

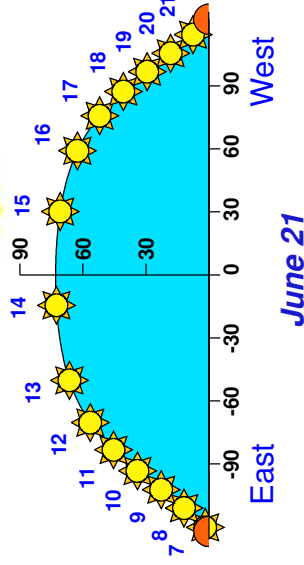
Sun Calendar 2024

Produced by *ScientiDev*
www.scientidev.fr

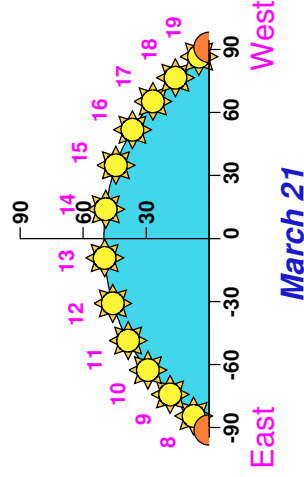
Madrid
-3.7°E, 40.42°N



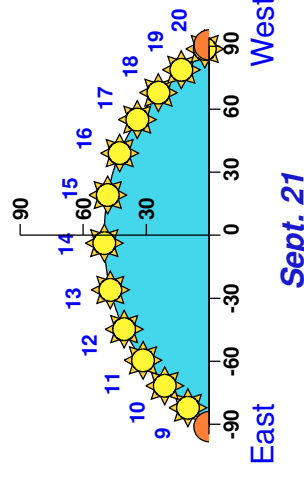
Summer



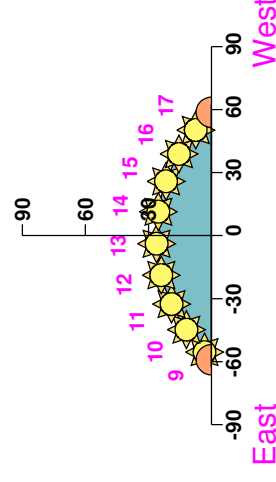
Spring



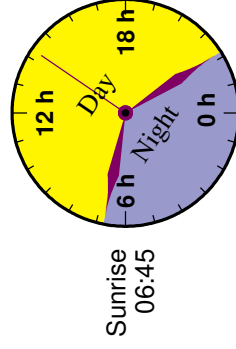
Autumn



Winter

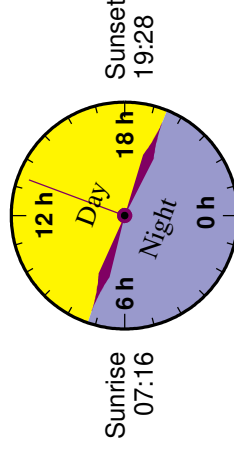


Day duration 15:04



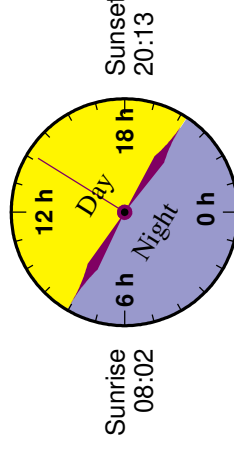
Summer Solstice

Day duration 12:12



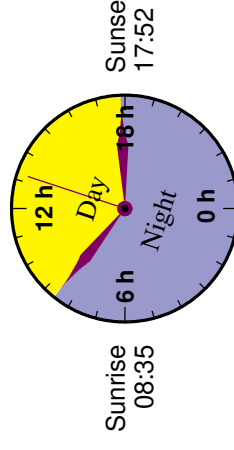
Spring Equinox

Day duration 12:11

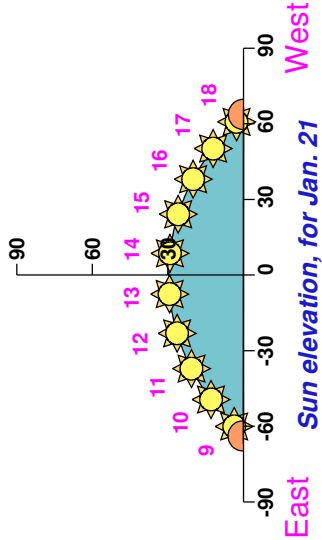


Autumn Equinox

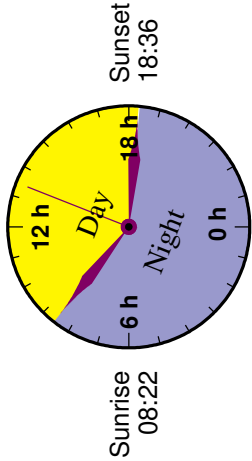
Day duration 9:17



January 2024



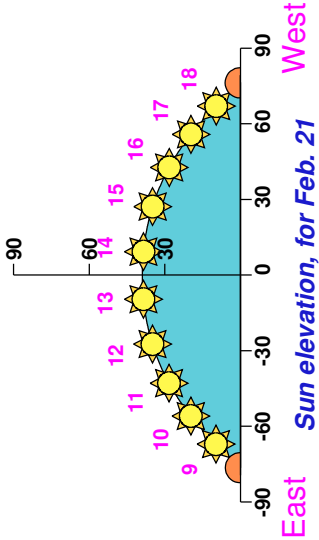
Madrid
-3.7°E, 40.42°N



Duration of the day, for January 21

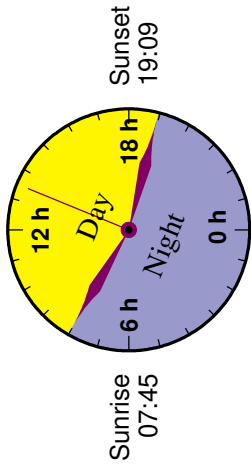
Sunrise and Sunset at Madrid (TL ± 1 mn) and sun maximal elevation (°)

