

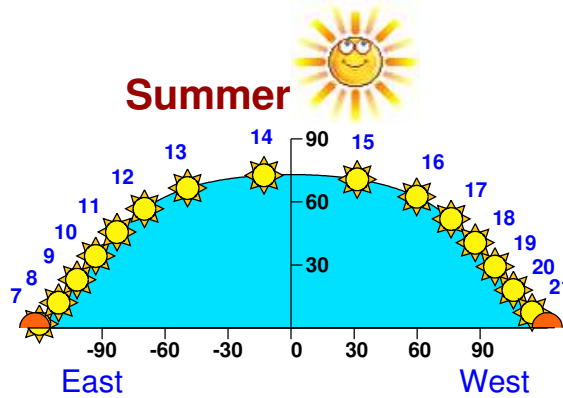
Sun Calendar 2017

Produced by *ScientiDev*
www.scientidev.fr

Madrid

-3.702°E, 40.416°N

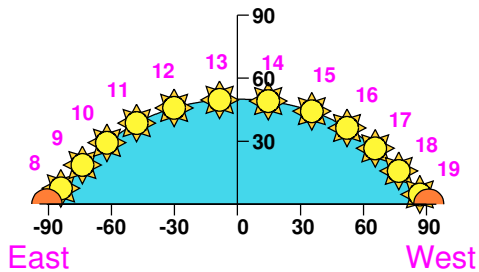
Summer



June 21

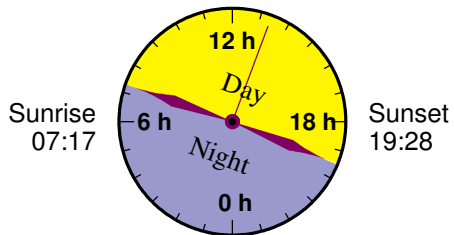


Spring



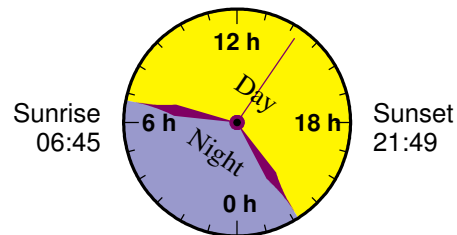
March 21

Day duration 12:12



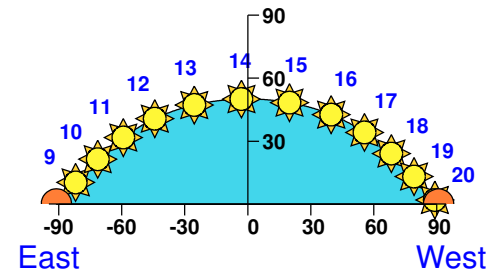
Spring Equinox

Day duration 15:04



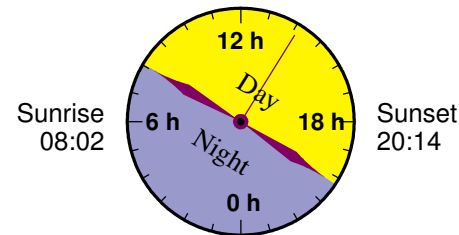
Summer Solstice

Autumn



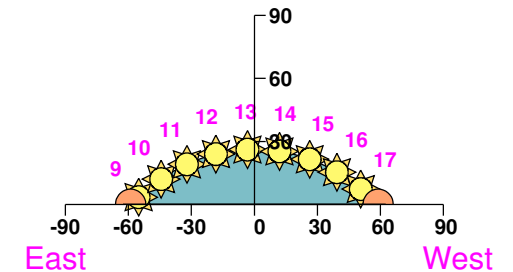
Sept. 21

Day duration 12:12



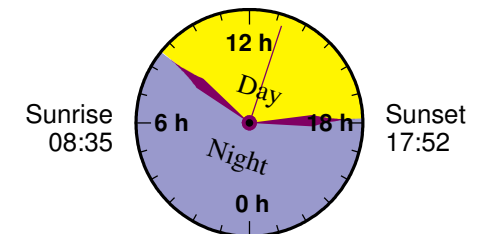
Autumn Equinox

Winter



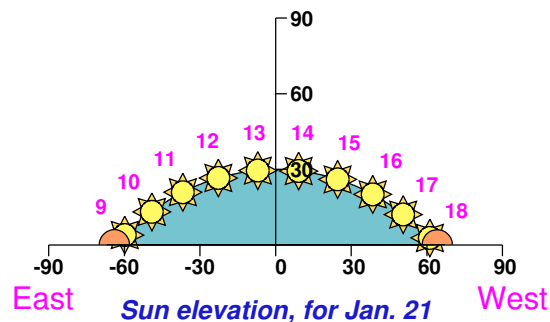
Dec. 21

Day duration 9:17

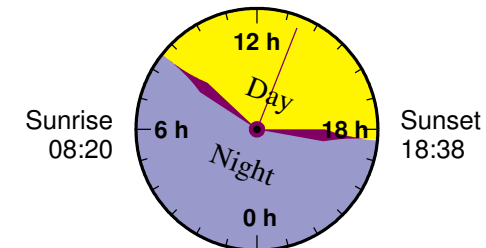


Winter Solstice

January 2017



Madrid
-3.702°E, 40.416°N



Duration of the day, for January 21

Sunrise and Sunset at Madrid (TL ± 1 mn)

Duration of the day - Variation - Sun maximal elevation (°)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

