

Zeitgleichung [min:s]

Zeitgleichung = wahre Ortszeit (WOZ) - mittlere Ortszeit (MOZ)

| | Jan | Feb | Mär | Apr | Mai | Jun | Jul | Aug | Sep | Okt | Nov | Dez |
|-----|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 1. | - 3:25 | -13:32 | -12:23 | - 3:58 | + 2:51 | + 2:12 | - 3:49 | - 6:22 | - 0:06 | +10:15 | +16:25 | +11:07 |
| 2. | - 3:53 | -13:39 | -12:12 | - 3:41 | + 2:58 | + 2:02 | - 4:01 | - 6:18 | + 0:13 | +10:34 | +16:27 | +10:44 |
| 3. | - 4:21 | -13:46 | -11:59 | - 3:23 | + 3:05 | + 1:53 | - 4:12 | - 6:14 | + 0:33 | +10:53 | +16:27 | +10:21 |
| 4. | - 4:49 | -13:53 | -11:47 | - 3:06 | + 3:10 | + 1:42 | - 4:23 | - 6:09 | + 0:52 | +11:12 | +16:27 | + 9:57 |
| 5. | - 5:16 | -13:58 | -11:34 | - 2:48 | + 3:16 | + 1:32 | - 4:34 | - 6:03 | + 1:12 | +11:30 | +16:26 | + 9:33 |
| 6. | - 5:43 | -14:03 | -11:20 | - 2:31 | + 3:20 | + 1:21 | - 4:44 | - 5:57 | + 1:32 | +11:48 | +16:24 | + 9:08 |
| 7. | - 6:09 | -14:06 | -11:06 | - 2:14 | + 3:25 | + 1:10 | - 4:54 | - 5:50 | + 1:53 | +12:06 | +16:21 | + 8:42 |
| 8. | - 6:35 | -14:09 | -10:52 | - 1:58 | + 3:28 | + 0:59 | - 5:04 | - 5:42 | + 2:13 | +12:23 | +16:18 | + 8:16 |
| 9. | - 7:00 | -14:12 | -10:37 | - 1:41 | + 3:31 | + 0:47 | - 5:13 | - 5:34 | + 2:34 | +12:40 | +16:13 | + 7:50 |
| 10. | - 7:25 | -14:13 | -10:22 | - 1:25 | + 3:34 | + 0:35 | - 5:22 | - 5:25 | + 2:55 | +12:56 | +16:08 | + 7:23 |
| 11. | - 7:49 | -14:14 | -10:06 | - 1:09 | + 3:36 | + 0:23 | - 5:30 | - 5:16 | + 3:16 | +13:12 | +16:02 | + 6:56 |
| 12. | - 8:12 | -14:13 | - 9:51 | - 0:53 | + 3:37 | + 0:11 | - 5:38 | - 5:06 | + 3:37 | +13:27 | +15:55 | + 6:28 |
| 13. | - 8:35 | -14:12 | - 9:34 | - 0:38 | + 3:38 | - 0:01 | - 5:45 | - 4:56 | + 3:59 | +13:42 | +15:48 | + 6:00 |
| 14. | - 8:57 | -14:11 | - 9:18 | - 0:23 | + 3:38 | - 0:14 | - 5:52 | - 4:44 | + 4:20 | +13:57 | +15:39 | + 5:32 |
| 15. | - 9:19 | -14:08 | - 9:01 | - 0:08 | + 3:38 | - 0:27 | - 5:58 | - 4:33 | + 4:42 | +14:10 | +15:29 | + 5:03 |
| 16. | - 9:40 | -14:05 | - 8:44 | + 0:06 | + 3:37 | - 0:39 | - 6:04 | - 4:21 | + 5:03 | +14:24 | +15:19 | + 4:34 |
| 17. | -10:00 | -14:01 | - 8:27 | + 0:20 | + 3:36 | - 0:52 | - 6:09 | - 4:08 | + 5:25 | +14:36 | +15:08 | + 4:05 |