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1	1 - 365 08:38 - 17:59 27°	2 - 364 08:38 - 18:00 27°	3 - 363 08:38 - 18:00 27°	4 - 362 08:38 - 18:01 27°	5 - 361 08:38 - 18:02 27°	6 - 360 08:38 - 18:03 27°	7 - 359 08:38 - 18:04 27°
2	8 - 358 08:38 - 18:05 27°	9 - 357 08:38 - 18:06 27°	10 - 356 08:38 - 18:07 28°	11 - 355 08:38 - 18:08 28°	12 - 354 08:37 - 18:09 28°	13 - 353 08:37 - 18:10 28°	14 - 352 08:37 - 18:11 28°
3	15 - 351 08:36 - 18:12 28°	16 - 350 08:36 - 18:14 29°	17 - 349 08:35 - 18:15 29°	18 - 348 08:35 - 18:16 29°	19 - 347 08:34 - 18:17 29°	20 - 346 08:34 - 18:18 29°	21 - 345 08:33 - 18:19 30°
4	22 - 344 08:33 - 18:20 30°	23 - 343 08:32 - 18:22 30°	24 - 342 08:31 - 18:23 30°	25 - 341 08:31 - 18:24 31°	26 - 340 08:30 - 18:25 31°	27 - 339 08:29 - 18:26 31°	28 - 338 08:28 - 18:28 31°
5	29 - 337 08:28 - 18:29 32°	30 - 336 08:27 - 18:30 32°	31 - 335 08:26 - 18:31 32°				