1

2

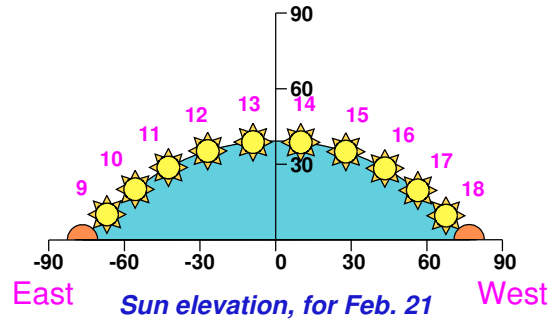
3

4

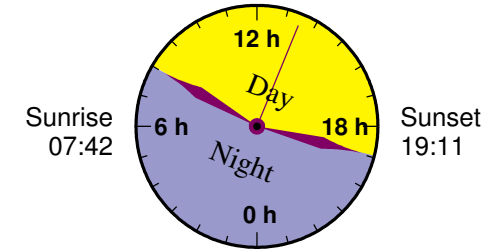
5

	2 2 - 363 08:38 - 18:00 9:22 +1 m. 27°	3 3 - 362 08:38 - 18:01 9:22 +0 m. 27°	4 4 - 361 08:38 - 18:02 9:23 +1 m. 27°	5 5 - 360 08:38 - 18:03 9:24 +1 m. 27°	6 6 - 359 08:38 - 18:04 9:25 +1 m. 27°	7 7 - 358 08:38 - 18:05 9:26 +1 m. 27°	8 8 - 357 08:38 - 18:06 9:27 +1 m. 27°
	9 9 - 356 08:38 - 18:07 9:28 +1 m. 28°	10 10 - 355 08:38 - 18:08 9:30 +2 m. 28°	11 11 - 354 08:37 - 18:09 9:31 +1 m. 28°	12 12 - 353 08:37 - 18:10 9:32 +1 m. 28°	13 13 - 352 08:37 - 18:11 9:34 +2 m. 28°	14 14 - 351 08:36 - 18:12 9:35 +1 m. 28°	15 15 - 350 08:36 - 18:13 9:37 +2 m. 29°
	16 16 - 349 08:36 - 18:14 9:38 +1 m. 29°	17 17 - 348 08:35 - 18:15 9:40 +2 m. 29°	18 18 - 347 08:35 - 18:17 9:42 +2 m. 29°	19 19 - 346 08:34 - 18:18 9:43 +1 m. 29°	20 20 - 345 08:34 - 18:19 9:45 +2 m. 30°	21 21 - 344 08:33 - 18:20 9:47 +2 m. 30°	22 22 - 343 08:32 - 18:21 9:48 +1 m. 30°
	23 23 - 342 08:32 - 18:22 9:50 +2 m. 30°	24 24 - 341 08:31 - 18:24 9:52 +2 m. 31°	25 25 - 340 08:30 - 18:25 9:54 +2 m. 31°	26 26 - 339 08:29 - 18:26 9:56 +2 m. 31°	27 27 - 338 08:29 - 18:27 9:58 +2 m. 31°	28 28 - 337 08:28 - 18:28 10:01 +3 m. 32°	29 29 - 336 08:27 - 18:30 10:03 +2 m. 32°
	30 30 - 335 08:26 - 18:31 10:05 +2 m. 32°	31 31 - 334 08:25 - 18:32 10:07 +2 m. 32°					

February 2017



Madrid
-3.702°E, 40.416°N



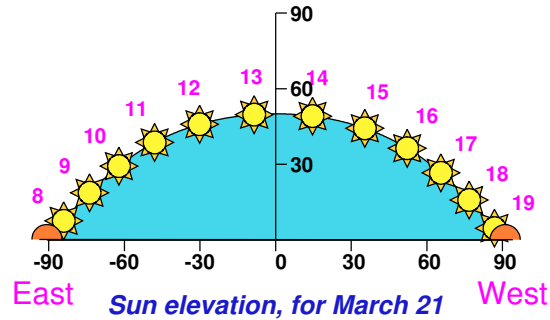
Duration of the day, for February 21

Sunrise and Sunset at Madrid (TL ± 1 mn)

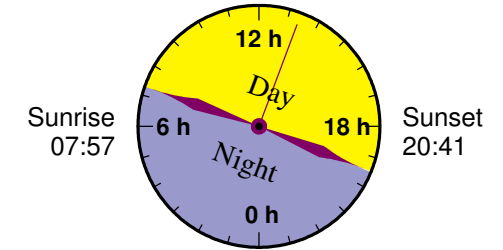
Duration of the day - Variation - Sun maximal elevation (°)

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
5			1 32 - 333 08:24 - 18:33 10:09 +2 m. 33°	2 33 - 332 08:23 - 18:35 10:11 +2 m. 33°	3 34 - 331 08:22 - 18:36 10:14 +3 m. 33°	4 35 - 330 08:21 - 18:37 10:16 +2 m. 34°	5 36 - 329 08:20 - 18:38 10:18 +2 m. 34°
6	6 37 - 328 08:19 - 18:39 10:20 +2 m. 34°	7 38 - 327 08:18 - 18:41 10:23 +3 m. 34°	8 39 - 326 08:17 - 18:42 10:25 +2 m. 35°	9 40 - 325 08:16 - 18:43 10:27 +2 m. 35°	10 41 - 324 08:15 - 18:44 10:30 +3 m. 35°	11 42 - 323 08:13 - 18:46 10:32 +2 m. 36°	12 43 - 322 08:12 - 18:47 10:35 +3 m. 36°
7	13 44 - 321 08:11 - 18:48 10:37 +2 m. 36°	14 45 - 320 08:10 - 18:49 10:40 +3 m. 37°	15 46 - 319 08:08 - 18:50 10:42 +2 m. 37°	16 47 - 318 08:07 - 18:52 10:45 +3 m. 37°	17 48 - 317 08:06 - 18:53 10:47 +2 m. 38°	18 49 - 316 08:04 - 18:54 10:50 +3 m. 38°	19 50 - 315 08:03 - 18:55 10:52 +2 m. 39°
8	20 51 - 314 08:02 - 18:56 10:55 +3 m. 39°	21 52 - 313 08:00 - 18:57 10:57 +2 m. 39°	22 53 - 312 07:59 - 18:59 11:00 +3 m. 40°	23 54 - 311 07:57 - 19:00 11:02 +2 m. 40°	24 55 - 310 07:56 - 19:01 11:05 +3 m. 40°	25 56 - 309 07:55 - 19:02 11:08 +3 m. 41°	26 57 - 308 07:53 - 19:03 11:10 +2 m. 41°
9	27 58 - 307 07:52 - 19:04 11:13 +3 m. 41°	28 59 - 306 07:50 - 19:05 11:15 +2 m. 42°					

