



## Mars - Zentralmeridiane im November 2022 (in UT, $\Delta T = 70$ s)

Diese Tabelle beginnt an dem jeweiligen Tag um 16 Uhr und endet am folgenden Tag um 6 Uhr.

Zentralmeridiane werden aufgelistet, wenn sich Mars über dem Horizont und die Sonne sich mindestens  $6^\circ$  unter dem Horizont befindet (berechnet für einen Beobachtungsort auf  $10^\circ$  östliche Länge und  $50^\circ$  nördliche Breite).

| Tag UT  | 16 | 17    | 18    | 19    | 20    | 21    | 22    | 23    | 0     | 1     | 2     | 3     | 4     | 5     | 6     |
|---------|----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0 / 1   |    |       |       | 62.7  | 77.3  | 92.0  | 106.6 | 121.2 | 135.8 | 150.4 | 165.1 | 179.7 | 194.3 | 208.9 |       |
| 1 / 2   |    |       |       | 53.6  | 68.2  | 82.9  | 97.5  | 112.1 | 126.7 | 141.4 | 156.0 | 170.6 | 185.2 | 199.8 |       |
| 2 / 3   |    |       |       | 44.5  | 59.2  | 73.8  | 88.4  | 103.0 | 117.6 | 132.3 | 146.9 | 161.5 | 176.1 | 190.8 |       |
| 3 / 4   |    |       |       | 35.5  | 50.1  | 64.7  | 79.3  | 94.0  | 108.6 | 123.2 | 137.8 | 152.4 | 167.1 | 181.7 |       |
| 4 / 5   |    |       |       | 26.4  | 41.0  | 55.7  | 70.3  | 84.9  | 99.5  | 114.1 | 128.8 | 143.4 | 158.0 | 172.6 |       |
| 5 / 6   |    |       |       | 17.4  | 32.0  | 46.6  | 61.2  | 75.9  | 90.5  | 105.1 | 119.7 | 134.3 | 149.0 | 163.6 |       |
| 6 / 7   |    |       |       | 8.3   | 22.9  | 37.6  | 52.2  | 66.8  | 81.4  | 96.1  | 110.7 | 125.3 | 139.9 | 154.6 |       |
| 7 / 8   |    |       |       | 359.3 | 13.9  | 28.6  | 43.2  | 57.8  | 72.4  | 87.0  | 101.7 | 116.3 | 130.9 | 145.5 |       |
| 8 / 9   |    |       |       | 350.3 | 4.9   | 19.5  | 34.2  | 48.8  | 63.4  | 78.0  | 92.7  | 107.3 | 121.9 | 136.5 | 151.2 |
| 9 / 10  |    |       | 326.7 | 341.3 | 355.9 | 10.5  | 25.2  | 39.8  | 54.4  | 69.1  | 83.7  | 98.3  | 112.9 | 127.6 | 142.2 |
| 10 / 11 |    |       | 317.7 | 332.3 | 346.9 | 1.6   | 16.2  | 30.8  | 45.4  | 60.1  | 74.7  | 89.3  | 103.9 | 118.6 | 133.2 |
| 11 / 12 |    |       | 308.7 | 323.3 | 338.0 | 352.6 | 7.2   | 21.8  | 36.5  | 51.1  | 65.7  | 80.4  | 95.0  | 109.6 | 124.2 |
| 12 / 13 |    |       | 299.8 | 314.4 | 329.0 | 343.6 | 358.3 | 12.9  | 27.5  | 42.1  | 56.8  | 71.4  | 86.0  | 100.7 | 115.3 |
| 13 / 14 |    |       | 290.8 | 305.4 | 320.1 | 334.7 | 349.3 | 3.9   | 18.6  | 33.2  | 47.8  | 62.5  | 77.1  | 91.7  | 106.3 |