February 2024

Madrid
-3.7°E, 40.42°N

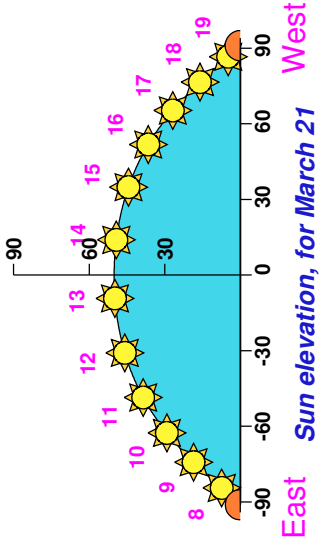


East Sun elevation, for Feb. 21 West

Duration of the day, for February 21

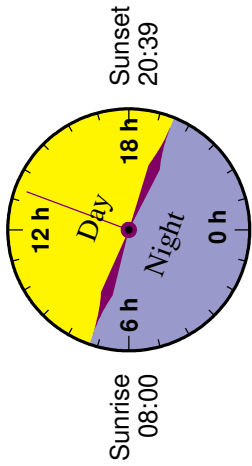
Sunrise and Sunset at Madrid (TL $\pm$ 1 mn) and sun maximal elevation (°)

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
5 36 - 330 08:21 - 18:37 34°	6 37 - 329 08:20 - 18:39 34°	7 38 - 328 08:19 - 18:40 34°	1 32 - 334 08:25 - 18:32 32°	2 33 - 333 08:24 - 18:34 33°	3 34 - 332 08:23 - 18:35 33°	4 35 - 331 08:22 - 18:36 33°
12 43 - 323 08:13 - 18:46 36°	13 44 - 322 08:12 - 18:47 36°	14 45 - 321 08:11 - 18:48 37°	8 39 - 327 08:18 - 18:41 35°	9 40 - 326 08:17 - 18:42 35°	10 41 - 325 08:15 - 18:43 35°	11 42 - 324 08:14 - 18:45 36°
19 50 - 316 08:04 - 18:54 38°	20 51 - 315 08:03 - 18:55 39°	21 52 - 314 08:01 - 18:57 39°	15 46 - 320 08:09 - 18:49 37°	16 47 - 319 08:08 - 18:51 37°	17 48 - 318 08:07 - 18:52 38°	18 49 - 317 08:05 - 18:53 38°
26 57 - 309 07:54 - 19:02 41°	27 58 - 308 07:53 - 19:03 41°	28 59 - 307 07:51 - 19:05 42°	22 53 - 313 08:00 - 18:58 39°	23 54 - 312 07:58 - 18:59 40°	24 55 - 311 07:57 - 19:00 40°	25 56 - 310 07:56 - 19:01 40°



March 2024

Madrid
-3.7°E, 40.42°N



Sun elevation, for March 21

Duration of the day, for March 21

Sunrise and Sunset at Madrid (TL ± 1 mn) and sun maximal elevation (°)

Time change March 31

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
4 07:43 - 19:10 43°	5 07:42 - 19:11 44°	6 07:40 - 19:12 44°	7 07:39 - 19:14 45°	1 07:48 - 19:07 42°	2 07:47 - 19:08 43°	3 07:45 - 19:09 43°
11 07:32 - 19:18 46°	12 07:31 - 19:19 47°	13 07:29 - 19:20 47°	14 07:28 - 19:21 47°	8 07:37 - 19:15 45°	9 07:36 - 19:16 45°	10 07:34 - 19:17 46°
18 07:21 - 19:25 49°	19 07:19 - 19:26 49°	20 07:18 - 19:27 50°	21 07:16 - 19:28 50°	15 07:26 - 19:22 48°	16 07:24 - 19:23 48°	17 07:23 - 19:24 49°
25 07:10 - 19:33 52°	26 07:08 - 19:34 52°	27 07:06 - 19:35 52°	28 07:05 - 19:36 53°	22 07:15 - 19:30 51°	23 07:13 - 19:31 51°	24 07:11 - 19:32 51°
				29 07:03 - 19:37 53°	30 07:01 - 19:38 54°	31 08:00 - 20:39 54°