March 2017



Madrid
-3.702°E, 40.416°N



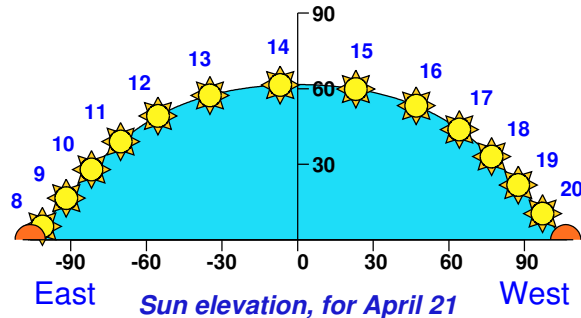
Sunrise and Sunset at Madrid (TL ± 1 mn)

Time change March 26

Duration of the day - Variation - Sun maximal elevation (°)

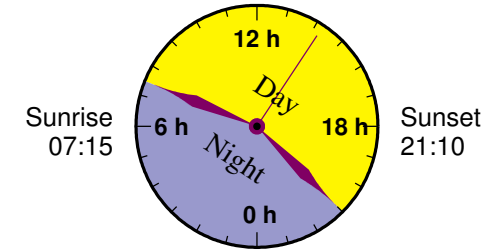
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
9			1 60 - 305 07:49 - 19:07 11:18 +3 m. 42°	2 61 - 304 07:47 - 19:08 11:21 +3 m. 43°	3 62 - 303 07:46 - 19:09 11:23 +2 m. 43°	4 63 - 302 07:44 - 19:10 11:26 +3 m. 43°	5 64 - 301 07:42 - 19:11 11:29 +3 m. 44°
10	6 65 - 300 07:41 - 19:12 11:31 +2 m. 44°	7 66 - 299 07:39 - 19:13 11:34 +3 m. 45°	8 67 - 298 07:38 - 19:14 11:37 +3 m. 45°	9 68 - 297 07:36 - 19:15 11:39 +2 m. 45°	10 69 - 296 07:35 - 19:16 11:42 +3 m. 46°	11 70 - 295 07:33 - 19:18 11:45 +3 m. 46°	12 71 - 294 07:31 - 19:19 11:47 +2 m. 46°
11	13 72 - 293 07:30 - 19:20 11:50 +3 m. 47°	14 73 - 292 07:28 - 19:21 11:53 +3 m. 47°	15 74 - 291 07:26 - 19:22 11:56 +3 m. 48°	16 75 - 290 07:25 - 19:23 11:58 +2 m. 48°	17 76 - 289 07:23 - 19:24 12:01 +3 m. 48°	18 77 - 288 07:22 - 19:25 12:04 +3 m. 49°	19 78 - 287 07:20 - 19:26 12:06 +2 m. 49°
12	20 79 - 286 07:18 - 19:27 12:09 +3 m. 50°	21 80 - 285 07:17 - 19:28 12:12 +3 m. 50°	22 81 - 284 07:15 - 19:29 12:14 +2 m. 50°	23 82 - 283 07:13 - 19:30 12:17 +3 m. 51°	24 83 - 282 07:12 - 19:31 12:20 +3 m. 51°	25 84 - 281 07:10 - 19:32 12:22 +2 m. 52°	26 85 - 280 08:08 - 20:33 12:25 +3 m. 52°
13	27 86 - 279 08:07 - 20:34 12:28 +3 m. 52°	28 87 - 278 08:05 - 20:35 12:30 +2 m. 53°	29 88 - 277 08:04 - 20:37 12:33 +3 m. 53°	30 89 - 276 08:02 - 20:38 12:36 +3 m. 54°	31 90 - 275 08:00 - 20:39 12:38 +2 m. 54°		

April 2017



Madrid

-3.702°E, 40.416°N



Duration of the day, for April 21

Sunrise and Sunset at Madrid (TL $\pm$ 1 mn)

Duration of the day - Variation - Sun maximal elevation (°)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

13

14

15

16

17

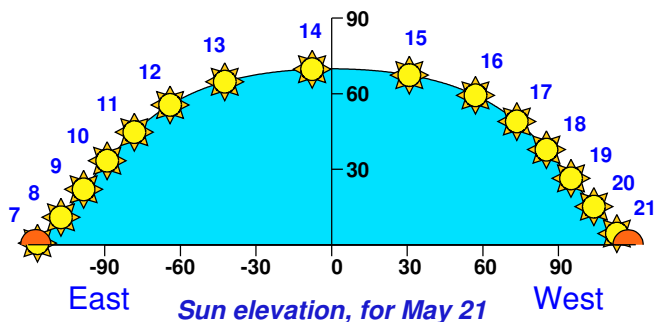
1	91 - 274 07:59 - 20:40	2	92 - 273 07:57 - 20:41
12:41	+3 m. 54°	12:44	+3 m. 55°

3	93 - 272 07:55 - 20:42	4	94 - 271 07:54 - 20:43	5	95 - 270 07:52 - 20:44	6	96 - 269 07:51 - 20:45	7	97 - 268 07:49 - 20:46	8	98 - 267 07:47 - 20:47	9	99 - 266 07:46 - 20:48
12:46	+2 m. 55°	12:49	+3 m. 55°	12:52	+3 m. 56°	12:54	+2 m. 56°	12:57	+3 m. 57°	13:00	+3 m. 57°	13:02	+2 m. 57°

