

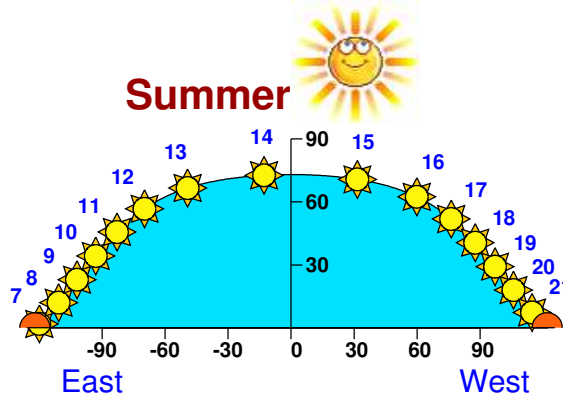
Sun Calendar 2018

Produced by *ScientiDev*
www.scientidev.fr

Madrid

-3.702°E, 40.416°N

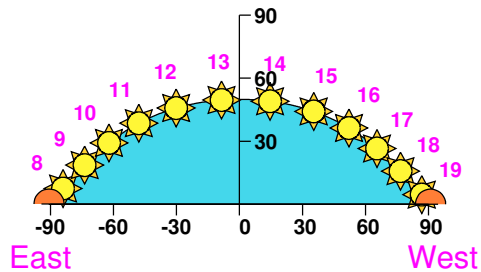
Summer



June 21

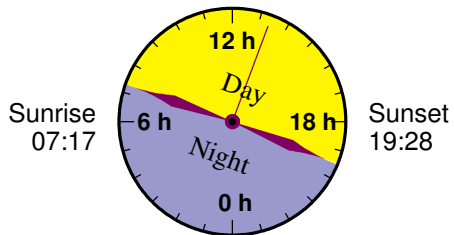


Spring



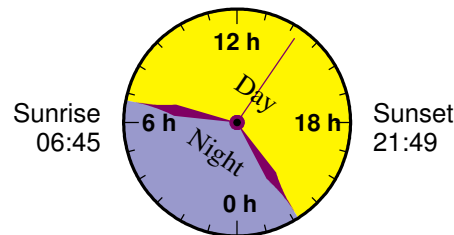
March 21

Day duration 12:11



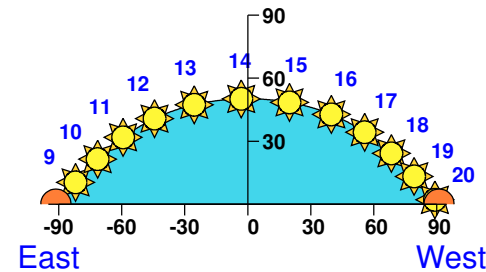
Spring Equinox

Day duration 15:04



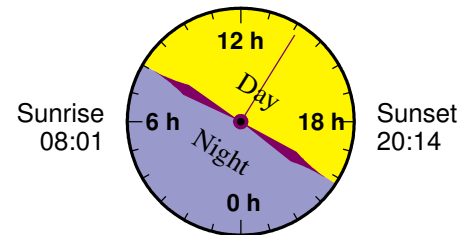
Summer Solstice

Autumn



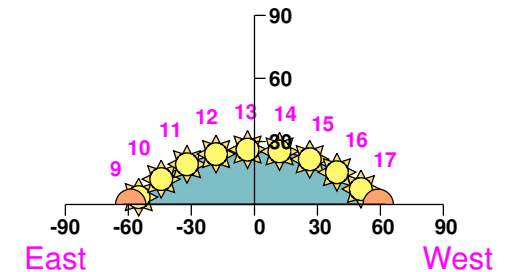
Sept. 21

Day duration 12:13



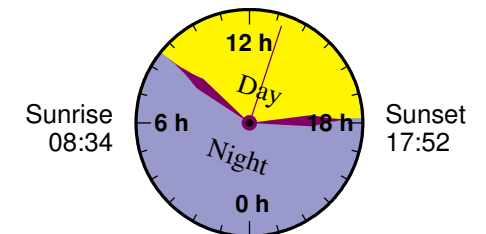
Autumn Equinox

Winter



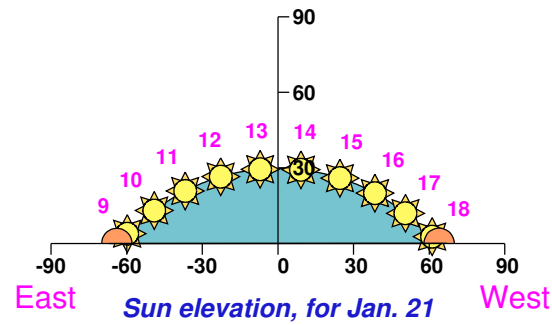
Dec. 21

Day duration 9:17

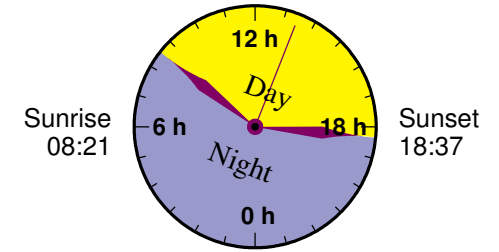


Winter Solstice

January 2018



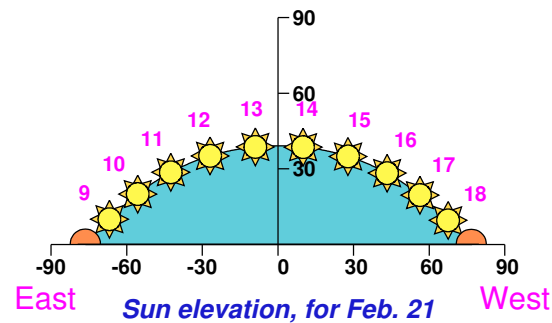
Madrid
-3.702°E, 40.416°N



Duration of the day, for January 21

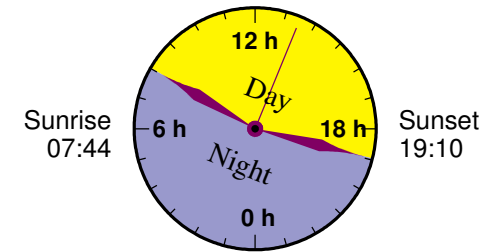
Sunrise and Sunset at Madrid (TL $\pm$ 1 mn) and sun maximal elevation (°)

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1	1 1 - 364 08:38 - 17:59 27° 	2 2 - 363 08:38 - 18:00 27° 	3 3 - 362 08:38 - 18:01 27° 	4 4 - 361 08:38 - 18:02 27° 	5 5 - 360 08:38 - 18:03 27° 	6 6 - 359 08:38 - 18:04 27° 	7 7 - 358 08:38 - 18:05 27°
