bis* AN_-		08:05	22:57	05:02	*35m*	05:37	*34m*	06:11	*31m*	06:43	*11h 48m*	18:31	*31m*	19:03	*34m*	19:38	*35m*	20:13	*12h 09m*	*8h 46m*				Mi, 13. Mrz
Do, 14. Mrz		00:19* – 04:58*	*4h 38m*	$M_↘$ *bis* AN_-		08:30	—:—	05:00	*35m*	05:35	*34m*	06:10	*31m*	06:41	*11h 51m*	18:33	*31m*	19:05	*34m*	19:39	*35m*	20:15	*12h 06m*	*8h 42m*				Do, 14. Mrz
Fr, 15. Mrz		01:36* – 04:55*	*3h 19m*	$M_↘$ *bis* AN_-		09:00	00:19	04:58	*35m*	05:33	*34m*	06:08	*31m*	06:39	*11h 54m*	18:34	*31m*	19:06	*34m*	19:40	*35m*	20:16	*12h 03m*	*8h 39m*				Fr, 15. Mrz
Sa, 16. Mrz		02:45* – 04:53*	*2h 08m*	$M_↘$ *bis* AN_-		09:39	01:36	04:55	*35m*	05:31	*34m*	06:06	*31m*	06:37	*11h 58m*	18:35	*31m*	19:07	*34m*	19:42	*35m*	20:18	*12h 00m*	*8h 35m*				Sa, 16. Mrz
So, 17. Mrz		03:41* – 04:51*	*1h 10m*	$M_↘$ *bis* AN_-	◐	10:27	02:45	04:53	*35m*	05:29	*34m*	06:04	*31m*	06:35	*12h 01m*	18:37	*31m*	19:09	*34m*	19:43	*36m*	20:19	*11h 56m*	*8h 31m*				So, 17. Mrz
Mo, 18. Mrz		04:24* – 04:49*	*24m*	$M_↘$ *bis* AN_-		11:25	03:41	04:51	*36m*	05:27	*34m*	06:02	*31m*	06:34	*12h 04m*	18:38	*31m*	19:10	*34m*	19:45	*36m*	20:21	*11h 53m*	*8h 28m*				Mo, 18. Mrz
Di, 19. Mrz		—:——:—	–	Mond stört		12:31	04:24	04:49	*36m*	05:25	*34m*	06:00	*31m*	06:32	*12h 07m*	18:40	*31m*	19:11	*34m*	19:46	*36m*	20:22	*11h 50m*	*8h 24m*				Di, 19. Mrz
Mi, 20. Mrz		—:——:—	–	Mond stört		13:39	04:57	04:47	*36m*	05:23	*34m*	05:58	*31m*	06:30	*12h 11m*	18:41	*31m*	19:13	*34m*	19:48	*36m*	20:24	*11h 46m*	*8h 20m*				Mi, 20. Mrz
Do, 21. Mrz		—:——:—	–	Mond stört		14:47	05:23	04:45	*36m*	05:21	*34m*	05:56	*31m*	06:28	*12h 14m*	18:42	*31m*	19:14	*34m*	19:49	*36m*	20:26	*11h 43m*	*8h 17m*				Do, 21. Mrz
Fr, 22. Mrz		—:——:—	–	Mond stört		15:54	05:43	04:43	*36m*	05:19	*34m*	05:54	*31m*	06:26	*12h 17m*	18:44	*31m*	19:16	*34m*	19:50	*36m*	20:27	*11h 40m*	*8h 13m*				Fr, 22. Mrz
Sa, 23. Mrz		—:——:—	–	Mond stört		17:00	06:00	04:40	*36m*	05:17	*34m*	05:52	*31m*	06:24	*12h 21m*	18:45	*32m*	19:17	*34m*	19:52	*36m*	20:29	*11h 36m*	*8h 09m*				Sa, 23. Mrz
So, 24. Mrz		—:——:—	–	Mond stört		18:04	06:15	04:38	*36m*	05:15	*34m*	05:50	*31m*	06:22	*12h 24m*	18:46	*32m*	19:18	*34m*	19:53	*36m*	20:30	*11h 33m*	*8h 05m*				So, 24. Mrz
Mo, 25. Mrz		—:——:—	–	Mond stört	○	19:09	06:29	04:36	*36m*	05:13	*34m*	05:48	*32m*	06:20	*12h 27m*	18:48	*32m*	19:20	*35m*	19:55	*37m*	20:32	*11h 30m*	*8h 01m*				Mo, 25. Mrz
Di, 26. Mrz		—:——:—	–	Mond stört		20:14	06:43	04:34	*37m*	05:11	*35m*	05:46	*32m*	06:18	*12h 31m*	18:49	*32m*	19:21	*35m*	19:56	*37m*	20:34	*11h 26m*	*7h 57m*				Di, 26. Mrz
Mi, 27. Mrz		20:35 – 21:22	*46m*	AN_+ *bis* $M_↗$		21:22	06:59	04:32	*37m*	05:09	*35m*	05:44	*32m*	06:16	*12h 34m*	18:50	*32m*	19:23	*35m*	19:58	*37m*	20:35	*11h 23m*	*7h 54m*				Mi, 27. Mrz