10	100 - 265 07:44 - 20:49	11	101 - 264 07:43 - 20:50	12	102 - 263 07:41 - 20:51	13	103 - 262 07:40 - 20:52	14	104 - 261 07:38 - 20:53	15	105 - 260 07:37 - 20:54	16	106 - 259 07:35 - 20:55
13:05	+3 m. 58°	13:07	+2 m. 58°	13:10	+3 m. 58°	13:13	+3 m. 59°	13:15	+2 m. 59°	13:18	+3 m. 60°	13:20	+2 m. 60°

17	107 - 258 07:34 - 20:56	18	108 - 257 07:32 - 20:57	19	109 - 256 07:31 - 20:58	20	110 - 255 07:29 - 20:59	21	111 - 254 07:28 - 21:00	22	112 - 253 07:26 - 21:01	23	113 - 252 07:25 - 21:02
13:23	+3 m. 60°	13:25	+2 m. 61°	13:28	+3 m. 61°	13:30	+2 m. 61°	13:33	+3 m. 62°	13:35	+2 m. 62°	13:38	+3 m. 62°

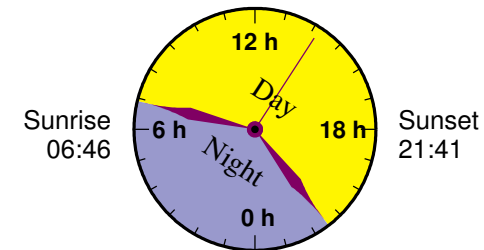
24	114 - 251 07:23 - 21:03	25	115 - 250 07:22 - 21:04	26	116 - 249 07:21 - 21:05	27	117 - 248 07:19 - 21:07	28	118 - 247 07:18 - 21:08	29	119 - 246 07:17 - 21:09	30	120 - 245 07:15 - 21:10
13:40	+2 m. 63°	13:42	+2 m. 63°	13:45	+3 m. 63°	13:47	+2 m. 64°	13:50	+3 m. 64°	13:52	+2 m. 64°	13:54	+2 m. 65°



May 2017

Madrid

-3.702°E, 40.416°N



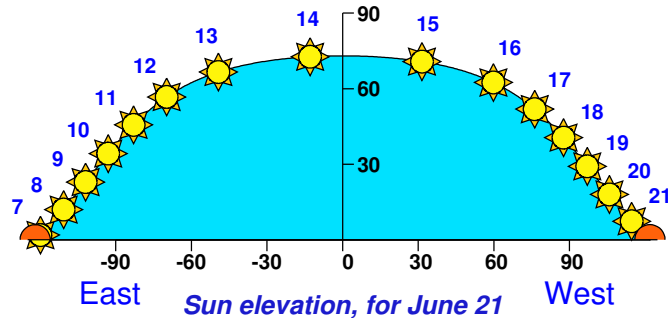
Duration of the day, for May 21

Sunrise and Sunset at Madrid (TL $\pm$ 1 mn)

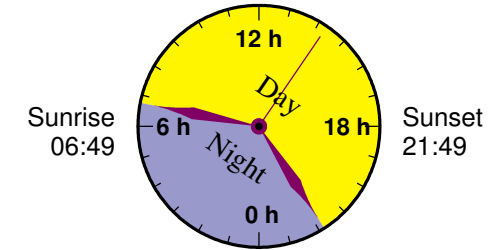
Duration of the day - Variation - Sun maximal elevation (°)

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
18	1 121 - 244 07:14 - 21:11 13:57 +3 m. 65°	2 122 - 243 07:13 - 21:12 13:59 +2 m. 65°	3 123 - 242 07:12 - 21:13 14:01 +2 m. 65°	4 124 - 241 07:10 - 21:14 14:03 +2 m. 66°	5 125 - 240 07:09 - 21:15 14:06 +3 m. 66°	6 126 - 239 07:08 - 21:16 14:08 +2 m. 66°	7 127 - 238 07:07 - 21:17 14:10 +2 m. 67°
19	8 128 - 237 07:06 - 21:18 14:12 +2 m. 67°	9 129 - 236 07:05 - 21:19 14:14 +2 m. 67°	10 130 - 235 07:04 - 21:20 14:16 +2 m. 67°	11 131 - 234 07:03 - 21:21 14:18 +2 m. 68°	12 132 - 233 07:02 - 21:22 14:20 +2 m. 68°	13 133 - 232 07:01 - 21:23 14:22 +2 m. 68°	14 134 - 231 07:00 - 21:24 14:24 +2 m. 68°
20	15 135 - 230 06:59 - 21:25 14:26 +2 m. 69°	16 136 - 229 06:58 - 21:26 14:28 +2 m. 69°	17 137 - 228 06:57 - 21:26 14:30 +2 m. 69°	18 138 - 227 06:56 - 21:27 14:32 +2 m. 69°	19 139 - 226 06:55 - 21:28 14:33 +1 m. 69°	20 140 - 225 06:54 - 21:29 14:35 +2 m. 70°	21 141 - 224 06:54 - 21:30 14:37 +2 m. 70°
21	22 142 - 223 06:53 - 21:31 14:38 +1 m. 70°	23 143 - 222 06:52 - 21:32 14:40 +2 m. 70°	24 144 - 221 06:51 - 21:33 14:41 +1 m. 70°	25 145 - 220 06:51 - 21:34 14:43 +2 m. 71°	26 146 - 219 06:50 - 21:34 14:44 +1 m. 71°	27 147 - 218 06:49 - 21:35 14:46 +2 m. 71°	28 148 - 217 06:49 - 21:36 14:47 +1 m. 71°
22	29 149 - 216 06:48 - 21:37 14:49 +2 m. 71°	30 150 - 215 06:48 - 21:38 14:50 +1 m. 71°	31 151 - 214 06:47 - 21:38 14:51 +1 m. 72°				