2	8 8 - 357 08:38 - 18:06 27° 	9 9 - 356 08:38 - 18:07 28° 	10 10 - 355 08:38 - 18:08 28° 	11 11 - 354 08:37 - 18:09 28° 	12 12 - 353 08:37 - 18:10 28° 	13 13 - 352 08:37 - 18:11 28° 	14 14 - 351 08:37 - 18:12 28°
3	15 15 - 350 08:36 - 18:13 29° 	16 16 - 349 08:36 - 18:14 29° 	17 17 - 348 08:35 - 18:15 29° 	18 18 - 347 08:35 - 18:16 29° 	19 19 - 346 08:34 - 18:17 29° 	20 20 - 345 08:34 - 18:19 30° 	21 21 - 344 08:33 - 18:20 30°
4	22 22 - 343 08:32 - 18:21 30° 	23 23 - 342 08:32 - 18:22 30° 	24 24 - 341 08:31 - 18:23 30° 	25 25 - 340 08:30 - 18:25 31° 	26 26 - 339 08:30 - 18:26 31° 	27 27 - 338 08:29 - 18:27 31° 	28 28 - 337 08:28 - 18:28 31°
5	29 29 - 336 08:27 - 18:29 32° 	30 30 - 335 08:26 - 18:31 32° 	31 31 - 334 08:25 - 18:32 32° 				



February 2018

Madrid
-3.702°E, 40.416°N



Duration of the day, for February 21

Sunrise and Sunset at Madrid (TL $\pm$ 1 mn) and sun maximal elevation (°)

5

6

7

8

9

Monday

Tuesday

Wednesday

Thursday

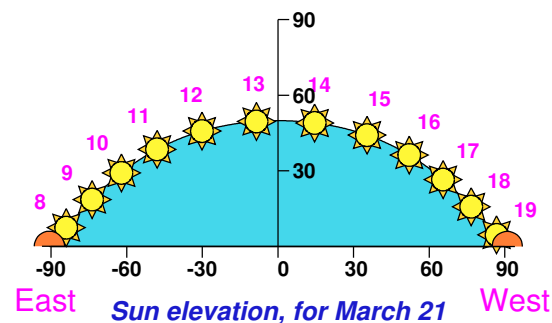
Friday

Saturday

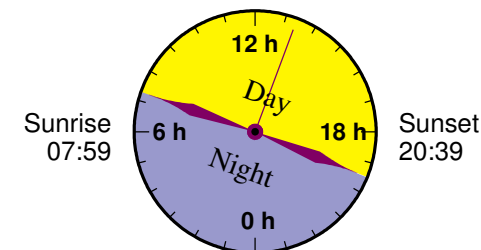
Sunday

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

March 2018



Madrid
-3.702°E, 40.416°N



Duration of the day, for March 21

Sunrise and Sunset at Madrid (TL $\pm$ 1 mn) and sun maximal elevation (°)

