

Mond- und Dämmerungstabelle 2024

für die visuelle Deep-Sky-Beobachtung

Oberpullendorf 47.5000° N 16.5167° 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), 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
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		
Fr, 19. Jul	MESZ	—:—:—:—	—	Mond stört		19:51	02:20	02:38	1h 07m	03:45	49m	04:35	40m	05:16	15h 27m	20:43	40m	21:24	49m	22:13	1h 06m	23:20	8h 33m	3h 20m				Fr, 19. Jul
Sa, 20. Jul	MESZ	—:—:—:—	—	Mond stört		20:42	03:21	02:40	1h 06m	03:47	49m	04:37	40m	05:17	15h 25m	20:42	40m	21:22	49m	22:12	1h 05m	23:17	8h 36m	3h 25m				Sa, 20. Jul
So, 21. Jul	MESZ	—:—:~:~	—	Mond stört	○	21:20	04:37	02:43	1h 05m	03:49	49m	04:38	40m	05:18	15h 22m	20:41	40m	21:21	48m	22:10	1h 04m	23:15	8h 38m	3h 30m				So, 21. Jul
Mo, 22. Jul	MESZ	—:~:~:~	—	Mond stört		21:49	06:00	02:45	1h 04m	03:50	48m	04:39	40m	05:19	15h 20m	20:40	39m	21:20	48m	22:08	1h 03m	23:12	8h 40m	3h 35m				Mo, 22. Jul
Di, 23. Jul	MESZ	—:~:~:~	—	Mond stört		22:11	07:27	02:48	1h 03m	03:52	48m	04:40	39m	05:20	15h 18m	20:39	39m	21:19	48m	22:07	1h 02m	23:10	8h 42m	3h 40m				Di, 23. Jul
Mi, 24. Jul	MESZ	—:~:~:~	—	Mond stört		22:30	08:52	02:51	1h 02m	03:54	48m	04:42	39m	05:22	15h 16m	20:38	39m	21:17	47m	22:05	1h 02m	23:07	8h 45m	3h 46m				Mi, 24. Jul
Do, 25. Jul	MESZ	—:~:~:~	—	Mond stört		22:47	10:14	02:53	1h 02m	03:55	47m	04:43	39m	05:23	15h 13m	20:37	39m	21:16	47m	22:03	1h 01m	23:05	8h 47m	3h 51m				Do, 25. Jul
Fr, 26. Jul	MESZ	23:02–23:05	2m	AN ₊ bis M ₇		23:05	11:36	02:56	1h 01m	03:57	47m	04:45	39m	05:24	15h 11m	20:35	39m	21:14	47m	22:02	1h 00m	23:02	8h 49m	3h 56m				Fr, 26. Jul
Sa, 27. Jul	MESZ	22:59–23:23	24m	AN ₊ bis M ₇		23:23	12:57	02:58	1h 00m	03:59	47m	04:46	39m	05:25	15h 08m	20:34	39m	21:13	46m	22:00	59m	22:59	8h 52m	4h 01m				Sa, 27. Jul
So, 28. Jul	MESZ	22:57–23:46	49m	AN ₊ bis M ₇	◐	23:46	14:19	03:01	59m	04:00	46m	04:47	39m	05:26	15h 06m	20:33	38m	21:12	46m	21:58	58m	22:57	8h 54m	4h 06m				So, 28. Jul
Mo, 29. Jul	MESZ	22:54–00:14*	1h 19m	AN ₊ bis M ₇		—:—	15:40	03:03	58m	04:02	46m	04:49	38m	05:28	15h 03m	20:31	38m	21:10	46m	21:56	57m	22:54	8h 57m	4h 11m				Mo, 29. Jul
Di, 30. Jul	MESZ	22:52–00:51*	1h 59m	AN ₊ bis M ₇		00:14	16:59	03:06	57m	04:04	46m	04:50	38m	05:29	15h 01m	20:30	38m	21:09	45m	21:55	57m	22:52	8h 59m	4h 16m				Di, 30. Jul
Mi, 31. Jul	MESZ	22:49–01:40*	2h 50m	AN ₊ bis M ₇		00:51	18:09	03:08	57m	04:06	45m	04:52	38m	05:30	14h 58m	20:29	38m	21:07	45m	21:53	56m	22:49	9h 02m	4h 21m				Mi, 31. Jul
Do, 1. Aug	MESZ	22:46–02:40*	3h 53m	AN ₊ bis M ₇		01:40	19:08	03:11	56m	04:07	45m	04:53	38m	05:31	14h 56m	20:27	38m	21:05	45m	21:51	55m	22:46	9h 05m	4h 27m				Do, 1. Aug
Fr, 2. Aug	MESZ	22:44–03:16*	4h 32m	AN ₊ bis AN ₋		02:40	19:53	03:13	55m	04:09	45m	04:54	38m	05:33	14h 53m	20:26	37m	21:04	44m	21:49	54m	22:44	9h 07m	4h 32m				Fr, 2. Aug