June 2017



Madrid
-3.702°E, 40.416°N



Duration of the day, for June 21

Sunrise and Sunset at Madrid (TL $\pm$ 1 mn)

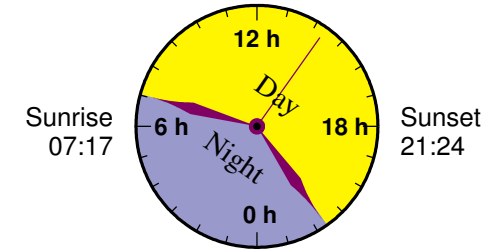
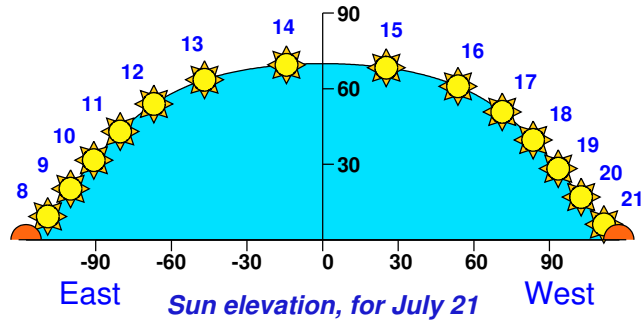
Duration of the day - Variation - Sun maximal elevation (°)

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
22				1 152 - 213 06:47 - 21:39 14:52 +1 m. 72°	2 153 - 212 06:47 - 21:40 14:53 +1 m. 72°	3 154 - 211 06:46 - 21:41 14:55 +2 m. 72°	4 155 - 210 06:46 - 21:41 14:56 +1 m. 72°
23	5 156 - 209 06:45 - 21:42 14:57 +1 m. 72°	6 157 - 208 06:45 - 21:42 14:57 +0 m. 72°	7 158 - 207 06:45 - 21:43 14:58 +1 m. 72°	8 159 - 206 06:45 - 21:44 14:59 +1 m. 72°	9 160 - 205 06:45 - 21:44 15:00 +1 m. 73°	10 161 - 204 06:44 - 21:45 15:00 +0 m. 73°	11 162 - 203 06:44 - 21:45 15:01 +1 m. 73°
24	12 163 - 202 06:44 - 21:46 15:02 +1 m. 73°	13 164 - 201 06:44 - 21:46 15:02 +0 m. 73°	14 165 - 200 06:44 - 21:47 15:02 +0 m. 73°	15 166 - 199 06:44 - 21:47 15:03 +1 m. 73°	16 167 - 198 06:44 - 21:47 15:03 +0 m. 73°	17 168 - 197 06:44 - 21:48 15:03 +0 m. 73°	18 169 - 196 06:44 - 21:48 15:04 +1 m. 73°
25	19 170 - 195 06:45 - 21:48 15:04 +0 m. 73°	20 171 - 194 06:45 - 21:48 15:04 +0 m. 73°	21 172 - 193 06:45 - 21:49 15:04 +0 m. 73°	22 173 - 192 06:45 - 21:49 15:04 +0 m. 73°	23 174 - 191 06:45 - 21:49 15:04 +0 m. 73°	24 175 - 190 06:46 - 21:49 15:03 -1 m. 73°	25 176 - 189 06:46 - 21:49 15:03 +0 m. 73°
26	26 177 - 188 06:46 - 21:49 15:03 +0 m. 73°	27 178 - 187 06:47 - 21:49 15:03 +0 m. 73°	28 179 - 186 06:47 - 21:49 15:02 -1 m. 73°	29 180 - 185 06:48 - 21:49 15:02 +0 m. 73°	30 181 - 184 06:48 - 21:49 15:01 -1 m. 73°		

July 2017

Madrid

-3.702°E, 40.416°N



Duration of the day, for July 21

Sunrise and Sunset at Madrid (TL $\pm$ 1 mn)

Duration of the day - Variation - Sun maximal elevation (°)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

26

27

28

29

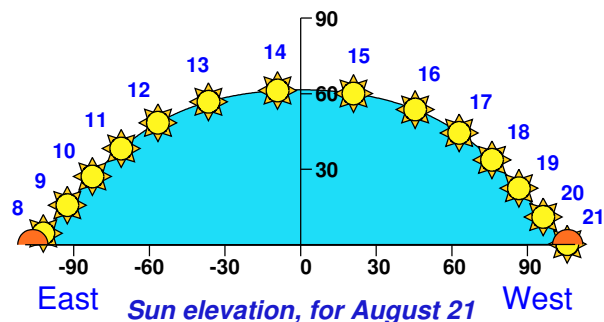
30

31

1 182 - 183 06:49 - 21:49 15:01 +0 m. 73°	2 183 - 182 06:49 - 21:49 15:00 -1 m. 73°
8 189 - 176 06:53 - 21:47 14:55 -1 m. 72°	9 190 - 175 06:53 - 21:47 14:54 -1 m. 72°
15 196 - 169 06:58 - 21:44 14:46 -2 m. 71°	16 197 - 168 06:58 - 21:43 14:45 -1 m. 71°
22 203 - 162 07:03 - 21:39 14:36 -2 m. 70°	23 204 - 161 07:04 - 21:38 14:34 -2 m. 70°
29 210 - 155 07:10 - 21:33 14:23 -2 m. 68°	30 211 - 154 07:11 - 21:32 14:21 -2 m. 68°