| 18. | -10:19 | -13:56 | - 8:10 | + 0:34 | + 3:34 | - 1:05 | - 6:14 | - 3:55 | + 5:46 | +14:48 | +14:56 | + 3:36 |
| 19. | -10:38 | -13:51 | - 7:52 | + 0:48 | + 3:31 | - 1:18 | - 6:18 | - 3:41 | + 6:08 | +15:00 | +14:43 | + 3:06 |
| 20. | -10:56 | -13:45 | - 7:35 | + 1:00 | + 3:28 | - 1:31 | - 6:22 | - 3:27 | + 6:29 | +15:11 | +14:29 | + 2:37 |
| 21. | -11:13 | -13:38 | - 7:17 | + 1:13 | + 3:25 | - 1:44 | - 6:25 | - 3:13 | + 6:50 | +15:21 | +14:15 | + 2:07 |
| 22. | -11:30 | -13:31 | - 6:59 | + 1:25 | + 3:21 | - 1:57 | - 6:28 | - 2:58 | + 7:12 | +15:30 | +14:00 | + 1:37 |
| 23. | -11:45 | -13:23 | - 6:41 | + 1:37 | + 3:16 | - 2:10 | - 6:30 | - 2:42 | + 7:33 | +15:39 | +13:43 | + 1:07 |
| 24. | -12:00 | -13:14 | - 6:23 | + 1:48 | + 3:11 | - 2:23 | - 6:31 | - 2:26 | + 7:54 | +15:47 | +13:26 | + 0:37 |
| 25. | -12:14 | -13:05 | - 6:05 | + 1:58 | + 3:05 | - 2:36 | - 6:32 | - 2:10 | + 8:14 | +15:55 | +13:09 | + 0:07 |
| 26. | -12:28 | -12:56 | - 5:46 | + 2:08 | + 2:59 | - 2:48 | - 6:32 | - 1:53 | + 8:35 | +16:01 | +12:50 | - 0:23 |
| 27. | -12:40 | -12:45 | - 5:28 | + 2:18 | + 2:52 | - 3:01 | - 6:32 | - 1:36 | + 8:56 | +16:07 | +12:31 | - 0:52 |
| 28. | -12:52 | -12:35 | - 5:10 | + 2:27 | + 2:45 | - 3:13 | - 6:31 | - 1:19 | + 9:16 | +16:12 | +12:11 | - 1:22 |
| 29. | -13:03 | | - 4:52 | + 2:36 | + 2:38 | - 3:26 | - 6:30 | - 1:01 | + 9:36 | +16:17 | +11:50 | - 1:51 |
| 30. | -13:13 | | - 4:34 | + 2:44 | + 2:29 | - 3:38 | - 6:28 | - 0:43 | + 9:56 | +16:20 | +11:29 | - 2:21 |
| 31. | -13:23 | | - 4:16 | | + 2:21 | | - 6:25 | - 0:25 | | +16:23 | | - 2:50 |

(berechnet für das Jahr 2019 jeweils um 12 Uhr MEZ)

Berechnung der mitteleuropäischen Zeit (MEZ) aus der wahren Ortszeit (WOZ)

$MEZ = WOZ + (15^\circ - \text{östliche Länge } [^\circ]) \times 4 \text{ min}/^\circ - \text{Zeitgleichung } [\text{min}]$

Beispiel: Am 5. August 2019 zeigt eine Sonnenuhr in München (11,5° O) 10 Uhr WOZ an. Wieviel Uhr ist es auf der Armbanduhr?

$MEZ = 10:00 \text{ Uhr} + (15^\circ - 11,5^\circ) \times 4 \text{ min}/^\circ - (-6:03 \text{ min})$ MEZ = 10:20:03 Uhr MEZ = 11:20:03 Uhr MESZ (Sommerzeit)

HELIOS (EK)

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