# Solar Eclipses in Berlin (Germany)

08.05.2010

D T: Morrison and Stephenson (2004)

Times in local time

| Date | Saros | delta T | Mag. | First contact | Second contact | Maximum eclipse | Third contact | Fourth contact | Duration | Duration tot./ann. |
|---|---|---|---|---|---|---|---|---|---|---|
| 1999-08-11 | 145 | 0:01:04 | 0,893 P | 10:21:17 46,9° | | 11:39:58 52,3° | | 12:59:18 51,6° | 2:38:01 | |
| 2003-05-31 | 147 | 0:01:05 | 0,869 P | 03:32:29 -3,0° | | 04:28:21 3,8° | | 05:27:18 11,9° | (1:54:50) | |
| 2005-10-03 | 134 | 0:01:05 | 0,502 P | 09:02:50 22,8° | | 10:13:22 29,4° | | 11:27:18 33,1° | 2:24:28 | |
| 2006-03-29 | 139 | 0:01:05 | 0,434 P | 10:50:51 38,1° | | 11:49:15 40,7° | | 12:48:03 40,3° | 1:57:12 | |
| 2008-08-01 | 126 | 0:01:06 | 0,300 P | 09:44:07 44,8° | | 10:38:04 50,7° | | 11:33:03 54,5° | 1:48:56 | |
| 2011-01-04 | 151 | 0:01:06 | 0,808 P | 08:07:56 -1,9° | | 09:26:55 6,7° | | 10:52:32 12,8° | (2:44:37) | |
| 2015-03-20 | 120 | 0:01:08 | 0,788 P | 09:38:43 28,1° | | 10:47:20 34,2° | | 11:58:29 37,2° | 2:19:46 | |
| 2021-06-10 | 147 | 0:01:11 | 0,240 P | 10:36:23 55,9° | | 11:38:45 60,1° | | 12:43:05 59,7° | 2:06:42 | |
| 2022-10-25 | 124 | 0:01:12 | 0,437 P | 10:09:47 21,8° | | 11:13:52 24,8° | | 12:19:18 25,0° | 2:09:32 | |
| 2025-03-29 | 149 | 0:01:15 | 0,257 P | 11:32:17 40,4° | | 12:19:35 41,0° | | 13:07:05 39,7° | 1:34:49 | |
| 2026-08-12 | 126 | 0:01:17 | 0,874 P | 18:15:23 11,1° | | 19:08:19 3,3° | | 19:58:50 -3,6° | (1:43:27) | |
| 2027-08-02 | 136 | 0:01:18 | 0,447 P | 09:17:20 41,3° | | 10:13:45 48,2° | | 11:11:47 53,2° | 1:54:27 | |
| 2029-06-12 | 118 | 0:01:20 | 0,170 P | 03:27:32 -2,6° | | 03:57:45 0,8° | | 04:28:45 4,7° | (1:01:14) | |
| 2030-06-01 | 128 | 0:01:21 | 0,664 P | 05:19:58 10,9° | | 06:21:53 20,0° | | 07:29:17 30,2° | 2:09:19 | |
| 2034-03-20 | 130 | 0:01:26 | 0,079 P | 11:10:11 35,8° | | 11:39:08 36,9° | | 12:08:09 37,4° | 0:57:59 | |
| 2036-08-21 | 155 | 0:01:29 | 0,728 P | 18:12:51 8,8° | | 19:02:38 1,4° | | 19:50:08 -5,3° | (1:37:17) | |
| 2037-01-16 | 122 | 0:01:29 | 0,631 P | 09:01:42 5,4° | | 10:25:11 12,8° | | 11:54:26 16,5° | 2:52:44 | |
| 2038-01-05 | 132 | 0:01:30 | 0,197 P | 15:01:10 6,4° | | 15:47:42 1,5° | | 16:31:41 -3,8° | (1:30:32) | |
| 2038-07-02 | 137 | 0:01:31 | 0,058 P | 14:50:16 47,7° | | 15:16:29 44,1° | | 15:42:03 40,4° | 0:51:47 | |
| 2039-06-21 | 147 | 0:01:32 | 0,828 P | 18:27:12 15,6° | | 19:29:01 7,1° | | 20:26:48 -0,1° | (1:59:36) | |