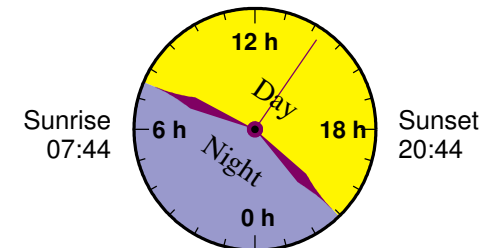
3 184 - 181 06:50 - 21:49 14:59 -1 m. 73°	4 185 - 180 06:50 - 21:49 14:59 +0 m. 72°	5 186 - 179 06:51 - 21:48 14:58 -1 m. 72°	6 187 - 178 06:51 - 21:48 14:57 -1 m. 72°	7 188 - 177 06:52 - 21:48 14:56 -1 m. 72°
10 191 - 174 06:54 - 21:47 14:53 -1 m. 72°	11 192 - 173 06:55 - 21:46 14:52 -1 m. 72°	12 193 - 172 06:55 - 21:46 14:50 -2 m. 71°	13 194 - 171 06:56 - 21:45 14:49 -1 m. 71°	14 195 - 170 06:57 - 21:45 14:48 -1 m. 71°
17 198 - 167 06:59 - 21:43 14:44 -1 m. 71°	18 199 - 166 07:00 - 21:42 14:42 -2 m. 71°	19 200 - 165 07:01 - 21:41 14:41 -1 m. 70°	20 201 - 164 07:02 - 21:41 14:39 -2 m. 70°	21 202 - 163 07:02 - 21:40 14:38 -1 m. 70°
24 205 - 160 07:05 - 21:37 14:32 -2 m. 69°	25 206 - 159 07:06 - 21:37 14:31 -1 m. 69°	26 207 - 158 07:07 - 21:36 14:29 -2 m. 69°	27 208 - 157 07:08 - 21:35 14:27 -2 m. 69°	28 209 - 156 07:09 - 21:34 14:25 -2 m. 68°
31 212 - 153 07:11 - 21:31 14:19 -2 m. 68°				

August 2017



Madrid

-3.702°E, 40.416°N



Duration of the day, for August 21

Sunrise and Sunset at Madrid (TL $\pm$ 1 mn)

Duration of the day - Variation - Sun maximal elevation (°)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

31

1 213 - 152
07:12 - 21:30
14:17 -2 m. 67°

2 214 - 151
07:13 - 21:29
14:15 -2 m. 67°

3 215 - 150
07:14 - 21:27
14:13 -2 m. 67°

4 216 - 149
07:15 - 21:26
14:11 -2 m. 67°

5 217 - 148
07:16 - 21:25
14:09 -2 m. 66°

6 218 - 147
07:17 - 21:24
14:07 -2 m. 66°

32

7 219 - 146
07:18 - 21:23
14:05 -2 m. 66°

8 220 - 145
07:19 - 21:21
14:02 -3 m. 66°

9 221 - 144
07:20 - 21:20
14:00 -2 m. 65°

10 222 - 143
07:21 - 21:19
13:58 -2 m. 65°

11 223 - 142
07:22 - 21:18
13:56 -2 m. 65°

12 224 - 141
07:23 - 21:16
13:54 -2 m. 64°

13 225 - 140
07:24 - 21:15
13:51 -3 m. 64°

33

14 226 - 139
07:25 - 21:14
13:49 -2 m. 64°

15 227 - 138
07:26 - 21:12
13:46 -3 m. 63°

16 228 - 137
07:27 - 21:11
13:44 -2 m. 63°

17 229 - 136
07:28 - 21:09
13:42 -2 m. 63°

18 230 - 135
07:29 - 21:08
13:39 -3 m. 63°

19 231 - 134
07:30 - 21:07
13:37 -2 m. 62°

20 232 - 133
07:31 - 21:05
13:35 -2 m. 62°

34

21 233 - 132
07:32 - 21:04
13:32 -3 m. 62°

22 234 - 131
07:33 - 21:02
13:30 -2 m. 61°

23 235 - 130
07:34 - 21:01
13:27 -3 m. 61°

24 236 - 129
07:35 - 20:59
13:25 -2 m. 61°

25 237 - 128
07:36 - 20:58
13:22 -3 m. 60°

26 238 - 127
07:37 - 20:56
13:20 -2 m. 60°

27 239 - 126
07:38 - 20:55
13:17 -3 m. 59°

35

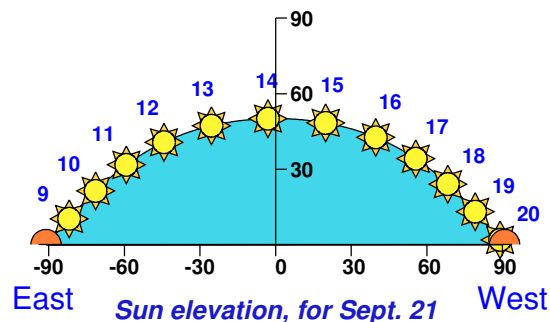
28 240 - 125
07:38 - 20:53
13:15 -2 m. 59°

29 241 - 124
07:39 - 20:52
13:12 -3 m. 59°

30 242 - 123
07:40 - 20:50
13:10 -2 m. 58°

31 243 - 122
07:41 - 20:48
13:07 -3 m. 58°

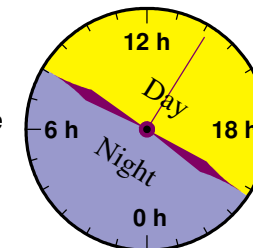
September 2017



Madrid

-3.702°E, 40.416°N

Sunrise
08:11



Sunset
19:57

Duration of the day, for September 21

Sunrise and Sunset at Madrid (TL ± 1 mn)

Duration of the day - Variation - Sun maximal elevation (°)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

