

Mond- und Dämmerungstabelle 2023

für die visuelle Deep-Sky-Beobachtung

Wiener Neustadt 47.8167° N 16.2500° 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 angegebenen Kalendertag. Liegt ein Ereignis bereits nach Mitternacht, also schon am Folgetag, ist die Zeitangabe mit einem * gekennzeichnet, z.B.: 00:20*.

Spalte 1 Kalendertag.

Spalte 2 Bei »MESZ« sind alle Zeitangaben in dieser Zeile in Mitteleuropäischer Sommerzeit, ansonsten standardmäßig in MEZ.

Spalte 3 Die für Deep-Sky-Beobachtungen nutzbare Zeitspanne: Es ist astronomisch dunkel (Sonne steht tiefer als -18°) 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), M₇

(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), M₇ (Mondaufgang), Naut. MD (Nautische Mitternachtsdämmerung).

Spalte 29 Identisch zu Spalte 1.

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

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

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

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