| 2048-06-11 | 128 | 0:01:43 | 0,808 P | 13:10:51 58,1° | | 14:41:33 48,4° | | 16:03:35 36,7° | 2:52:44 | |
| 2050-11-14 | 153 | 0:01:46 | 0,788 P | 13:40:06 15,3° | | 15:03:58 7,7° | | 16:20:28 -1,6° | (2:40:22) | |
| 2053-09-12 | 145 | 0:01:50 | 0,463 P | 08:27:51 24,5° | | 09:27:01 31,8° | | 10:29:20 37,7° | 2:01:29 | |
| 2059-11-05 | 134 | 0:01:58 | 0,649 P | 07:34:08 2,4° | | 08:45:09 11,0° | | 10:02:13 17,9° | 2:28:05 | |
| 2060-04-30 | 139 | 0:01:59 | 0,347 P | 10:38:00 48,9° | | 11:30:42 52,0° | | 12:24:20 52,3° | 1:46:20 | |
| 2065-02-05 | 151 | 0:02:05 | 0,769 P | 09:48:40 14,3° | | 11:10:41 20,1° | | 12:34:18 21,7° | 2:45:38 | |
| 2066-06-22 | 128 | 0:02:07 | 0,620 P | 20:10:19 1,9° | | 21:02:38 -4,0° | | 21:53:02 -8,5° | (1:42:43) | |
| 2069-04-21 | 120 | 0:02:11 | 0,256 P | 10:18:42 44,3° | | 11:05:58 47,9° | | 11:54:25 49,6° | 1:35:44 | |
| 2072-09-12 | 155 | 0:02:15 | 0,298 P | 08:04:57 21,2° | | 08:51:08 27,4° | | 09:39:22 33,0° | 1:34:25 | |
| 2075-07-13 | 147 | 0:02:19 | 0,856 P | 04:46:00 5,0° | | 05:47:45 13,5° | | 06:54:46 23,5° | 2:08:46 | |
| 2076-11-26 | 124 | 0:02:21 | 0,626 P | 11:04:09 15,6° | | 12:21:37 16,1° | | 13:39:05 12,9° | 2:34:57 | |

| Date | Saros | delta T | Mag. | First contact | Second contact | Maximum eclipse | Third contact | Fourth contact | Duration | Duration tot./ann. |
|---|---|---|---|---|---|---|---|---|---|---|
| 2078-05-11 | 139 | 0:02:23 | 0,195 P | 19:41:32 0,3° | | 20:10:45 -3,4° | | 20:39:18 -6,8° | (0:57:46) | |
| 2079-05-01 | 149 | 0:02:25 | 0,321 P | 11:15:36 51,5° | | 12:08:36 52,7° | | 13:02:18 50,9° | 1:46:43 | |
| 2080-09-13 | 126 | 0:02:27 | 0,848 P | 16:55:05 12,7° | | 17:52:17 4,0° | | 18:46:23 -4,2° | (1:51:18) | |
| 2081-09-03 | 136 | 0:02:28 | 0,852 P | 07:44:27 20,6° | | 08:46:45 29,4° | | 09:52:23 37,2° | 2:07:56 | |
| 2082-02-27 | 141 | 0:02:29 | 0,804 P | 16:20:12 10,8° | | 17:31:48 0,7° | | 18:38:00 -9,2° | (2:17:48) | |
| 2088-04-21 | 130 | 0:02:38 | 0,592 P | 10:34:29 45,8° | | 11:42:19 49,5° | | 12:51:13 48,7° | 2:16:44 | |
| 2090-09-23 | 155 | 0:02:41 | 0,983 P | 17:33:34 3,4° | | 18:28:15 -4,9° | | 19:19:58 -12,6° | (1:46:24) | |
| 2091-02-18 | 122 | 0:02:42 | 0,519 P | 09:31:31 16,5° | | 10:50:09 23,1° | | 12:12:21 26,0° | 2:40:50 | |
| 2092-02-07 | 132 | 0:02:43 | 0,599 P | 16:32:15 3,4° | | 17:32:52 -5,0° | | 18:29:21 -13,3° | (1:57:06) | |