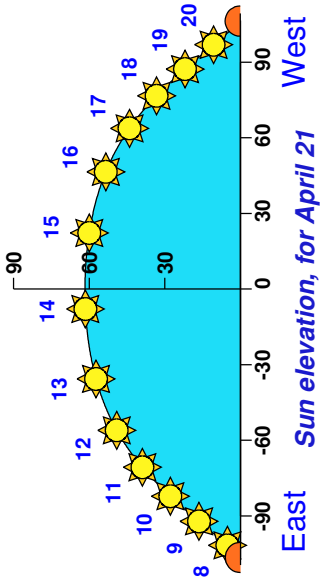
9

10

11

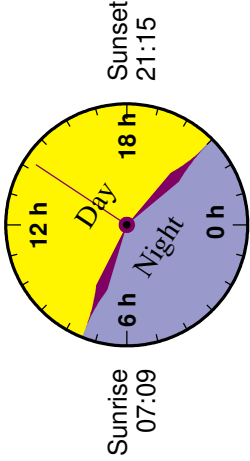
12

13



April 2024

Madrid
-3.7°E, 40.42°N

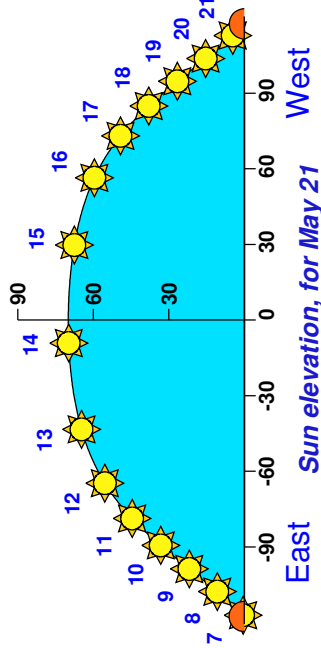


Sun elevation, for April 21

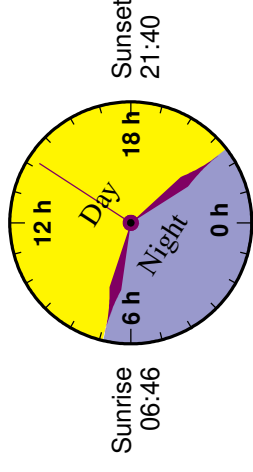
Duration of the day, for April 21

Sunrise and Sunset at Madrid (TL ± 1 mn) and sun maximal elevation (°)

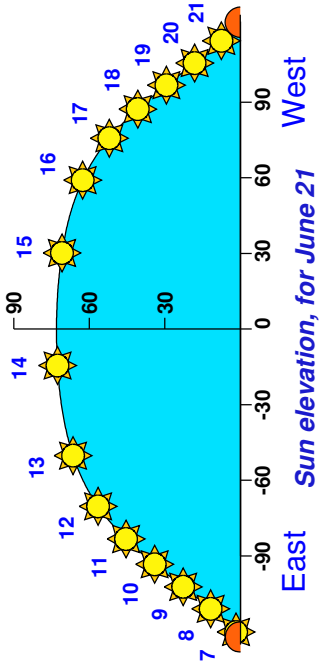
Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
1	92 - 274 07:58 - 20:40 54°	2	93 - 273 07:57 - 20:41 55°	3	94 - 272 07:55 - 20:42 55°	4	95 - 271 07:53 - 20:43 56°	5	96 - 270 07:52 - 20:44 56°	6	97 - 269 07:50 - 20:45 56°	7	98 - 268 07:48 - 20:46 57°
8	99 - 267 07:47 - 20:47 57°	9	100 - 266 07:45 - 20:48 57°	10	101 - 265 07:44 - 20:49 58°	11	102 - 264 07:42 - 20:50 58°	12	103 - 263 07:41 - 20:51 59°	13	104 - 262 07:39 - 20:52 59°	14	105 - 261 07:38 - 20:53 59°
15	106 - 260 07:36 - 20:54 60°	16	107 - 259 07:35 - 20:55 60°	17	108 - 258 07:33 - 20:56 60°	18	109 - 257 07:32 - 20:58 61°	19	110 - 256 07:30 - 20:59 61°	20	111 - 255 07:29 - 21:00 61°	21	112 - 254 07:27 - 21:01 62°
22	113 - 253 07:26 - 21:02 62°	23	114 - 252 07:24 - 21:03 62°	24	115 - 251 07:23 - 21:04 63°	25	116 - 250 07:22 - 21:05 63°	26	117 - 249 07:20 - 21:06 63°	27	118 - 248 07:19 - 21:07 64°	28	119 - 247 07:18 - 21:08 64°
29	120 - 246 07:16 - 21:09 64°	30	121 - 245 07:15 - 21:10 65°										