35

36

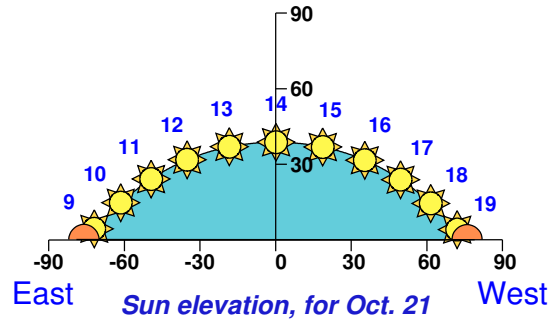
37

38

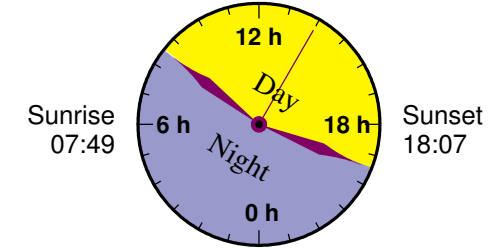
39

4 247 - 118 07:45 - 20:42 12:57-2 m.57°	5 248 - 117 07:46 - 20:40 12:54-3 m.56°	6 249 - 116 07:47 - 20:39 12:52-2 m.56°	7 250 - 115 07:48 - 20:37 12:49-3 m.55°	8 251 - 114 07:49 - 20:35 12:46-3 m.55°	9 252 - 113 07:50 - 20:34 12:44-2 m.55°	10 253 - 112 07:51 - 20:32 12:41-3 m.54°
11 254 - 111 07:52 - 20:30 12:39-2 m.54°	12 255 - 110 07:53 - 20:29 12:36-3 m.54°	13 256 - 109 07:54 - 20:27 12:33-3 m.53°	14 257 - 108 07:55 - 20:25 12:31-2 m.53°	15 258 - 107 07:56 - 20:24 12:28-3 m.52°	16 259 - 106 07:57 - 20:22 12:25-3 m.52°	17 260 - 105 07:58 - 20:20 12:23-2 m.52°
18 261 - 104 07:59 - 20:19 12:20-3 m.51°	19 262 - 103 08:00 - 20:17 12:18-2 m.51°	20 263 - 102 08:01 - 20:15 12:15-3 m.51°	21 264 - 101 08:02 - 20:14 12:12-3 m.50°	22 265 - 100 08:03 - 20:12 12:10-2 m.50°	23 266 - 99 08:04 - 20:10 12:07-3 m.49°	24 267 - 98 08:05 - 20:09 12:04-3 m.49°
25 268 - 97 08:05 - 20:07 12:02-2 m.49°	26 269 - 96 08:06 - 20:05 11:59-3 m.48°	27 270 - 95 08:07 - 20:04 11:56-3 m.48°	28 271 - 94 08:08 - 20:02 11:54-2 m.47°	29 272 - 93 08:09 - 20:00 11:51-3 m.47°	30 273 - 92 08:10 - 19:59 11:48-3 m.47°	

October 2017



Madrid
-3.702°E, 40.416°N



Duration of the day, for October 21

Sunrise and Sunset at Madrid (TL ± 1 mn)

Time change October 29

Duration of the day - Variation - Sun maximal elevation (°)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

39

40

41

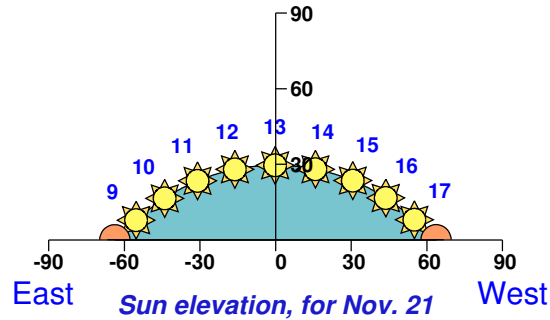
42

43

44

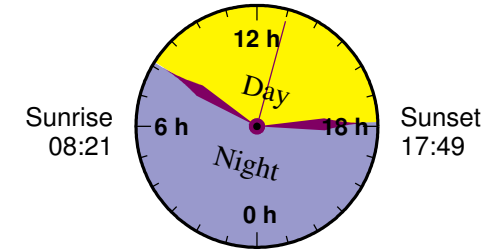
2 275 - 90 08:12 - 19:55 11:43-3 m.46°	3 276 - 89 08:13 - 19:54 11:40-3 m.45°	4 277 - 88 08:14 - 19:52 11:38-2 m.45°	5 278 - 87 08:15 - 19:51 11:35-3 m.45°	6 279 - 86 08:16 - 19:49 11:33-2 m.44°	7 280 - 85 08:18 - 19:47 11:30-3 m.44°	8 281 - 84 08:19 - 19:46 11:27-3 m.44°
9 282 - 83 08:20 - 19:44 11:25-2 m.43°	10 283 - 82 08:21 - 19:43 11:22-3 m.43°	11 284 - 81 08:22 - 19:41 11:19-3 m.42°	12 285 - 80 08:23 - 19:39 11:17-2 m.42°	13 286 - 79 08:24 - 19:38 11:14-3 m.42°	14 287 - 78 08:25 - 19:36 11:12-2 m.41°	15 288 - 77 08:26 - 19:35 11:09-3 m.41°
16 289 - 76 08:27 - 19:33 11:07-2 m.41°	17 290 - 75 08:28 - 19:32 11:04-3 m.40°	18 291 - 74 08:29 - 19:30 11:01-3 m.40°	19 292 - 73 08:30 - 19:29 10:59-2 m.39°	20 293 - 72 08:31 - 19:28 10:56-3 m.39°	21 294 - 71 08:32 - 19:26 10:54-2 m.39°	22 295 - 70 08:34 - 19:25 10:51-3 m.38°
23 296 - 69 08:35 - 19:23 10:49-2 m.38°	24 297 - 68 08:36 - 19:22 10:46-3 m.38°	25 298 - 67 08:37 - 19:21 10:44-2 m.37°	26 299 - 66 08:38 - 19:19 10:41-3 m.37°	27 300 - 65 08:39 - 19:18 10:39-2 m.37°	28 301 - 64 08:40 - 19:17 10:37-2 m.36°	29 302 - 63 07:41 - 18:15 10:34-3 m.36°
30 303 - 62 07:43 - 18:14 10:32-2 m.36°	31 304 - 61 07:44 - 18:13 10:29-3 m.35°					