| 2093-07-23 | 147 | 0:02:45 | 0,956 A | 12:16:07 57,3° | 13:48:50 52,4° | 13:50:48 52,2° | 13:52:47 52,0° | 15:18:28 41,6° | 3:02:21 | 03:56 |
| 2102-07-15 | 128 | 0:02:59 | 0,230 P | 06:54:11 23,2° | | 07:43:30 30,7° | | 08:36:29 38,6° | 1:42:19 | |
| 2103-07-04 | 138 | 0:03:01 | 0,404 P | 09:06:42 44,3° | | 10:14:18 53,0° | | 11:25:16 59,1° | 2:18:35 | |
| 2104-12-17 | 153 | 0:03:03 | 0,641 P | 14:30:38 7,5° | | 15:47:42 -0,3° | | 16:57:46 -9,2° | (2:27:07) | |
| 2107-10-16 | 145 | 0:03:07 | 0,026 P | 08:47:01 17,2° | | 09:02:42 18,9° | | 09:18:32 20,6° | 0:31:30 | |
| 2113-12-08 | 134 | 0:03:17 | 0,507 P | 07:32:57 -4,6° | | 08:41:03 3,5° | | 09:55:44 10,2° | (2:22:47) | |
| 2119-03-11 | 151 | 0:03:25 | 0,610 P | 10:34:14 29,6° | | 11:48:50 33,3° | | 13:04:12 32,8° | 2:29:58 | |
| 2120-07-25 | 128 | 0:03:28 | 0,600 P | 15:03:24 43,4° | | 16:15:16 33,2° | | 17:21:06 23,2° | 2:17:42 | |
| 2126-10-16 | 155 | 0:03:38 | 0,774 P | 08:03:03 11,7° | | 09:06:24 19,2° | | 10:13:36 25,1° | 2:10:33 | |
| 2128-03-01 | 132 | 0:03:40 | 0,128 P | 07:40:49 6,3° | | 08:15:18 11,0° | | 08:51:09 15,7° | 1:10:20 | |
| 2130-12-30 | 124 | 0:03:45 | 0,555 P | 13:16:47 12,9° | | 14:32:00 8,1° | | 15:42:15 1,2° | 2:25:28 | |
| 2133-06-03 | 149 | 0:03:49 | 0,716 P | 09:18:36 46,3° | | 10:25:12 54,3° | | 11:35:32 59,3° | 2:16:56 | |
| 2135-10-07 | 136 | 0:03:53 | 1,003 T | 07:31:14 10,0° | 08:32:26 18,1° | 08:33:08 18,2° | 08:33:51 18,3° | 09:38:35 25,3° | 2:07:21 | 01:25 |
| 2136-04-01 | 141 | 0:03:54 | 0,642 P | 14:43:43 32,8° | | 15:59:43 23,2° | | 17:10:11 12,9° | 2:26:27 | |
| 2141-06-04 | 120 | 0:04:03 | 0,029 P | 19:00:51 9,7° | | 19:12:35 8,1° | | 19:24:16 6,5° | 0:23:25 | |
| 2142-05-25 | 130 | 0:04:04 | 0,987 P | 08:49:36 41,3° | | 10:00:41 50,6° | | 11:16:20 57,2° | 2:26:44 | |
| 2145-03-23 | 122 | 0:04:09 | 0,277 P | 08:51:44 23,9° | | 09:48:43 30,5° | | 10:48:53 35,7° | 1:57:09 | |
| 2146-03-12 | 132 | 0:04:11 | 0,839 P | 17:22:58 5,5° | | 18:23:29 -3,6° | | 19:20:08 -12,2° | (1:57:09) | |
| 2147-08-26 | 147 | 0:04:14 | 0,569 P | 06:31:13 11,7° | | 07:37:59 21,8° | | 08:51:09 32,3° | 2:19:56 | |
| 2148-08-14 | 157 | 0:04:15 | 0,064 P | 08:42:08 33,7° | | 09:12:03 37,8° | | 09:42:52 41,6° | 1:00:45 | |
| 2151-06-14 | 149 | 0:04:20 | 0,921 P | 18:27:51 15,2° | | 19:20:52 7,8° | | 20:11:08 1,4° | 1:43:17 | |
| 2157-08-05 | 138 | 0:04:31 | 0,759 P | 04:35:35 -0,5° | | 05:33:55 7,6° | | 06:36:37 16,9° | (2:01:02) | |