-3.7°E, 40.42°N

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

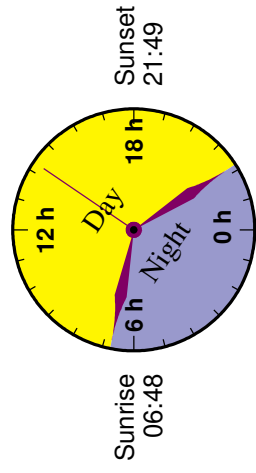
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
18 6 127 - 239 07:08 - 21:16 66°	19 7 128 - 238 07:07 - 21:17 67°	20 1 122 - 244 07:14 - 21:11 65°	21 2 123 - 243 07:13 - 21:12 65°	22 3 124 - 242 07:11 - 21:13 65°	23 4 125 - 241 07:10 - 21:14 66°	24 5 126 - 240 07:09 - 21:15 66°
19 13 134 - 232 07:00 - 21:23 68°	20 14 135 - 231 06:59 - 21:24 68°	21 8 129 - 237 07:05 - 21:18 67°	22 9 130 - 236 07:04 - 21:19 67°	23 10 131 - 235 07:03 - 21:20 67°	24 11 132 - 234 07:02 - 21:21 68°	25 12 133 - 233 07:01 - 21:22 68°
20 13 134 - 232 07:00 - 21:23 68°	21 14 135 - 231 06:59 - 21:24 68°	22 15 136 - 230 06:58 - 21:25 69°	23 16 137 - 229 06:57 - 21:26 69°	24 17 138 - 228 06:57 - 21:27 69°	25 18 139 - 227 06:56 - 21:28 69°	26 19 140 - 226 06:55 - 21:29 70°
21 20 141 - 225 06:54 - 21:30 70°	22 21 142 - 224 06:53 - 21:30 70°	23 22 143 - 223 06:53 - 21:31 70°	24 23 144 - 222 06:52 - 21:32 70°	25 24 145 - 221 06:51 - 21:33 70°	26 25 146 - 220 06:50 - 21:34 71°	27 26 147 - 219 06:50 - 21:35 71°
22 27 148 - 218 06:49 - 21:36 71°	23 28 149 - 217 06:49 - 21:36 71°	24 29 150 - 216 06:48 - 21:37 71°	25 30 151 - 215 06:48 - 21:38 71°	26 31 152 - 214 06:47 - 21:39 72°		



June 2024

Madrid

-3.7°E, 40.42°N



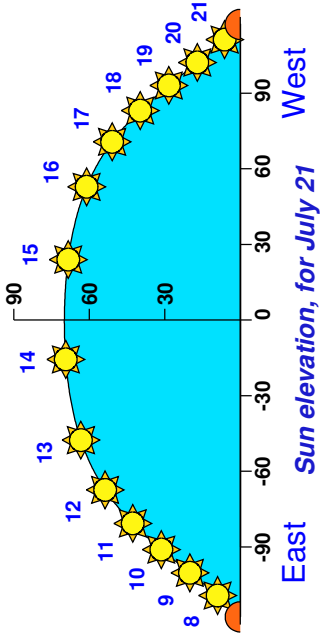
Sun elevation, for June 21

Duration of the day, for June 21

Sunrise and Sunset at Madrid (TL ± 1 mn) and sun maximal elevation (°)