Sa, 3. Aug	MESZ	22:41–03:18*	4h 37m	AN ₊ bis AN ₋		03:49	20:26	03:16	54m	04:11	44m	04:56	37m	05:34	14h 50m	20:24	37m	21:02	44m	21:47	54m	22:41	9h 10m	4h 37m				Sa, 3. Aug
So, 4. Aug	MESZ	22:39–03:21*	4h 42m	AN ₊ bis AN ₋	●	05:02	20:51	03:18	54m	04:13	44m	04:57	37m	05:35	14h 47m	20:23	37m	21:01	44m	21:45	53m	22:39	9h 13m	4h 42m				So, 4. Aug
Mo, 5. Aug	MESZ	22:36–03:23*	4h 47m	AN ₊ bis AN ₋		06:14	21:10	03:21	53m	04:14	44m	04:59	37m	05:36	14h 45m	20:22	37m	20:59	44m	21:43	52m	22:36	9h 16m	4h 47m				Mo, 5. Aug
Di, 6. Aug	MESZ	22:33–03:26*	4h 52m	AN ₊ bis AN ₋		07:24	21:26	03:23	53m	04:16	44m	05:00	37m	05:38	14h 42m	20:20	37m	20:57	43m	21:41	52m	22:33	9h 19m	4h 52m				Di, 6. Aug
Mi, 7. Aug	MESZ	22:31–03:28*	4h 57m	AN ₊ bis AN ₋		08:32	21:40	03:26	52m	04:18	43m	05:02	37m	05:39	14h 39m	20:18	37m	20:56	43m	21:39	51m	22:31	9h 21m	4h 57m				Mi, 7. Aug
Do, 8. Aug	MESZ	22:28–03:30*	5h 02m	AN ₊ bis AN ₋		09:38	21:53	03:28	51m	04:20	43m	05:03	37m	05:40	14h 36m	20:17	36m	20:54	43m	21:37	51m	22:28	9h 24m	5h 02m				Do, 8. Aug
Fr, 9. Aug	MESZ	22:25–03:33*	5h 07m	AN ₊ bis AN ₋		10:43	22:06	03:30	51m	04:22	43m	05:05	36m	05:42	14h 33m	20:15	36m	20:52	42m	21:35	50m	22:25	9h 27m	5h 07m				Fr, 9. Aug
Sa, 10. Aug	MESZ	22:23–03:35*	5h 12m	AN ₊ bis AN ₋		11:49	22:21	03:33	50m	04:23	42m	05:06	36m	05:43	14h 30m	20:14	36m	20:50	42m	21:33	50m	22:23	9h 30m	5h 12m				Sa, 10. Aug
So, 11. Aug	MESZ	22:38–03:37*	4h 58m	M ₇ bis AN ₋		12:56	22:38	03:35	50m	04:25	42m	05:08	36m	05:44	14h 27m	20:12	36m	20:48	42m	21:31	49m	22:20	9h 33m	5h 17m				So, 11. Aug
Mo, 12. Aug	MESZ	23:00–03:40*	4h 39m	M ₇ bis AN ₋	◑	14:07	23:00	03:37	49m	04:27	42m	05:09	36m	05:46	14h 24m	20:10	36m	20:47	42m	21:29	48m	22:18	9h 36m	5h 21m				Mo, 12. Aug
Di, 13. Aug	MESZ	23:28–03:42*	4h 13m	M ₇ bis AN ₋		15:19	23:28	03:40	49m	04:29	42m	05:11	36m	05:47	14h 21m	20:09	36m	20:45	41m	21:27	48m	22:15	9h 39m	5h 26m				Di, 13. Aug
Mi, 14. Aug	MESZ	00:08*–03:44*	3h 36m	M ₇ bis AN ₋		16:30	—:—	03:42	48m	04:30	41m	05:12	36m	05:48	14h 18m	20:07	36m	20:43	41m	21:24	47m	22:12	9h 42m	5h 31m				Mi, 14. Aug
Do, 15. Aug	MESZ	01:01*–03:46*	2h 45m	M ₇ bis AN ₋		17:36	00:08	03:44	48m	04:32	41m	05:14	36m	05:50	14h 15m	20:05	35m	20:41	41m	21:22	47m	22:10	9h 45m	5h 36m				Do, 15. Aug
Fr, 16. Aug	MESZ	02:10*–03:48*	1h 38m	M ₇ bis AN ₋		18:31	01:01	03:46	47m	04:34	41m	05:15	35m	05:51	14h 12m	20:03	35m	20:39	41m	21:20	47m	22:07	9h 48m	5h 41m				Fr, 16. Aug
Sa, 17. Aug	MESZ	03:30*–03:51*	20m	M ₇ bis AN ₋		19:15	02:10	03:48	47m	04:35	41m	05:17	35m	05:52	14h 09m	20:02	35m	20:37	40m	21:18	46m	22:05	9h 51m	5h 45m				Sa, 17. Aug
So, 18. Aug	MESZ	—:~:~:~	—	Mond stört		19:48	03:30	03:51	46m	04:37	40m	05:18	35m	05:54	14h 06m	20:00	35m	20:35	40m	21:16	46m	22:02	9h 55m	5h 50m				So, 18. Aug
