

Mond- und Dämmerungstabelle 2024

für die visuelle Deep-Sky-Beobachtung

Wiesbaden 50.0821° N 8.2414° E

Berechnung: pyEphem
Textsatz: L^AT_EX

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_v (Monduntergang), AN₋ (Ende der astronomischen Nacht = Beginn der astr. Morgendämmerung), M_l

(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°).

Spalte 10 Dauer der astr. Morgendämmerung.

Spalte 11 Beginn der naut. Morgendämmerung (Sonnenhöhe = -12°).

Spalte 12 Dauer der naut. Morgendämmerung.

Spalte 13 Beginn der bürg. Morgendämmerung (Sonnenhöhe = -6°).

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°).

Spalte 20 Dauer der naut. Abenddämmerung.

Spalte 21 Ende der naut. Abenddämmerung (Sonnenhöhe = -12°).

Spalte 22 Dauer der astr. Abenddämmerung.

Spalte 23 Ende der astr. Abenddämmerung (Sonnenhöhe = -18°).

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°) 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_v (Monduntergang), ND₋ (Ende der »naut. Dunkelheit« = Beginn der naut. Morgendämmerung), M_l (Mondaufgang), Naut. MD (Nautische Mitternachtsdämmerung).

Spalte 29 Identisch zu Spalte 1.

Table with 29 columns (1-29) and 55 rows of astronomical data including date, time, moon phase, and twilight durations. Headers include '2024', 'Zeitzone', 'Astr. dunkel und kein Mond', 'Mond', 'Beginn der Morgendämmerung', 'Sonne', 'Ende der Abenddämmerung', 'Nacht', 'Astr. N.', 'Naut. dunkel und kein Mond', and '2024'.

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

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

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

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