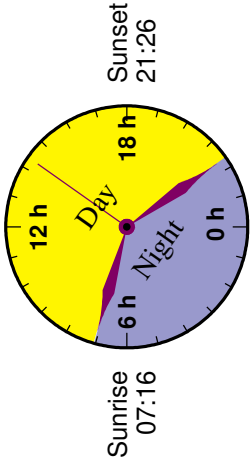
Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
22	3 155 - 211 06:46 - 21:41 72°	4 156 - 210 06:46 - 21:41 72°	5 157 - 209 06:45 - 21:42 72°	6 158 - 208 06:45 - 21:43 72°	7 159 - 207 06:45 - 21:43 72°	8 160 - 206 06:45 - 21:44 72°	9 161 - 205 06:45 - 21:44 73°	10 162 - 204 06:44 - 21:45 73°	11 163 - 203 06:44 - 21:45 73°	12 164 - 202 06:44 - 21:46 73°	13 165 - 201 06:44 - 21:46 73°	14 166 - 200 06:44 - 21:47 73°	15 167 - 199 06:44 - 21:47 73°
	17 169 - 197 06:44 - 21:48 73°	18 170 - 196 06:44 - 21:48 73°	19 171 - 195 06:45 - 21:48 73°	20 172 - 194 06:45 - 21:49 73°	21 173 - 193 06:45 - 21:49 73°	22 174 - 192 06:45 - 21:49 73°	23 175 - 191 06:46 - 21:49 73°	24 176 - 190 06:46 - 21:49 73°	25 177 - 189 06:46 - 21:49 73°	26 178 - 188 06:47 - 21:49 73°	27 179 - 187 06:47 - 21:49 73°	28 180 - 186 06:47 - 21:49 73°	29 181 - 185 06:48 - 21:49 73°
	23	24	25	26	27	28	29	30	1	2	3	4	5

153 - 213
06:47 - 21:39 72°



July 2024

Madrid
-3.7°E, 40.42°N

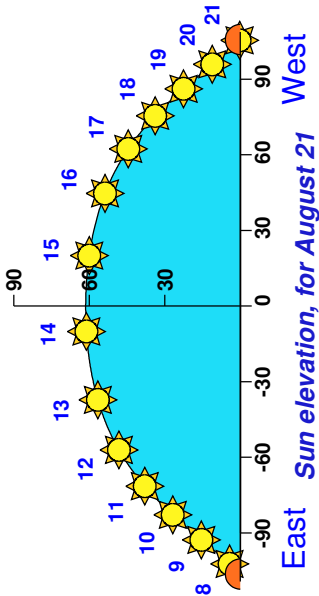


Sun elevation, for July 21

Duration of the day, for July 21

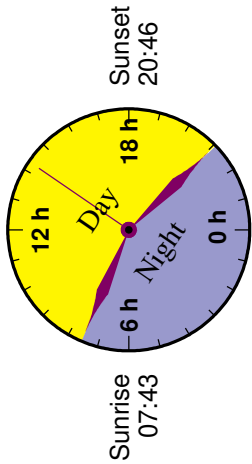
Sunrise and Sunset at Madrid (TL $\pm$ 1 mn) and sun maximal elevation (°)

Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
1	183 - 183 06:49 - 21:49 73°	2	184 - 182 06:49 - 21:49 73°	3	185 - 181 06:50 - 21:49 72°	4	186 - 180 06:50 - 21:48 72°	5	187 - 179 06:51 - 21:48 72°	6	188 - 178 06:52 - 21:48 72°	7	189 - 177 06:52 - 21:48 72°
8	190 - 176 06:53 - 21:47 72°	9	191 - 175 06:53 - 21:47 72°	10	192 - 174 06:54 - 21:46 72°	11	193 - 173 06:55 - 21:46 72°	12	194 - 172 06:56 - 21:45 71°	13	195 - 171 06:56 - 21:45 71°	14	196 - 170 06:57 - 21:44 71°
15	197 - 169 06:58 - 21:44 71°	16	198 - 168 06:59 - 21:43 71°	17	199 - 167 06:59 - 21:43 71°	18	200 - 166 07:00 - 21:42 70°	19	201 - 165 07:01 - 21:41 70°	20	202 - 164 07:02 - 21:40 70°	21	203 - 163 07:03 - 21:40 70°
22	204 - 162 07:04 - 21:39 70°	23	205 - 161 07:04 - 21:38 69°	24	206 - 160 07:05 - 21:37 69°	25	207 - 159 07:06 - 21:36 69°	26	208 - 158 07:07 - 21:35 69°	27	209 - 157 07:08 - 21:34 69°	28	210 - 156 07:09 - 21:33 68°
29	211 - 155 07:10 - 21:32 68°	30	212 - 154 07:11 - 21:31 68°	31	213 - 153 07:12 - 21:30 68°								