Mo, 19. Aug	MESZ	—:~:~:~	—	Mond stört	○	20:13	04:57	03:53	46m	04:39	40m	05:19	35m	05:55	14h 03m	19:58	35m	20:33	40m	21:14	45m	21:59	9h 58m	5h 55m				Mo, 19. Aug
Di, 20. Aug	MESZ	—:~:~:~	—	Mond stört		20:33	06:24	03:55	45m	04:41	40m	05:21	35m	05:56	14h 00m	19:56	35m	20:31	40m	21:11	45m	21:57	10h 01m	6h 00m				Di, 20. Aug
Mi, 21. Aug	MESZ	—:~:~:~	—	Mond stört		20:52	07:51	03:57	45m	04:42	40m	05:22	35m	05:58	13h 56m	19:54	35m	20:29	39m	21:09	44m	21:54	10h 04m	6h 04m				Mi, 21. Aug
Do, 22. Aug	MESZ	—:~:~:~	—	Mond stört		21:09	09:16	03:59	44m	04:44	39m	05:24	35m	05:59	13h 53m	19:53	34m	20:27	39m	21:07	44m	21:52	10h 07m	6h 09m				Do, 22. Aug
Fr, 23. Aug	MESZ	—:~:~:~	—	Mond stört		21:28	10:40	04:01	44m	04:46	39m	05:25	34m	06:00	13h 50m	19:51	34m	20:25	39m	21:05	44m	21:49	10h 10m	6h 14m				Fr, 23. Aug
Sa, 24. Aug	MESZ	21:47–21:49	2m	AN ₊ bis M ₇		21:49	12:04	04:03	44m	04:47	39m	05:27	34m	06:02	13h 47m	19:49	34m	20:23	39m	21:03	43m	21:47	10h 14m	6h 18m				Sa, 24. Aug
So, 25. Aug	MESZ	21:44–22:16	31m	AN ₊ bis M ₇		22:16	13:28	04:05	43m	04:49	39m	05:28	34m	06:03	13h 44m	19:47	34m	20:21	39m	21:01	43m	21:44	10h 17m	6h 23m				So, 25. Aug
Mo, 26. Aug	MESZ	21:41–22:50	1h 08m	AN ₊ bis M ₇	◐	22:50	14:49	04:07	43m	04:51	39m	05:30	34m	06:04	13h 40m	19:45	34m	20:19	38m	20:58	43m	21:41	10h 20m	6h 27m				Mo, 26. Aug
Di, 27. Aug	MESZ	21:39–23:35	1h 56m	AN ₊ bis M ₇		23:35	16:03	04:09	43m	04:52	38m	05:31	34m	06:06	13h 37m	19:43	34m	20:17	38m	20:56	42m	21:39	10h 23m	6h 32m				Di, 27. Aug
Mi, 28. Aug	MESZ	21:36–00:32*	2h 56m	AN ₊ bis M ₇		—:—	17:05	04:11	42m	04:54	38m	05:33	34m	06:07	13h 34m	19:41	34m	20:15	38m	20:54	42m	21:36	10h 27m	6h 36m				Mi, 28. Aug
Do, 29. Aug	MESZ	21:34–01:39*	4h 04m	AN ₊ bis M ₇		00:32	17:53	04:13	42m	04:56	38m	05:34	34m	06:08	13h 31m	19:39	34m	20:13	38m	20:52	42m	21:34	10h 30m	6h 41m				Do, 29. Aug
Fr, 30. Aug	MESZ	21:31–02:50*	5h 18m	AN ₊ bis M ₇		01:39	18:29</																					

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

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		
So, 27. Okt		18:29–02:09*	7h 40m	AN ₊ bis M _J		01:02	15:03	04:45	35m	05:21	35m	05:56	33m	06:30	10h 14m	16:44	33m	17:18	35m	17:53	35m	18:29	13h 47m	10h 17m				So, 27. Okt
Mo, 28. Okt		18:27–03:14*	8h 47m	AN ₊ bis M _J		02:09	15:17	04:46	35m	05:22	35m	05:58	33m	06:31	10h 10m	16:42	33m	17:16	35m	17:51	35m	18:27	13h 50m	10h 20m				Mo, 28. Okt
Di, 29. Okt		18:26–04:20*	9h 53m	AN ₊ bis M _J		03:14	15:30	04:48	35m	05:23	35m	05:59	33m	06:33	10h 07m	16:41	33m	17:15	35m	17:50	35m	18:26	13h 53m	10h 23m				Di, 29. Okt
Mi, 30. Okt		18:24–04:51*	10h 26m	AN ₊ bis AN ₋		04:20	15:43	04:49	35m	05:25	35m	06:00	34m	06:34	10h 04m	16:39	33m	17:13	35m	17:49	35m	18:24	13h 56m	10h 26m				Mi, 30. Okt