| 2159-01-19 | 153 | 0:04:34 | 0,311 P | 15:48:23 4,0° | | 16:43:56 -2,9° | | 17:35:58 -10,0° | (1:47:36) | |
| 2160-06-04 | 130 | 0:04:37 | 0,810 P | 18:03:11 18,0° | | 18:57:04 10,3° | | 19:48:00 3,5° | 1:44:49 | |
| 2166-08-25 | 157 | 0:04:48 | 0,825 P | 16:47:03 20,7° | | 17:53:36 10,6° | | 18:55:09 1,4° | 2:08:05 | |

| Date | Saros | delta T | Mag. | First contact | Second contact | Maximum eclipse | Third contact | Fourth contact | Duration | Duration tot./ann. |
|---|---|---|---|---|---|---|---|---|---|---|
| 2168-01-10 | 134 | 0:04:51 | 0,308 P | 08:23:45 0,4° | | 09:27:02 7,2° | | 10:35:36 12,5° | 2:11:50 | |
| 2173-04-12 | 151 | 0:05:01 | 0,707 P | 09:45:57 37,8° | | 10:58:58 44,2° | | 12:15:02 46,4° | 2:29:05 | |
| 2175-08-16 | 138 | 0:05:05 | 0,548 P | 12:41:12 50,6° | | 13:55:05 45,9° | | 15:05:14 38,0° | 2:24:02 | |
| 2179-06-05 | 140 | 0:05:12 | 0,060 P | 11:30:38 59,3° | | 12:00:10 60,0° | | 12:29:41 59,7° | 0:59:03 | |
| 2180-11-17 | 155 | 0:05:15 | 0,729 P | 09:49:58 13,6° | | 11:00:08 17,5° | | 12:12:38 18,1° | 2:22:41 | |
| 2182-04-03 | 132 | 0:05:18 | 0,406 P | 07:35:21 17,2° | | 08:29:46 25,0° | | 09:27:37 32,4° | 1:52:16 | |
| 2185-01-31 | 124 | 0:05:23 | 0,149 P | 15:46:11 7,3° | | 16:25:15 2,5° | | 17:02:38 -2,4° | (1:16:27) | |
| 2187-07-06 | 149 | 0:05:28 | 0,812 P | 06:56:12 24,5° | | 07:56:10 33,6° | | 09:00:46 43,1° | 2:04:34 | |
| 2189-11-08 | 136 | 0:05:33 | 0,760 P | 08:39:20 9,4° | | 09:43:40 15,5° | | 10:51:39 19,6° | 2:12:19 | |
| 2190-05-04 | 141 | 0:05:34 | 0,180 P | 11:43:44 53,4° | | 12:34:39 53,1° | | 13:25:33 50,2° | 1:41:50 | |
| 2191-04-23 | 151 | 0:05:36 | 0,488 P | 19:07:59 0,8° | | 19:56:19 -5,9° | | 20:42:29 -11,7° | (1:34:30) | |
| 2192-04-12 | 161 | 0:05:38 | 0,005 P | 07:07:52 16,3° | | 07:13:42 17,2° | | 07:19:25 18,1° | 0:11:33 | |
| 2192-09-06 | 128 | 0:05:38 | 0,421 P | 17:24:45 10,8° | | 18:19:21 2,5° | | 19:10:57 -5,2° | (1:46:12) | |
| 2195-02-10 | 153 | 0:05:43 | 0,942 A | 05:53:26 -15,4° | 07:00:20 -5,4° | 07:03:12 -5,0° | 07:06:05 -4,5° | 08:19:45 5,6° | (2:26:19) | (05:45) |
| 2196-06-26 | 130 | 0:05:46 | 0,545 P | 06:23:35 20,3° | | 07:17:45 28,5° | | 08:15:55 37,3° | 1:52:20 | |
| 2199-04-25 | 122 | 0:05:52 | 0,022 P | 07:11:50 20,7° | | 07:26:15 22,9° | | 07:40:47 25,0° | 0:28:57 | |
| 2200-04-14 | 132 | 0:05:54 | 1,001 T | 17:08:54 16,3° | 18:10:13 7,0° | 18:10:20 7,0° | 18:10:26 7,0° | 19:07:38 -1,5° | (1:58:44) | 00:13 |