| 14 / 15 |    |       | 281.9 | 296.5 | 311.1 | 325.8 | 340.4 | 355.0 | 9.6   | 24.3  | 38.9  | 53.5  | 68.2  | 82.8  | 97.4  |
| 15 / 16 |    |       | 273.0 | 287.6 | 302.2 | 316.8 | 331.5 | 346.1 | 0.7   | 15.4  | 30.0  | 44.6  | 59.2  | 73.9  | 88.5  |
| 16 / 17 |    |       | 264.0 | 278.7 | 293.3 | 307.9 | 322.6 | 337.2 | 351.8 | 6.4   | 21.1  | 35.7  | 50.3  | 65.0  | 79.6  |
| 17 / 18 |    |       | 255.1 | 269.8 | 284.4 | 299.0 | 313.7 | 328.3 | 342.9 | 357.5 | 12.2  | 26.8  | 41.4  | 56.1  | 70.7  |
| 18 / 19 |    |       | 246.3 | 260.9 | 275.5 | 290.1 | 304.8 | 319.4 | 334.0 | 348.7 | 3.3   | 17.9  | 32.5  | 47.2  | 61.8  |
| 19 / 20 |    |       | 237.4 | 252.0 | 266.6 | 281.3 | 295.9 | 310.5 | 325.2 | 339.8 | 354.4 | 9.0   | 23.7  | 38.3  | 52.9  |
| 20 / 21 |    |       | 228.5 | 243.1 | 257.8 | 272.4 | 287.0 | 301.7 | 316.3 | 330.9 | 345.5 | 0.2   | 14.8  | 29.4  | 44.1  |
| 21 / 22 |    | 205.0 | 219.6 | 234.3 | 248.9 | 263.5 | 278.2 | 292.8 | 307.4 | 322.1 | 336.7 | 351.3 | 6.0   | 20.6  | 35.2  |
| 22 / 23 |    | 196.2 | 210.8 | 225.4 | 240.1 | 254.7 | 269.3 | 284.0 | 298.6 | 313.2 | 327.8 | 342.5 | 357.1 | 11.7  | 26.4  |
| 23 / 24 |    | 187.3 | 202.0 | 216.6 | 231.2 | 245.8 | 260.5 | 275.1 | 289.7 | 304.4 | 319.0 | 333.6 | 348.3 | 2.9   | 17.5  |
| 24 / 25 |    | 178.5 | 193.1 | 207.8 | 222.4 | 237.0 | 251.7 | 266.3 | 280.9 | 295.5 | 310.2 | 324.8 | 339.4 | 354.1 | 8.7   |
| 25 / 26 |    | 169.7 | 184.3 | 198.9 | 213.6 | 228.2 | 242.8 | 257.5 | 272.1 | 286.7 | 301.4 | 316.0 | 330.6 | 345.3 | 359.9 |
| 26 / 27 |    | 160.8 | 175.5 | 190.1 | 204.7 | 219.4 | 234.0 | 248.6 | 263.3 | 277.9 | 292.5 | 307.2 | 321.8 | 336.4 | 351.1 |
| 27 / 28 |    | 152.0 | 166.7 | 181.3 | 195.9 | 210.6 | 225.2 | 239.8 | 254.5 | 269.1 | 283.7 | 298.4 | 313.0 | 327.6 | 342.3 |
| 28 / 29 |    | 143.2 | 157.9 | 172.5 | 187.1 | 201.8 | 216.4 | 231.0 | 245.7 | 260.3 | 274.9 | 289.6 | 304.2 | 318.8 | 333.5 |
| 29 / 30 |    | 134.4 | 149.1 | 163.7 | 178.3 | 193.0 | 207.6 | 222.2 | 236.9 | 251.5 | 266.1 | 280.8 | 295.4 | 310.0 | 324.7 |
| 30 / 31 |    | 125.6 | 140.3 | 154.9 | 169.5 | 184.2 | 198.8 | 213.4 | 228.1 | 242.7 | 257.3 | 272.0 | 286.6 | 301.2 | 315.9 |

Änderung:  $0.2437^\circ$  / Minute  
(Näherungswert, geringe Abweichungen möglich, wenn sich Mars in Erdnähe befindet.)