Do, 31. Okt		18:23–04:52*	10h 29m	AN ₊ bis AN ₋		05:26	15:58	04:51	35m	05:26	35m	06:02	34m	06:36	10h 01m	16:38	34m	17:12	35m	17:47	35m	18:23	13h 59m	10h 29m				Do, 31. Okt
Fr, 1. Nov		18:21–04:53*	10h 31m	AN ₊ bis AN ₋	●	06:34	16:15	04:52	35m	05:28	35m	06:03	34m	06:37	9h 58m	16:36	34m	17:10	35m	17:46	35m	18:21	14h 02m	10h 31m				Fr, 1. Nov
Sa, 2. Nov		18:20–04:54*	10h 34m	AN ₊ bis AN ₋		07:43	16:36	04:53	35m	05:29	35m	06:05	34m	06:39	9h 55m	16:34	34m	17:09	35m	17:44	35m	18:20	14h 05m	10h 34m				Sa, 2. Nov
So, 3. Nov		18:19–04:56*	10h 37m	AN ₊ bis AN ₋		08:54	17:04	04:54	35m	05:30	35m	06:06	34m	06:40	9h 52m	16:33	34m	17:07	35m	17:43	35m	18:19	14h 08m	10h 37m				So, 3. Nov
Mo, 4. Nov		18:17–04:57*	10h 39m	AN ₊ bis AN ₋		10:03	17:41	04:56	35m	05:32	35m	06:07	34m	06:42	9h 49m	16:31	34m	17:06	35m	17:42	35m	18:17	14h 11m	10h 39m				Mo, 4. Nov
Di, 5. Nov		18:31–04:58*	10h 27m	M _\ bis AN ₋		11:07	18:31	04:57	35m	05:33	35m	06:09	34m	06:43	9h 46m	16:30	34m	17:05	35m	17:40	35m	18:16	14h 14m	10h 42m				Di, 5. Nov
Mi, 6. Nov		19:33–05:00*	9h 27m	M _\ bis AN ₋		12:00	19:33	04:58	35m	05:34	35m	06:10	34m	06:45	9h 43m	16:29	34m	17:03	35m	17:39	35m	18:15	14h 17m	10h 44m				Mi, 6. Nov
Do, 7. Nov		20:45–05:01*	8h 16m	M _\ bis AN ₋		12:42	20:45	05:00	35m	05:36	36m	06:12	34m	06:46	9h 40m	16:27	34m	17:02	35m	17:38	35m	18:14	14h 20m	10h 47m				Do, 7. Nov
Fr, 8. Nov		22:03–05:02*	6h 59m	M _\ bis AN ₋		13:14	22:03	05:01	35m	05:37	36m	06:13	34m	06:48	9h 37m	16:26	34m	17:01	36m	17:37	35m	18:13	14h 23m	10h 49m				Fr, 8. Nov
Sa, 9. Nov		23:24–05:04*	5h 39m	M _\ bis AN ₋	◐	13:39	23:24	05:02	35m	05:38	36m	06:14	34m	06:49	9h 35m	16:25	34m	17:00	36m	17:36	35m	18:12	14h 26m	10h 52m				Sa, 9. Nov
So, 10. Nov		00:45*–05:05*	4h 19m	M _\ bis AN ₋		13:59	—:—	05:04	36m	05:40	36m	06:16	35m	06:51	9h 32m	16:23	35m	16:58	36m	17:35	35m	18:11	14h 29m	10h 54m				So, 10. Nov
Mo, 11. Nov		02:07*–05:06*	2h 59m	M _\ bis AN ₋		14:17	00:45	05:05	36m	05:41	36m	06:17	35m	06:52	9h 29m	16:22	35m	16:57	36m	17:33	36m	18:09	14h 31m	10h 56m				Mo, 11. Nov
Di, 12. Nov		03:30*–05:07*	1h 37m	M _\ bis AN ₋		14:35	02:07	05:06	36m	05:42	36m	06:19	35m	06:54	9h 26m	16:21	35m	16:56	36m	17:32	36m	18:08	14h 34m	10h 58m				Di, 12. Nov
Mi, 13. Nov		04:56*–05:09*	12m	M _\ bis AN ₋		14:53	03:30	05:07	36m	05:44	36m	06:20	35m	06:55	9h 24m	16:20	35m	16:55	36m	17:31	36m	18:08	14h 37m	11h 01m				Mi, 13. Nov
Do, 14. Nov		—:—:—:—	–	Mond stört		15:13	04:56	05:09	36m	05:45	36m	06:21	35m	06:57	9h 21m	16:18	35m	16:54	36m	17:30	36m	18:07	14h 39m	11h 03m				Do, 14. Nov
Fr, 15. Nov		—:—:—:—	–	Mond stört	○	15:39	06:24	05:10	36m	05:46	36m	06:23	35m	06:58	9h 18m	16:17	35m	16:53	36m	17:29	36m	18:06	14h 42m	11h 05m				Fr, 15. Nov