Time change March 25

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

9

1 60 - 305
07:49 - 19:06 42°

2 61 - 304
07:47 - 19:07 42°

3 62 - 303
07:46 - 19:09 43°

4 63 - 302
07:44 - 19:10 43°

10

5 64 - 301
07:43 - 19:11 44°

6 65 - 300
07:41 - 19:12 44°

7 66 - 299
07:40 - 19:13 44°

8 67 - 298
07:38 - 19:14 45°

9 68 - 297
07:37 - 19:15 45°

10 69 - 296
07:35 - 19:16 46°

11 70 - 295
07:33 - 19:17 46°

11

12 71 - 294
07:32 - 19:18 46°

13 72 - 293
07:30 - 19:19 47°

14 73 - 292
07:28 - 19:21 47°

15 74 - 291
07:27 - 19:22 48°

16 75 - 290
07:25 - 19:23 48°

17 76 - 289
07:24 - 19:24 48°

18 77 - 288
07:22 - 19:25 49°

12

19 78 - 287
07:20 - 19:26 49°

20 79 - 286
07:19 - 19:27 50°

21 80 - 285
07:17 - 19:28 50°

22 81 - 284
07:15 - 19:29 50°

23 82 - 283
07:14 - 19:30 51°

24 83 - 282
07:12 - 19:31 51°

25 84 - 281
08:10 - 20:32 52°

13

26 85 - 280
08:09 - 20:33 52°

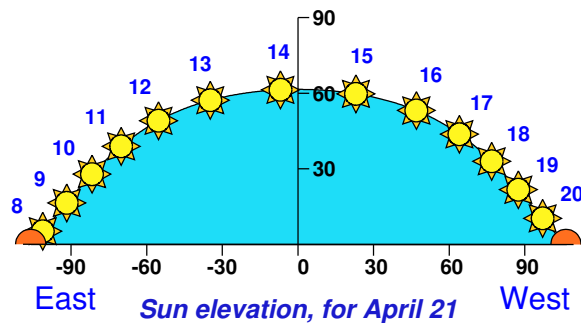
27 86 - 279
08:07 - 20:34 52°

28 87 - 278
08:06 - 20:35 53°

29 88 - 277
08:04 - 20:36 53°

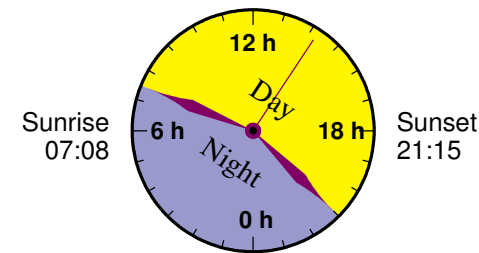
30 89 - 276
08:02 - 20:37 53°

31 90 - 275
08:01 - 20:38 54°



April 2018

Madrid
-3.702°E, 40.416°N



Duration of the day, for April 21

Sunrise and Sunset at Madrid (TL $\pm$ 1 mn) and sun maximal elevation (°)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

13

14

15

16

17

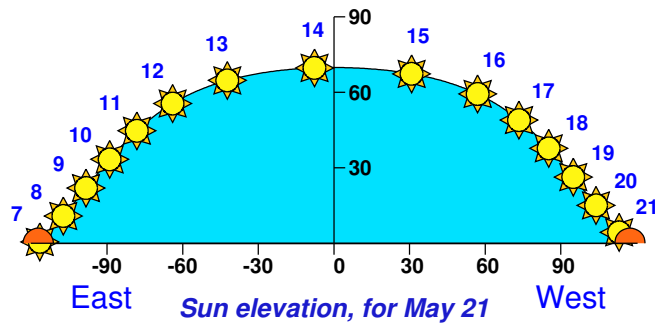
18

						1 91 - 274 07:59 - 20:39 54°
2 92 - 273 07:57 - 20:40 55° 	3 93 - 272 07:56 - 20:41 55° 	4 94 - 271 07:54 - 20:42 55° 	5 95 - 270 07:53 - 20:44 56° 	6 96 - 269 07:51 - 20:45 56° 	7 97 - 268 07:49 - 20:46 57° 	8 98 - 267 07:48 - 20:47 57°
9 99 - 266 07:46 - 20:48 57° 	10 100 - 265 07:45 - 20:49 58° 	11 101 - 264 07:43 - 20:50 58° 	12 102 - 263 07:42 - 20:51 58° 	13 103 - 262 07:40 - 20:52 59° 	14 104 - 261 07:38 - 20:53 59° 	15 105 - 260 07:37 - 20:54 59°
16 106 - 259 07:35 - 20:55 60° 	17 107 - 258 07:34 - 20:56 60° 	18 108 - 257 07:32 - 20:57 61° 	19 109 - 256 07:31 - 20:58 61° 	20 110 - 255 07:29 - 20:59 61° 	21 111 - 254 07:28 - 21:00 62° 	22 112 - 253 07:27 - 21:01 62°
23 113 - 252 07:25 - 21:02 62° 	24 114 - 251 07:24 - 21:03 63° 	25 115 - 250 07:22 - 21:04 63° 	26 116 - 249 07:21 - 21:05 63° 	27 117 - 248 07:20 - 21:06 64° 	28 118 - 247 07:18 - 21:07 64° 	29 119 - 246 07:17 - 21:08 64°
30 120 - 245 07:16 - 21:09 64° 						