Do, 28. Mrz		20:37 – 22:32	*1h 54m*	AN_+ *bis* $M_↗$		22:32	07:17	04:29	*37m*	05:07	*35m*	05:42	*32m*	06:14	*12h 37m*	18:52	*32m*	19:24	*35m*	19:59	*37m*	20:37	*11h 20m*	*7h 50m*				Do, 28. Mrz
Fr, 29. Mrz		20:39 – 23:43	*3h 04m*	AN_+ *bis* $M_↗$		23:43	07:40	04:27	*37m*	05:05	*35m*	05:40	*32m*	06:12	*12h 40m*	18:53	*32m*	19:25	*35m*	20:01	*37m*	20:39	*11h 17m*	*7h 46m*				Fr, 29. Mrz
Sa, 30. Mrz		20:40 – 00:54*	*4h 13m*	AN_+ *bis* $M_↗$		—:—	08:09	04:25	*37m*	05:03	*35m*	05:38	*32m*	06:10	*12h 44m*	18:54	*32m*	19:27	*35m*	20:02	*37m*	20:40	*11h 13m*	*7h 42m*				Sa, 30. Mrz
So, 31. Mrz	MESZ	21:42 – 02:59*	*5h 17m*	AN_+ *bis* $M_↗$		01:54	09:47	05:23	*37m*	06:00	*35m*	06:36	*32m*	07:08	*12h 47m*	19:56	*32m*	20:28	*35m*	21:04	*38m*	21:42	*11h 10m*	*7h 38m*				So, 31. Mrz
Mo, 1. Apr	MESZ	21:44 – 03:56*	*6h 12m*	AN_+ *bis* $M_↗$		02:59	10:39	05:20	*38m*	05:58	*35m*	06:34	*32m*	07:06	*12h 50m*	19:57	*32m*	20:30	*35m*	21:05	*38m*	21:44	*11h 07m*	*7h 34m*				Mo, 1. Apr
Di, 2. Apr	MESZ	21:45 – 04:41*	*6h 55m*	AN_+ *bis* $M_↗$	◑	03:56	11:43	05:18	*38m*	05:56	*35m*	06:32	*32m*	07:04	*12h 54m*	19:58	*32m*	20:31	*35m*	21:07	*38m*	21:45	*11h 04m*	*7h 30m*				Di, 2. Apr
Mi, 3. Apr	MESZ	21:47 – 05:13*	*7h 26m*	AN_+ *bis* AN_-		04:41	13:00	05:16	*38m*	05:54	*35m*	06:30	*32m*	07:02	*12h 57m*	20:00	*32m*	20:32	*36m*	21:08	*38m*	21:47	*11h 00m*	*7h 26m*				Mi, 3. Apr
Do, 4. Apr	MESZ	21:49 – 05:11*	*7h 22m*	AN_+ *bis* AN_-		05:16	14:22	05:13	*38m*	05:52	*35m*	06:28	*32m*	07:01	*13h 00m*	20:01	*32m*	20:34	*36m*	21:10	*38m*	21:49	*10h 57m*	*7h 22m*				Do, 4. Apr
Fr, 5. Apr	MESZ	21:51 – 05:09*	*7h 18m*	AN_+ *bis* AN_-		05:43	15:47	05:11	*38m*	05:50	*36m*	06:26	*32m*	06:59	*13h 03m*	20:02	*32m*	20:35	*36m*	21:11	*39m*	21:51	*10h 54m*	*7h 18m*				Fr, 5. Apr
Sa, 6. Apr	MESZ	21:52 – 05:06*	*7h 13m*	AN_+ *bis* AN_-		06:06	17:12	05:09	*39m*	05:48	*36m*	06:24	*32m*	06:57	*13h 07m*	20:04	*32m*	20:37	*36m*	21:13	*39m*	21:52	*10h 51m*	*7h 13m*				Sa, 6. Apr
So, 7. Apr	MESZ	21:54 – 05:04*	*7h 09m*	AN_+ *bis* AN_-		06:26	18:36	05:06	*39m*	05:46	*36m*	06:22	*32m*	06:55	*13h 10m*	20:05	*32m*	20:38	*36m*	21:15	*39m*	21:54	*10h 47m*	*7h 09m*				So, 7. Apr
Mo, 8. Apr	MESZ	21:56 – 05:02*	*7h 05m*	AN_+ *bis* AN_-	●	06:45	20:00	05:04	*39m*	05:44	*36m*	06:20	*32m*	06:53	*13h 13m*	20:06	*32m*	20:39	*36m*	21:16	*39m*	21:56	*10h 44m*	*7h 05m*				Mo, 8. Apr
Di, 9. Apr	MESZ	21:58 – 04:59*	*7h 01m*	AN_+ *bis* AN_-		07:05	21:25	05:02	*39m*	05:41	*36m*	06:18	*32m*	06:51	*13h 16m*	20:08	*33m*	20:41	*36m*	21:18	*40m*	21:58	*10h 41m*	*7h 01m*				Di, 9. Apr

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

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

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

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

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

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