Sa, 16. Nov		—:—:—:—	–	Mond stört		16:13	07:53	05:11	36m	05:47	36m	06:24	35m	07:00	9h 16m	16:16	35m	16:52	36m	17:29	36m	18:05	14h 45m	11h 07m				Sa, 16. Nov
So, 17. Nov		—:~:~:~:~	–	Mond stört		16:59	09:17	05:12	36m	05:49	36m	06:25	35m	07:01	9h 13m	16:15	35m	16:51	36m	17:28	36m	18:04	14h 47m	11h 09m				So, 17. Nov
Mo, 18. Nov		—:~:~:~:~	–	Mond stört		17:58	10:28	05:14	36m	05:50	36m	06:27	35m	07:03	9h 11m	16:14	35m	16:50	36m	17:27	36m	18:03	14h 50m	11h 11m				Mo, 18. Nov
Di, 19. Nov		18:02–19:08	1h 05m	AN ₊ bis M _J		19:08	11:23	05:15	36m	05:51	36m	06:28	36m	07:04	9h 08m	16:13	36m	16:49	36m	17:26	36m	18:02	14h 52m	11h 13m				Di, 19. Nov
Mi, 20. Nov		18:02–20:23	2h 21m	AN ₊ bis M _J		20:23	12:02	05:16	36m	05:52	36m	06:29	36m	07:06	9h 06m	16:12	36m	16:48	36m	17:25	36m	18:02	14h 54m	11h 15m				Mi, 20. Nov
Do, 21. Nov		18:01–21:37	3h 36m	AN ₊ bis M _J		21:37	12:31	05:17	36m	05:54	37m	06:31	36m	07:07	9h 04m	16:11	36m	16:48	37m	17:25	36m	18:01	14h 57m	11h 17m				Do, 21. Nov
Fr, 22. Nov		18:00–22:49	4h 48m	AN ₊ bis M _J		22:49	12:52	05:18	36m	05:55	37m	06:32	36m	07:08	9h 02m	16:10	36m	16:47	37m	17:24	36m	18:00	14h 59m	11h 19m				Fr, 22. Nov
Sa, 23. Nov		18:00–23:58	5h 57m	AN ₊ bis M _J	◑	23:58	13:09	05:20	36m	05:56	37m	06:33	36m	07:10	8h 59m	16:10	36m	16:46	37m	17:23	36m	18:00	15h 01m	11h 20m				Sa, 23. Nov
So, 24. Nov		17:59–01:04*	7h 04m	AN ₊ bis M _J		—:—	13:24	05:21	36m	05:57	37m	06:35	36m	07:11	8h 57m	16:09	36m	16:45	37m	17:23	36m	17:59	15h 03m	11h 22m				So, 24. Nov
Mo, 25. Nov		17:59–02:09*	8h 10m	AN ₊ bis M _J		01:04	13:37	05:22	36m	05:59	37m	06:36	36m	07:13	8h 55m	16:08	36m	16:45	37m	17:22	36m	17:59	15h 05m	11h 24m				Mo, 25. Nov
Di, 26. Nov		17:58–03:14*	9h 16m	AN ₊ bis M _J		02:09	13:50	05:23	36m	06:00	37m	06:37	36m	07:14	8h 53m	16:07	36m	16:44	37m	17:22	36m	17:58	15h 07m	11h 25m				Di, 26. Nov
Mi, 27. Nov		17:58–04:22*	10h 23m	AN ₊ bis M _J		03:14	14:04	05:24	36m	06:01	37m	06:38	36m	07:15	8h 51m	16:07	36m	16:44	37m	17:21	36m	17:58	15h 09m	11h 27m				Mi, 27. Nov
Do, 28. Nov		17:58–05:26*	11h 28m	AN ₊ bis AN ₋		04:22	14:20	05:25	36m	06:02	37m	06:40	36m	07:16	8h 49m	16:06	36m	16:43	37m	17:21	36m	17:58	15h 11m	11h 28m				Do, 28. Nov
Fr, 29. Nov		17:57–05:27*	11h 30m	AN ₊ bis AN ₋		05:31	14:40	05:26	36m	06:03	37m	06:41	37m	07:18	8h 47m	16:06	37m	16:43	37m	17:20	36m	17:57	15h 13m	11h 30m				Fr, 29. Nov
Sa, 30. Nov		17:57–05:28*	11h 31m	AN ₊ bis AN ₋		06:42	15:06	05:27	36m	06:04	37m	06:42	37m	07:19	8h 46m	16:05	37m	16:42	37m	17:20	36m	17:57	15h 15m	11h 31m				Sa, 30. Nov
So, 1. Dez		17:57–05:29*	11h 32m	AN ₊ bis AN ₋	●	07:53	15:41	05:28	36m	06:05	37m	06:43	37m	07:20	8h 44m	16:05	37m	16:42	37m	17:20	36m	17:57	15h 16m	11h 32m				So, 1. Dez