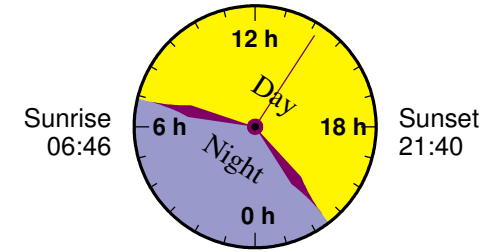
May 2018

Madrid

-3.702°E, 40.416°N



Sunrise and Sunset at Madrid (TL $\pm$ 1 mn) and sun maximal elevation (°)



Duration of the day, for May 21

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

18

19

20

21

22

1 121 - 244
07:14 - 21:10 65°

2 122 - 243
07:13 - 21:11 65°

3 123 - 242
07:12 - 21:12 65°

4 124 - 241
07:11 - 21:13 66°

5 125 - 240
07:10 - 21:14 66°

6 126 - 239
07:08 - 21:15 66°

7 127 - 238
07:07 - 21:16 66°

8 128 - 237
07:06 - 21:17 67°

9 129 - 236
07:05 - 21:18 67°

10 130 - 235
07:04 - 21:19 67°

11 131 - 234
07:03 - 21:20 68°

12 132 - 233
07:02 - 21:21 68°

13 133 - 232
07:01 - 21:22 68°

14 134 - 231
07:00 - 21:23 68°

15 135 - 230
06:59 - 21:24 69°

16 136 - 229
06:58 - 21:25 69°

17 137 - 228
06:57 - 21:26 69°

18 138 - 227
06:56 - 21:27 69°

19 139 - 226
06:55 - 21:28 69°

20 140 - 225
06:54 - 21:29 70°

21 141 - 224
06:54 - 21:30 70°

22 142 - 223
06:53 - 21:31 70°

23 143 - 222
06:52 - 21:32 70°

24 144 - 221
06:52 - 21:33 70°

25 145 - 220
06:51 - 21:33 71°

26 146 - 219
06:50 - 21:34 71°

27 147 - 218
06:50 - 21:35 71°

28 148 - 217
06:49 - 21:36 71°

29 149 - 216
06:48 - 21:37 71°

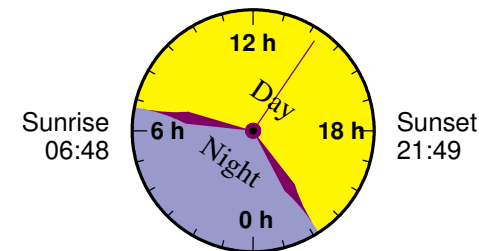
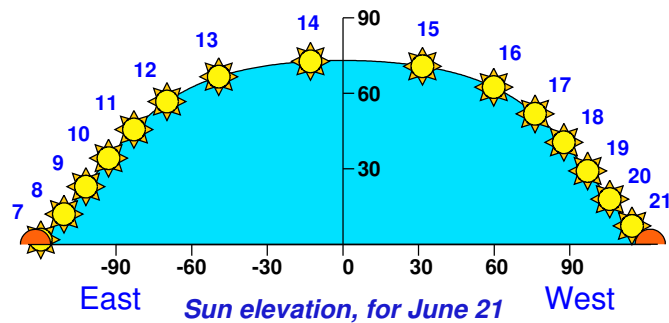
30 150 - 215
06:48 - 21:37 71°

31 151 - 214
06:47 - 21:38 72°

June 2018

Madrid

-3.702°E, 40.416°N



Duration of the day, for June 21

Sunrise and Sunset at Madrid (TL $\pm$ 1 mn) and sun maximal elevation (°)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