August 2024

Madrid
-3.7°E, 40.42°N



Duration of the day, for August 21

Sunrise and Sunset at Madrid (TL ± 1 mn) and sun maximal elevation (°)

Sun elevation, for August 21

Monday Tuesday Wednesday Thursday Friday Saturday Sunday

5 218 - 148 07:17 - 21:25 66°	6 219 - 147 07:17 - 21:24 66°	7 220 - 146 07:18 - 21:22 66°	1 214 - 152 07:13 - 21:29 67°	2 215 - 151 07:14 - 21:28 67°	3 216 - 150 07:15 - 21:27 67°	4 217 - 149 07:16 - 21:26 67°
12 225 - 141 07:23 - 21:16 64°	13 226 - 140 07:24 - 21:15 64°	14 227 - 139 07:25 - 21:13 64°	8 221 - 145 07:19 - 21:21 65°	9 222 - 144 07:20 - 21:20 65°	10 223 - 143 07:21 - 21:19 65°	11 224 - 142 07:22 - 21:17 65°
19 232 - 134 07:30 - 21:06 62°	20 233 - 133 07:31 - 21:05 62°	21 234 - 132 07:32 - 21:03 61°	15 228 - 138 07:26 - 21:12 63°	16 229 - 137 07:27 - 21:10 63°	17 230 - 136 07:28 - 21:09 63°	18 231 - 135 07:29 - 21:08 62°
26 239 - 127 07:37 - 20:56 60°	27 240 - 126 07:38 - 20:54 59°	28 241 - 125 07:39 - 20:53 59°	22 235 - 131 07:33 - 21:02 61°	23 236 - 130 07:34 - 21:00 61°	24 237 - 129 07:35 - 20:59 60°	25 238 - 128 07:36 - 20:57 60°