Mo, 2. Dez		17:56–05:30*	11h 33m	AN ₊ bis AN ₋		08:59	16:27	05:29	37m	06:06	37m	06:44	37m	07:21	8h 42m	16:04	37m	16:42	37m	17:19	37m	17:56	15h 18m	11h 33m				Mo, 2. Dez
Di, 3. Dez		17:56–05:31*	11h 35m	AN ₊ bis AN ₋		09:56	17:26	05:30	37m	06:07	37m	06:45	37m	07:23	8h 41m	16:04	37m	16:41	37m	17:19	37m	17:56	15h 19m	11h 35m				Di, 3. Dez
Mi, 4. Dez		18:36–05:32*	10h 56m	M _\ bis AN ₋		10:41	18:36	05:31	37m	06:08	37m	06:46	37m	07:24	8h 39m	16:04	37m	16:41	37m	17:19	37m	17:56	15h 21m	11h 36m				Mi, 4. Dez
Do, 5. Dez		19:53–05:33*	9h 40m	M _\ bis AN ₋		11:16	19:53	05:32	37m	06:09	37m	06:47	37m	07:25	8h 38m	16:03	37m	16:41	37m	17:19	37m	17:56	15h 22m	11h 37m				Do, 5. Dez
Fr, 6. Dez		21:12–05:34*	8h 21m	M _\ bis AN ₋		11:43	21:12	05:33	37m	06:10	38m	06:48	37m	07:26	8h 37m	16:03	37m	16:41	38m	17:19	37m	17:56	15h 24m	11h 38m				Fr, 6. Dez
Sa, 7. Dez		22:32–05:35*	7h 03m	M _\ bis AN ₋		12:04	22:32	05:34	37m	06:11	38m	06:49	37m	07:27	8h 35m	16:03	37m	16:41	38m	17:19	37m	17:56	15h 25m	11h 39m				Sa, 7. Dez
So, 8. Dez		23:51–05:36*	5h 45m	M _\ bis AN ₋	◒	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
2024/25	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		16:44	09:08	05:41	37m	06:19	38m	06:57	38m	07:35	8h 28m	16:03	38m	16:41	38m	17:20	37m	17:57	15h 32m	11h 44m				Mo, 16. Dez
Di, 17. Dez		17:58 – 17:59	1m	AN ₊ bis M ₇		17:59	09:55	05:42	37m	06:19	38m	06:58	38m	07:36	8h 27m	16:04	38m	16:42	38m	17:20	37m	17:58	15h 32m	11h 44m				Di, 17. Dez
Mi, 18. Dez		17:58 – 19:16	1h 18m	AN ₊ bis M ₇		19:16	10:29	05:42	37m	06:20	38m	06:58	38m	07:36	8h 27m	16:04	38m	16:42	38m	17:21	37m	17:58	15h 32m	11h 45m				Mi, 18. Dez
Do, 19. Dez		17:58 – 20:31	2h 32m	AN ₊ bis M ₇		20:31	10:54	05:43	37m	06:20	38m	06:59	38m	07:37	8h 27m	16:04	38m	16:43	38m	17:21	37m	17:58	15h 33m	11h 45m				Do, 19. Dez
Fr, 20. Dez		17:59 – 21:42	3h 43m	AN ₊ bis M ₇		21:42	11:13	05:44	37m	06:21	38m	06:59	38m	07:38	8h 27m	16:05	38m	16:43	38m	17:21	37m	17:59	15h 33m	11h 45m				Fr, 20. Dez
Sa, 21. Dez		17:59 – 22:50	4h 50m	AN ₊ bis M ₇		22:50	11:28	05:44	37m	06:22	38m	07:00	38m	07:38	8h 27m	16:05	38m	16:43	38m	17:22	37m	17:59	15h 33m	11h 45m				Sa, 21. Dez
So, 22. Dez		18:00 – 23:56	5h 56m	AN ₊ bis M ₇	☉	23:56	11:42	05:45	37m	06:22	38m	07:00	38m	07:39	8h 27m	16:06	38m	16:44	38m	17:22	37m	18:00	15h 33m	11h 45m				So, 22. Dez
Mo, 23. Dez		18:00 – 01:01*	7h 00m	AN ₊ bis M ₇		—:—	11:56	05:45	37m	06:22	38m	07:01	38m	07:39	8h 27m	16:06	38m	16:45	38m	17:23	37m	18:00	15h 32m	11h 45m				Mo, 23. Dez
Di, 24. Dez		18:01 – 02:08*	8h 06m	AN ₊ bis M ₇		01:01	12:09	05:45	37m	06:23	38m	07:01	38m	07:39	8h 27m	16:07	38m	16:45	38m	17:24	37m	18:01	15h 32m	11h 44m				Di, 24. Dez
Mi, 25. Dez		18:02 – 03:16*	9h 14m	AN ₊ bis M ₇		02:08	12:25	05:46	37m	06:23	38m	07:02	38m	07:40	8h 27m	16:08	38m	16:46	38m	17:24	37m	18:02	15h 32m	11h 44m				Mi, 25. Dez