22

1 152 - 213
06:47 - 21:39 72°

2 153 - 212
06:47 - 21:40 72°

3 154 - 211
06:46 - 21:40 72°

23

4 155 - 210
06:46 - 21:41 72°

5 156 - 209
06:46 - 21:42 72°

6 157 - 208
06:45 - 21:42 72°

7 158 - 207
06:45 - 21:43 72°

8 159 - 206
06:45 - 21:44 72°

9 160 - 205
06:45 - 21:44 73°

10 161 - 204
06:44 - 21:45 73°

24

11 162 - 203
06:44 - 21:45 73°

12 163 - 202
06:44 - 21:46 73°

13 164 - 201
06:44 - 21:46 73°

14 165 - 200
06:44 - 21:46 73°

15 166 - 199
06:44 - 21:47 73°

16 167 - 198
06:44 - 21:47 73°

17 168 - 197
06:44 - 21:48 73°

25

18 169 - 196
06:44 - 21:48 73°

19 170 - 195
06:45 - 21:48 73°

20 171 - 194
06:45 - 21:48 73°

21 172 - 193
06:45 - 21:49 73°

22 173 - 192
06:45 - 21:49 73°

23 174 - 191
06:45 - 21:49 73°

24 175 - 190
06:46 - 21:49 73°

26

25 176 - 189
06:46 - 21:49 73°

26 177 - 188
06:46 - 21:49 73°

27 178 - 187
06:47 - 21:49 73°

28 179 - 186
06:47 - 21:49 73°

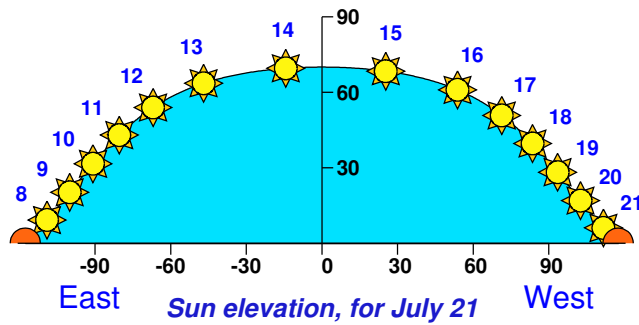
29 180 - 185
06:48 - 21:49 73°

30 181 - 184
06:48 - 21:49 73°

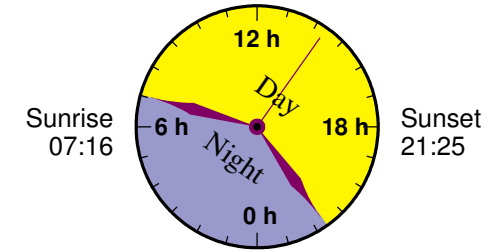
July 2018

Madrid

-3.702°E, 40.416°N



Sunrise and Sunset at Madrid (TL $\pm$ 1 mn) and sun maximal elevation (°)



Duration of the day, for July 21

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

26

27

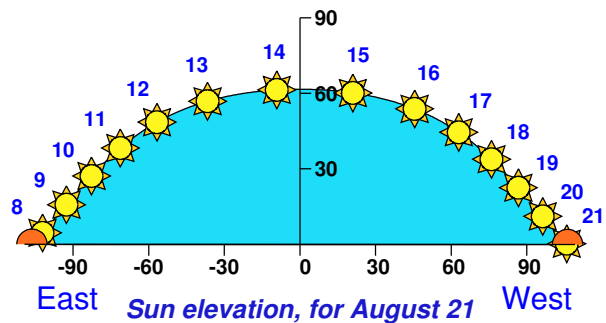
28

29

30

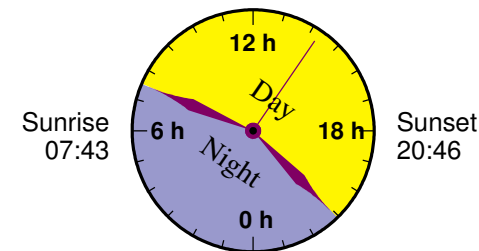
31

						1 182 - 183 06:48 - 21:49 73°
2 183 - 182 06:49 - 21:49 73° 	3 184 - 181 06:49 - 21:49 73° 	4 185 - 180 06:50 - 21:49 72° 	5 186 - 179 06:51 - 21:48 72° 	6 187 - 178 06:51 - 21:48 72° 	7 188 - 177 06:52 - 21:48 72° 	8 189 - 176 06:52 - 21:47 72°
9 190 - 175 06:53 - 21:47 72° 	10 191 - 174 06:54 - 21:47 72° 	11 192 - 173 06:54 - 21:46 72° 	12 193 - 172 06:55 - 21:46 72° 	13 194 - 171 06:56 - 21:45 71° 	14 195 - 170 06:57 - 21:45 71° 	15 196 - 169 06:57 - 21:44 71°
16 197 - 168 06:58 - 21:44 71° 	17 198 - 167 06:59 - 21:43 71° 	18 199 - 166 07:00 - 21:42 71° 	19 200 - 165 07:01 - 21:42 70° 	20 201 - 164 07:01 - 21:41 70° 	21 202 - 163 07:02 - 21:40 70° 	22 203 - 162 07:03 - 21:39 70°
23 204 - 161 07:04 - 21:38 70° 	24 205 - 160 07:05 - 21:38 69° 	25 206 - 159 07:06 - 21:37 69° 	26 207 - 158 07:07 - 21:36 69° 	27 208 - 157 07:08 - 21:35 69° 	28 209 - 156 07:08 - 21:34 69° 	29 210 - 155 07:09 - 21:33 68°
30 211 - 154 07:10 - 21:32 68° 	31 212 - 153 07:11 - 21:31 68° 					