November 2017



Madrid

-3.702°E, 40.416°N



Duration of the day, for November 21

Sunrise and Sunset at Madrid (TL $\pm$ 1 mn)

Duration of the day - Variation - Sun maximal elevation (°)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

1 305 - 60 07:45 - 18:12 10:27-2 m.35°	2 306 - 59 07:46 - 18:11 10:25-2 m.35°	3 307 - 58 07:47 - 18:09 10:22-3 m.34°	4 308 - 57 07:48 - 18:08 10:20-2 m.34°	5 309 - 56 07:49 - 18:07 10:18-2 m.34°
8 312 - 53 07:53 - 18:04 10:11-2 m.33°	9 313 - 52 07:54 - 18:03 10:09-2 m.33°	10 314 - 51 07:55 - 18:02 10:07-2 m.32°	11 315 - 50 07:57 - 18:01 10:05-2 m.32°	12 316 - 49 07:58 - 18:00 10:03-2 m.32°
15 319 - 46 08:01 - 17:58 9:56-2 m.31°	16 320 - 45 08:02 - 17:57 9:54-2 m.31°	17 321 - 44 08:03 - 17:56 9:52-2 m.31°	18 322 - 43 08:05 - 17:55 9:50-2 m.30°	19 323 - 42 08:06 - 17:55 9:48-2 m.30°
22 326 - 39 08:09 - 17:53 9:43-2 m.29°	23 327 - 38 08:10 - 17:52 9:42-1 m.29°	24 328 - 37 08:11 - 17:52 9:40-2 m.29°	25 329 - 36 08:13 - 17:51 9:38-2 m.29°	26 330 - 35 08:14 - 17:51 9:37-1 m.29°
29 333 - 32 08:17 - 17:50 9:32-2 m.28°	30 334 - 31 08:18 - 17:49 9:31-1 m.28°			

44

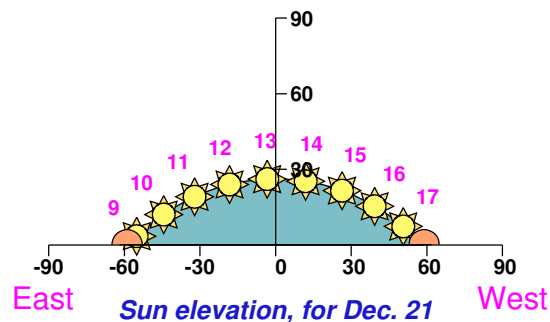
45

46

47

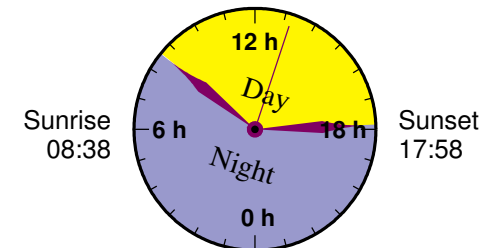
48

December 2017



Madrid

-3.702°E, 40.416°N



Duration of the day, for December 21

Sunrise and Sunset at Madrid (TL ± 1 mn)

Duration of the day - Variation - Sun maximal elevation (°)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

48

49

50

51

52

4 338 - 27 08:22 - 17:49 9:26-1 m.27°	5 339 - 26 08:23 - 17:48 9:25-1 m.27°	6 340 - 25 08:24 - 17:48 9:24-1 m.27°	7 341 - 24 08:25 - 17:48 9:23-1 m.27°	8 342 - 23 08:25 - 17:48 9:22-1 m.27°	9 343 - 22 08:26 - 17:48 9:22+0 m.27°	10 344 - 21 08:27 - 17:48 9:21-1 m.27°
11 345 - 20 08:28 - 17:49 9:20-1 m.27°	12 346 - 19 08:29 - 17:49 9:20+0 m.27°	13 347 - 18 08:30 - 17:49 9:19-1 m.26°	14 348 - 17 08:30 - 17:49 9:18-1 m.26°	15 349 - 16 08:31 - 17:49 9:18+0 m.26°	16 350 - 15 08:32 - 17:50 9:18+0 m.26°	17 351 - 14 08:32 - 17:50 9:17-1 m.26°
18 352 - 13 08:33 - 17:50 9:17+0 m.26°	19 353 - 12 08:34 - 17:51 9:17+0 m.26°	20 354 - 11 08:34 - 17:51 9:17+0 m.26°	21 355 - 10 08:35 - 17:52 9:17+0 m.26°	22 356 - 9 08:35 - 17:52 9:17+0 m.26°	23 357 - 8 08:36 - 17:53 9:17+0 m.26°	24 358 - 7 08:36 - 17:53 9:17+0 m.26°
25 359 - 6 08:36 - 17:54 9:17+0 m.26°	26 360 - 5 08:37 - 17:55 9:17+0 m.26°	27 361 - 4 08:37 - 17:55 9:18+1 m.26°	28 362 - 3 08:37 - 17:56 9:18+0 m.26°	29 363 - 2 08:38 - 17:57 9:19+1 m.26°	30 364 - 1 08:38 - 17:57 9:19+0 m.26°	31 365 - 0 08:38 - 17:58 9:20+1 m.27°