Do, 26. Dez		18:02 – 04:26*	10h 23m	AN ₊ bis M ₇		03:16	12:43	05:46	37m	06:24	38m	07:02	38m	07:40	8h 28m	16:08	38m	16:46	38m	17:25	37m	18:02	15h 31m	11h 44m				Do, 26. Dez
Fr, 27. Dez		18:03 – 05:37*	11h 34m	AN ₊ bis M ₇		04:26	13:06	05:47	37m	06:24	38m	07:02	38m	07:40	8h 28m	16:09	38m	16:47	38m	17:26	37m	18:03	15h 31m	11h 43m				Fr, 27. Dez
Sa, 28. Dez		18:04 – 05:47*	11h 43m	AN ₊ bis AN ₋		05:37	13:37	05:47	37m	06:24	38m	07:02	38m	07:40	8h 29m	16:10	38m	16:48	38m	17:26	37m	18:04	15h 30m	11h 43m				Sa, 28. Dez
So, 29. Dez		18:04 – 05:47*	11h 42m	AN ₊ bis AN ₋		06:46	14:19	05:47	37m	06:24	38m	07:03	37m	07:41	8h 30m	16:11	37m	16:49	38m	17:27	37m	18:04	15h 29m	11h 42m				So, 29. Dez
Mo, 30. Dez		18:05 – 05:47*	11h 42m	AN ₊ bis AN ₋	☉	07:47	15:14	05:47	37m	06:25	38m	07:03	37m	07:41	8h 30m	16:12	37m	16:50	38m	17:28	37m	18:05	15h 29m	11h 42m				Mo, 30. Dez
Di, 31. Dez		18:06 – 05:48*	11h 41m	AN ₊ bis AN ₋		08:38	16:23	05:47	37m	06:25	38m	07:03	37m	07:41	8h 31m	16:13	37m	16:50	38m	17:29	37m	18:06	15h 28m	11h 41m				Di, 31. Dez
Mi, 1. Jan		18:07 – 05:48*	11h 40m	AN ₊ bis AN ₋		09:17	17:40	05:48	37m	06:25	38m	07:03	37m	07:41	8h 32m	16:14	37m	16:51	38m	17:30	37m	18:07	15h 27m	11h 40m				Mi, 1. Jan
Do, 2. Jan		19:00 – 05:48*	10h 47m	M _\ bis AN ₋		09:46	19:00	05:48	37m	06:25	38m	07:03	37m	07:41	8h 33m	16:15	37m	16:52	38m	17:30	37m	18:08	15h 26m	11h 39m				Do, 2. Jan
Fr, 3. Jan		20:21 – 05:48*	9h 26m	M _\ bis AN ₋		10:09	20:21	05:48	37m	06:25	38m	07:03	37m	07:41	8h 34m	16:16	37m	16:53	38m	17:31	37m	18:09	15h 25m	11h 39m				Fr, 3. Jan
Sa, 4. Jan		21:41 – 05:48*	8h 06m	M _\ bis AN ₋		10:28	21:41	05:48	37m	06:25	38m	07:03	37m	07:41	8h 35m	16:17	37m	16:54	38m	17:32	37m	18:10	15h 23m	11h 38m				Sa, 4. Jan
So, 5. Jan		23:00 – 05:48*	6h 47m	M _\ bis AN ₋		10:45	23:00	05:48	37m	06:25	38m	07:03	37m	07:40	8h 37m	16:18	37m	16:55	38m	17:33	37m	18:10	15h 22m	11h 37m				So, 5. Jan
Mo, 6. Jan		00:19* – 05:47*	5h 28m	M _\ bis AN ₋		11:02	—:—	05:48	37m	06:25	37m	07:03	37m	07:40	8h 38m	16:19	37m	16:56	37m	17:34	37m	18:11	15h 21m	11h 36m				Mo, 6. Jan
Di, 7. Jan		01:40* – 05:47*	4h 07m	M _\ bis AN ₋	☉	11:19	00:19	05:47	37m	06:25	37m	07:02	37m	07:40	8h 40m	16:20	37m	16:57	37m	17:35	37m	18:12	15h 19m	11h 34m				Di, 7. Jan
Mi, 8. Jan		03:04* – 05:47*	2h 43m	M _\ bis AN ₋		11:40	01:40	05:47	37m	06:24	37m	07:02	37m	07:40	8h 41m	16:21	37m	16:58	37m	17:36	37m	18:13	15h 18m	11h 33m				Mi, 8. Jan
Do, 9. Jan		04:27* – 05:47*	1h 19m	M _\ bis AN ₋		12:05	03:04	05:47	37m	06:24	37m	07:02	37m	07:39	8h 43m	16:22	37m	17:00	37m	17:37	37m	18:14	15h 16m	11h 32m				Do, 9. Jan
Fr, 10. Jan		05:46* – 05:47*	0m	M _\ bis AN ₋		12:39	04:27	05:47	36m	06:24	37m	07:02	37m	07:39	8h 44m	16:24	37m	17:01	37m	17:38	36m	18:15	15h 14m	11h 31m				Fr, 10. Jan