August 2018

Madrid
-3.702°E, 40.416°N



Duration of the day, for August 21

Sunrise and Sunset at Madrid (TL $\pm$ 1 mn) and sun maximal elevation (°)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

31

32

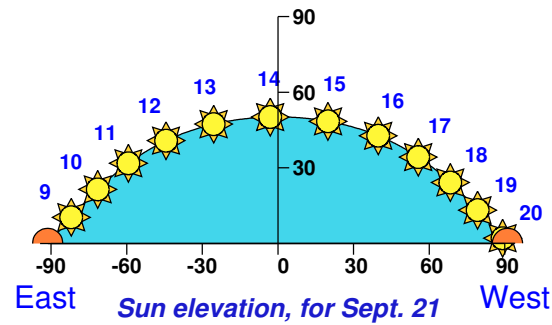
33

34

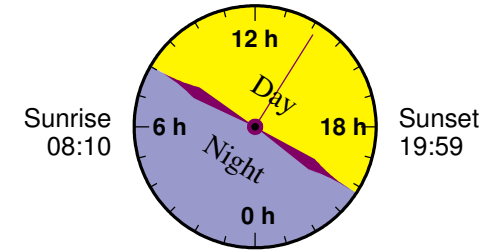
35

		1 213 - 152 07:12 - 21:30 68° 	2 214 - 151 07:13 - 21:29 67° 	3 215 - 150 07:14 - 21:28 67° 	4 216 - 149 07:15 - 21:27 67° 	5 217 - 148 07:16 - 21:25 66°
6 218 - 147 07:17 - 21:24 66° 	7 219 - 146 07:18 - 21:23 66° 	8 220 - 145 07:19 - 21:22 66° 	9 221 - 144 07:20 - 21:21 65° 	10 222 - 143 07:21 - 21:19 65° 	11 223 - 142 07:22 - 21:18 65° 	12 224 - 141 07:23 - 21:17 64°
13 225 - 140 07:24 - 21:15 64° 	14 226 - 139 07:25 - 21:14 64° 	15 227 - 138 07:26 - 21:13 64° 	16 228 - 137 07:27 - 21:11 63° 	17 229 - 136 07:28 - 21:10 63° 	18 230 - 135 07:29 - 21:08 63° 	19 231 - 134 07:30 - 21:07 62°
20 232 - 133 07:31 - 21:06 62° 	21 233 - 132 07:31 - 21:04 62° 	22 234 - 131 07:32 - 21:03 61° 	23 235 - 130 07:33 - 21:01 61° 	24 236 - 129 07:34 - 21:00 61° 	25 237 - 128 07:35 - 20:58 60° 	26 238 - 127 07:36 - 20:57 60°
27 239 - 126 07:37 - 20:55 60° 	28 240 - 125 07:38 - 20:53 59° 	29 241 - 124 07:39 - 20:52 59° 	30 242 - 123 07:40 - 20:50 59° 	31 243 - 122 07:41 - 20:49 58° 		

September 2018



Madrid
-3.702°E, 40.416°N



Duration of the day, for September 21

Sunrise and Sunset at Madrid (TL $\pm$ 1 mn) and sun maximal elevation (°)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