| 2202-09-17 | 157 | 0:05:59 | 0,482 P | 04:45:33 -9,4° | | 05:38:17 -1,5° | | 06:34:38 7,0° | (1:49:05) | |
| 2205-07-17 | 149 | 0:06:04 | 0,483 P | 16:10:54 35,1° | | 17:04:01 27,0° | | 17:53:59 19,4° | 1:43:05 | |
| 2213-02-21 | 153 | 0:06:20 | 0,123 P | 16:24:41 8,2° | | 17:01:11 3,2° | | 17:36:18 -1,8° | (1:11:37) | |
| 2214-07-08 | 130 | 0:06:23 | 0,717 P | 15:29:21 42,0° | | 16:31:47 32,7° | | 17:29:51 23,9° | 2:00:30 | |
| 2220-09-27 | 157 | 0:06:36 | 0,817 P | 13:20:20 33,0° | | 14:43:58 25,5° | | 16:01:21 15,7° | 2:41:01 | |
| 2221-02-23 | 124 | 0:06:37 | 0,453 P | 06:09:24 -9,4° | | 07:04:42 -1,1° | | 08:04:02 7,3° | (1:54:37) | |
| 2222-02-12 | 134 | 0:06:39 | 0,328 P | 08:53:54 10,2° | | 10:02:07 17,3° | | 11:14:42 22,2° | 2:20:48 | |
| 2224-12-11 | 126 | 0:06:45 | 0,390 P | 10:56:07 13,3° | | 11:54:51 14,5° | | 12:54:07 13,5° | 1:58:00 | |
| 2227-05-16 | 151 | 0:06:51 | 0,907 P | 07:45:05 30,4° | | 08:51:42 40,1° | | 10:03:29 49,2° | 2:18:24 | |
| 2229-09-18 | 138 | 0:06:56 | 0,823 P | 09:04:45 27,6° | | 10:22:38 35,4° | | 11:43:33 39,2° | 2:38:47 | |
| 2233-07-08 | 140 | 0:07:04 | 0,438 P | 06:13:49 17,9° | | 07:09:26 26,3° | | 08:09:17 35,3° | 1:55:29 | |
| 2234-12-21 | 155 | 0:07:07 | 0,719 P | 13:16:00 12,5° | | 14:25:42 8,0° | | 15:31:06 1,7° | 2:15:05 | |
| 2236-05-06 | 132 | 0:07:10 | 0,796 P | 06:20:14 15,6° | | 07:19:03 24,6° | | 08:22:19 34,0° | 2:02:06 | |
| 2241-08-08 | 149 | 0:07:22 | 0,339 P | 04:55:28 1,6° | | 05:35:48 7,3° | | 06:17:57 13,5° | 1:22:29 | |
| 2242-07-28 | 159 | 0:07:24 | 0,549 P | 17:52:23 18,0° | | 18:46:20 10,0° | | 19:37:10 2,9° | 1:44:46 | |
| 2243-12-12 | 136 | 0:07:27 | 0,381 P | 11:34:48 14,3° | | 12:35:44 14,1° | | 13:36:18 11,6° | 2:01:30 | |
| 2245-05-26 | 151 | 0:07:31 | 0,876 P | 16:58:12 26,6° | | 18:00:40 17,1° | | 18:58:41 8,8° | 2:00:29 | |

| Date | Saros | delta T | Mag. | First contact | Second contact | Maximum eclipse | Third contact | Fourth contact | Duration | Duration tot./ann. |
|---|---|---|---|---|---|---|---|---|---|---|
| 2246-05-16 | 161 | 0:07:33 | 0,207 P | 05:56:02 13,9° | | 06:28:11 18,8° | | 07:01:23 23,8° | 1:05:20 | |

Created with Alcyone Solar Eclipse Calculator. The calculations are based on the Five Millenium Canon of Solar Eclipses -1999 to +3000 with eclipse predictions by Fred Espenak (NASA's GSFC). Besselian Elements provided by Jean Meuus.