Sa, 11. Jan		—:—:—:—	—	Mond stört		13:25	05:46	05:47	36m	06:24	37m	07:01	37m	07:38	8h 46m	16:25	37m	17:02	37m	17:40	36m	18:17	15h 13m	11h 29m				Sa, 11. Jan
So, 12. Jan		—:—:—:—	—	Mond stört		14:24	06:54	05:46	36m	06:23	37m	07:01	37m	07:38	8h 48m	16:26	37m	17:03	37m	17:41	36m	18:18	15h 11m	11h 28m				So, 12. Jan
Mo, 13. Jan		—:—:—:—	—	Mond stört	☉	15:35	07:47	05:46	36m	06:23	37m	07:00	36m	07:37	8h 50m	16:27	36m	17:04	37m	17:42	36m	18:19	15h 09m	11h 26m				Mo, 13. Jan
Di, 14. Jan		—:~:~:~:~	~	Mond stört		16:52	08:26	05:46	36m	06:22	37m	07:00	36m	07:37	8h 52m	16:29	36m	17:06	37m	17:43	36m	18:20	15h 07m	11h 25m				Di, 14. Jan
Mi, 15. Jan		—:~:~:~:~	~	Mond stört		18:09	08:54	05:45	36m	06:22	37m	06:59	36m	07:36	8h 54m	16:30	36m	17:07	37m	17:44	36m	18:21	15h 05m	11h 23m				Mi, 15. Jan
Do, 16. Jan		18:22 – 19:23	1h 00m	AN ₊ bis M ₇		19:23	09:15	05:45	36m	06:21	37m	06:59	36m	07:35	8h 56m	16:31	36m	17:08	37m	17:45	36m	18:22	15h 03m	11h 22m				Do, 16. Jan
Fr, 17. Jan		18:23 – 20:33	2h 09m	AN ₊ bis M ₇		20:33	09:32	05:44	36m	06:21	37m	06:58	36m	07:35	8h 58m	16:33	36m	17:09	37m	17:47	36m	18:23	15h 01m	11h 20m				Fr, 17. Jan
Sa, 18. Jan		18:25 – 21:41	3h 16m	AN ₊ bis M ₇		21:41	09:47	05:44	36m	06:20	37m	06:57	36m	07:34	9h 00m	16:34	36m	17:11	37m	17:48	36m	18:25	14h 58m	11h 18m				Sa, 18. Jan
So, 19. Jan		18:26 – 22:47	4h 20m	AN ₊ bis M ₇		22:47	10:01	05:43	36m	06:20	37m	06:57	36m	07:33	9h 02m	16:36	36m	17:12	37m	17:49	36m	18:26	14h 56m	11h 16m				So, 19. Jan
Mo, 20. Jan		18:27 – 23:53	5h 25m	AN ₊ bis M ₇		23:53	10:14	05:43	36m	06:19	37m	06:56	36m	07:32	9h 04m	16:37	36m	17:13	37m	17:50	36m	18:27	14h 54m	11h 14m				Mo, 20. Jan
Di, 21. Jan		18:28 – 01:00*	6h 31m	AN ₊ bis M ₇	☉	—:~	10:29	05:42	36m	06:18	36m	06:55	36m	07:31	9h 07m	16:39	36m	17:15	36m	17:52	36m	18:28	14h 51m	11h 13m				Di, 21. Jan
Mi, 22. Jan		18:29 – 02:09*	7h 39m	AN ₊ bis M ₇		01:00	10:45	05:41	36m	06:18	36m	06:54	35m	07:30	9h 09m	16:40	36m	17:16	36m	17:53	36m	18:29	14h 49m	11h 11m				Mi, 22. Jan
Do, 23. Jan		18:31 – 03:19*	8h 48m	AN ₊ bis M ₇		02:09	11:06	05:40	36m	06:17	36m	06:54	35m	07:29	9h 12m	16:42	35m	17:17	36m	17:54	36m	18:31	14h 46m	11h 09m				Do, 23. Jan
Fr, 24. Jan		18:32 – 04:29*	9h 56m	AN ₊ bis M ₇		03:19	11:33	05:40	36m	06:16	36m	06:53	35m	07:28	9h 14m	16:43	35m	17:19	36m	17:56	36m	18:32	14h 44m	11h 06m				Fr, 24. Jan
Sa, 25. Jan		18:33 – 05:34*	11h 00m	AN ₊ bis M ₇		04:29	12:10	05:39	36m	06:15	36m	06:52	35m	07:27	9h 17m	16:45	35m	17:20	36m	17:57	36m	18:33	14h 41m	11h 04m				Sa, 25. Jan
So, 26. Jan		18:34 – 05:37*	11h 02m	AN ₊ bis AN ₋		05:34	12:59	05:38	36m	06:14	36m	06:51	35m	07:26	9h 19m	16:46	35m	17:22	36m	17:58	36m	18:34	14h 39m	11h 02m				So, 26. Jan
Mo, 27. Jan		18:3																										