35

36

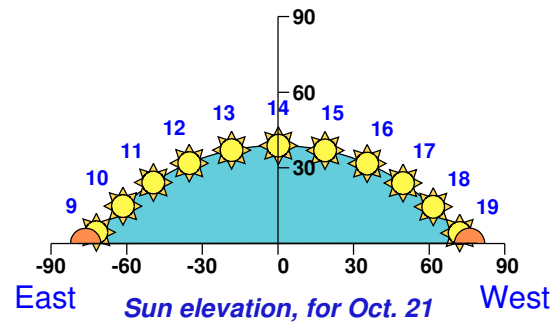
37

38

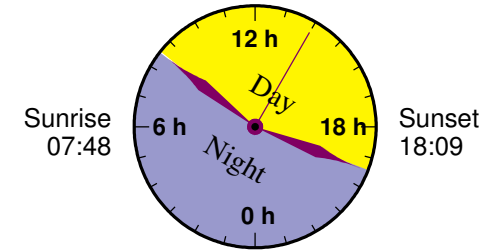
39

1 244 - 121 07:42 - 20:47 58° 	2 245 - 120 07:43 - 20:46 57°
3 246 - 119 07:44 - 20:44 57° 	4 247 - 118 07:45 - 20:42 57°
5 248 - 117 07:46 - 20:41 56° 	6 249 - 116 07:47 - 20:39 56°
7 250 - 115 07:48 - 20:37 56° 	8 251 - 114 07:49 - 20:36 55°
9 252 - 113 07:50 - 20:34 55° 	10 253 - 112 07:51 - 20:32 54°
11 254 - 111 07:52 - 20:31 54° 	12 255 - 110 07:53 - 20:29 54°
13 256 - 109 07:54 - 20:27 53° 	14 257 - 108 07:55 - 20:26 53°
15 258 - 107 07:56 - 20:24 53° 	16 259 - 106 07:57 - 20:22 52°
17 260 - 105 07:57 - 20:21 52° 	18 261 - 104 07:58 - 20:19 51°
19 262 - 103 07:59 - 20:17 51° 	20 263 - 102 08:00 - 20:16 51°
21 264 - 101 08:01 - 20:14 50° 	22 265 - 100 08:02 - 20:12 50°
23 266 - 99 08:03 - 20:11 49° 	24 267 - 98 08:04 - 20:09 49°
25 268 - 97 08:05 - 20:07 49° 	26 269 - 96 08:06 - 20:06 48°
27 270 - 95 08:07 - 20:04 48° 	28 271 - 94 08:08 - 20:02 47°
29 272 - 93 08:09 - 20:01 47° 	30 273 - 92 08:10 - 19:59 47°

October 2018



Madrid
-3.702°E, 40.416°N

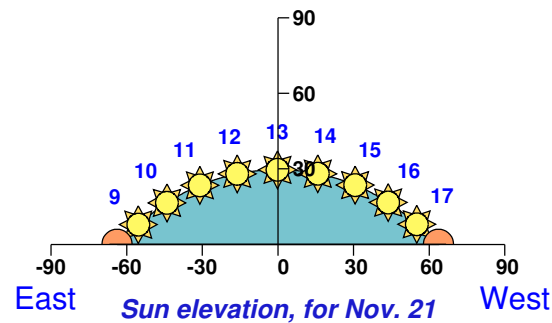


Duration of the day, for October 21

Sunrise and Sunset at Madrid (TL $\pm$ 1 mn) and sun maximal elevation (°)

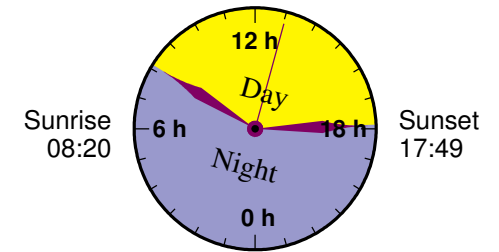
Time change October 28

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
40	1 274 - 91 08:11 - 19:57 46° 	2 275 - 90 08:12 - 19:56 46° 	3 276 - 89 08:13 - 19:54 46° 	4 277 - 88 08:14 - 19:53 45° 	5 278 - 87 08:15 - 19:51 45° 	6 279 - 86 08:16 - 19:49 44° 	7 280 - 85 08:17 - 19:48 44°
41	8 281 - 84 08:18 - 19:46 44° 	9 282 - 83 08:19 - 19:45 43° 	10 283 - 82 08:20 - 19:43 43° 	11 284 - 81 08:21 - 19:41 42° 	12 285 - 80 08:22 - 19:40 42° 	13 286 - 79 08:24 - 19:38 42° 	14 287 - 78 08:25 - 19:37 41°
42	15 288 - 77 08:26 - 19:35 41° 	16 289 - 76 08:27 - 19:34 41° 	17 290 - 75 08:28 - 19:32 40° 	18 291 - 74 08:29 - 19:31 40° 	19 292 - 73 08:30 - 19:29 40° 	20 293 - 72 08:31 - 19:28 39° 	21 294 - 71 08:32 - 19:26 39°
43	22 295 - 70 08:33 - 19:25 38° 	23 296 - 69 08:34 - 19:24 38° 	24 297 - 68 08:35 - 19:22 38° 	25 298 - 67 08:37 - 19:21 37° 	26 299 - 66 08:38 - 19:20 37° 	27 300 - 65 08:39 - 19:18 37° 	28 301 - 64 07:40 - 18:17 36°
44	29 302 - 63 07:41 - 18:16 36° 	30 303 - 62 07:42 - 18:14 36° 	31 304 - 61 07:43 - 18:13 35° 				



November 2018

Madrid
-3.702°E, 40.416°N



Duration of the day, for November 21

Sunrise and Sunset at Madrid (TL $\pm$ 1 mn) and sun maximal elevation (°)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

44

1 305 - 60 07:45 - 18:12 35° 	2 306 - 59 07:46 - 18:11 35° 	3 307 - 58 07:47 - 18:10 34° 	4 308 - 57 07:48 - 18:09 34°
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45

5 309 - 56 07:49 - 18:07 34° 	6 310 - 55 07:50 - 18:06 34° 	7 311 - 54 07:52 - 18:05 33° 	8 312 - 53 07:53 - 18:04 33° 	9 313 - 52 07:54 - 18:03 33° 	10 314 - 51 07:55 - 18:02 32° 	11 315 - 50 07:56 - 18:01 32°
--	--	--	--	--	---	---

46

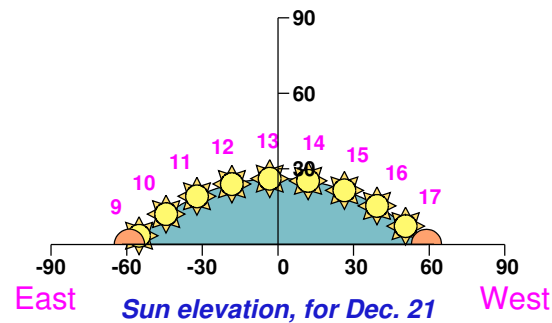
12 316 - 49 07:57 - 18:00 32° 	13 317 - 48 07:59 - 18:00 32° 	14 318 - 47 08:00 - 17:59 31° 	15 319 - 46 08:01 - 17:58 31° 	16 320 - 45 08:02 - 17:57 31° 	17 321 - 44 08:03 - 17:56 31° 	18 322 - 43 08:04 - 17:56 30°
---	---	---	---	---	---	---

47

19 323 - 42 08:06 - 17:55 30° 	20 324 - 41 08:07 - 17:54 30° 	21 325 - 40 08:08 - 17:54 30° 	22 326 - 39 08:09 - 17:53 29° 	23 327 - 38 08:10 - 17:52 29° 	24 328 - 37 08:11 - 17:52 29° 	25 329 - 36 08:12 - 17:51 29°
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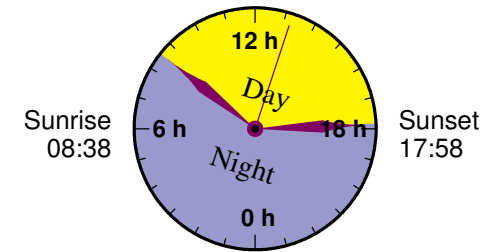
48

26 330 - 35 08:13 - 17:51 29° 	27 331 - 34 08:14 - 17:50 28° 	28 332 - 33 08:15 - 17:50 28° 	29 333 - 32 08:17 - 17:50 28° 	30 334 - 31 08:18 - 17:49 28°
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December 2018

Madrid
-3.702°E, 40.416°N



Duration of the day, for December 21

Sunrise and Sunset at Madrid (TL $\pm$ 1 mn) and sun maximal elevation (°)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

48

49

50

51

52

53

1 335 - 30 08:19 - 17:49 28° 	2 336 - 29 08:20 - 17:49 28°
3 337 - 28 08:21 - 17:49 27° 	4 338 - 27 08:22 - 17:49 27°
5 339 - 26 08:23 - 17:48 27° 	6 340 - 25 08:23 - 17:48 27°
7 341 - 24 08:24 - 17:48 27° 	8 342 - 23 08:25 - 17:48 27°
9 343 - 22 08:26 - 17:48 27° 	10 344 - 21 08:27 - 17:48 27°
11 345 - 20 08:28 - 17:48 27° 	12 346 - 19 08:29 - 17:49 27°
13 347 - 18 08:29 - 17:49 26° 	14 348 - 17 08:30 - 17:49 26°
15 349 - 16 08:31 - 17:49 26° 	16 350 - 15 08:31 - 17:50 26°
17 351 - 14 08:32 - 17:50 26° 	18 352 - 13 08:33 - 17:50 26°
19 353 - 12 08:33 - 17:51 26° 	20 354 - 11 08:34 - 17:51 26°
21 355 - 10 08:34 - 17:52 26° 	22 356 - 9 08:35 - 17:52 26°
23 357 - 8 08:35 - 17:53 26° 	24 358 - 7 08:36 - 17:53 26°
25 359 - 6 08:36 - 17:54 26° 	26 360 - 5 08:37 - 17:54 26°
27 361 - 4 08:37 - 17:55 26° 	28 362 - 3 08:37 - 17:56 26°
29 363 - 2 08:38 - 17:57 26° 	30 364 - 1 08:38 - 17:57 26°

31 365 - 0 08:38 - 17:58 27°