31

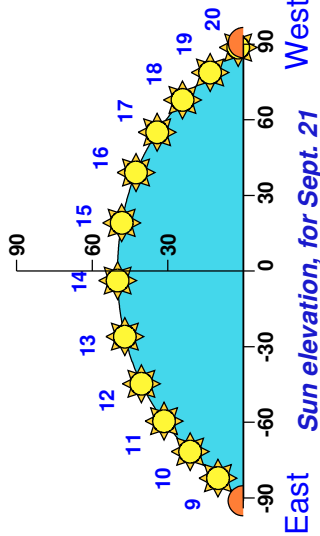
32

33

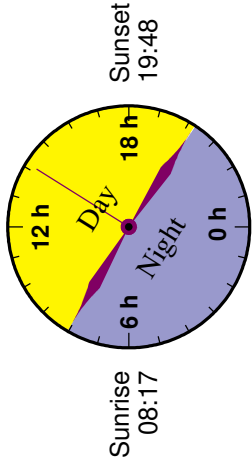
34

35

September 2024



Madrid
-3.7°E, 40.42°N

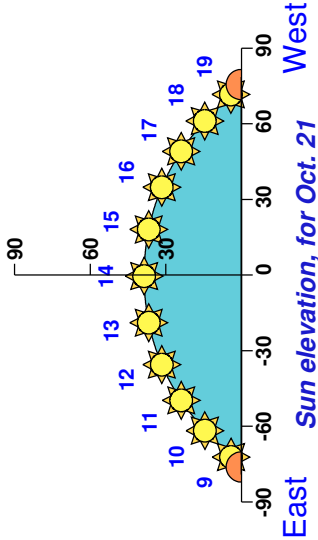


Duration of the day, for September 21

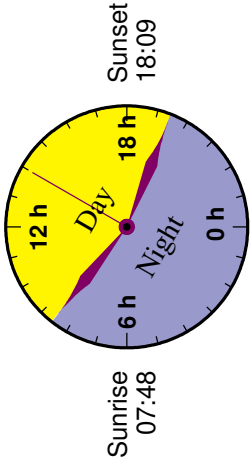
Sunrise and Sunset at Madrid (TL $\pm$ 1 mn) and sun maximal elevation (°)

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
2 07:44 - 20:45 57°	3 07:45 - 20:43 57°	4 07:46 - 20:41 56°	5 07:46 - 20:40 56°	6 07:47 - 20:38 56°	7 07:48 - 20:37 55°	1 07:43 - 20:46 58°
9 07:50 - 20:33 55°	10 07:51 - 20:32 54°	11 07:52 - 20:30 54°	12 07:53 - 20:28 53°	13 07:54 - 20:27 53°	14 07:55 - 20:25 53°	8 07:49 - 20:35 55°
16 07:57 - 20:22 52°	17 07:58 - 20:20 52°	18 07:59 - 20:18 51°	19 08:00 - 20:17 51°	20 08:01 - 20:15 50°	21 08:02 - 20:13 50°	15 07:56 - 20:23 52°
23 08:04 - 20:10 49°	24 08:05 - 20:08 49°	25 08:06 - 20:06 48°	26 08:07 - 20:05 48°	27 08:08 - 20:03 48°	28 08:09 - 20:01 47°	22 08:03 - 20:11 50°
30 08:11 - 19:58 46°						29 08:10 - 20:00 47°

October 2024



Madrid
-3.7°E, 40.42°N



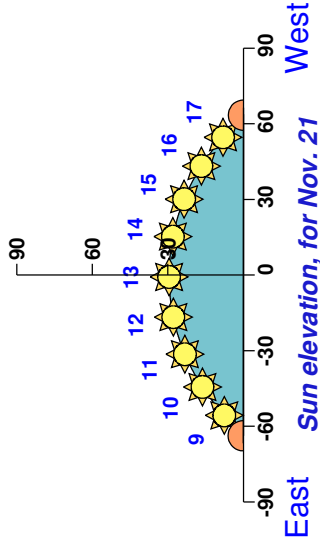
Duration of the day, for October 21

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

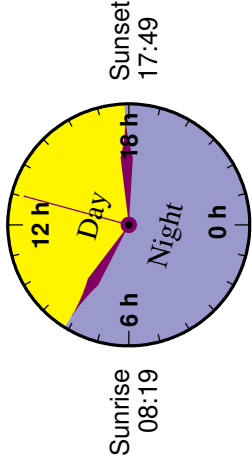
Time change October 27

Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday	
7	281 - 85 08:18 - 19:47 44°	1	275 - 91 08:12 - 19:57 46°	2	276 - 90 08:13 - 19:55 46°	3	277 - 89 08:14 - 19:53 45°	4	278 - 88 08:15 - 19:52 45°	5	279 - 87 08:16 - 19:50 45°	6	280 - 86 08:17 - 19:48 44°
14	288 - 78 08:25 - 19:36 41°	8	282 - 84 08:19 - 19:45 43°	9	283 - 83 08:20 - 19:44 43°	10	284 - 82 08:21 - 19:42 43°	11	285 - 81 08:22 - 19:41 42°	12	286 - 80 08:23 - 19:39 42°	13	287 - 79 08:24 - 19:37 42°
21	295 - 71 08:33 - 19:26 39°	15	289 - 77 08:26 - 19:34 41°	16	290 - 76 08:27 - 19:33 40°	17	291 - 75 08:28 - 19:31 40°	18	292 - 74 08:29 - 19:30 40°	19	293 - 73 08:31 - 19:29 39°	20	294 - 72 08:32 - 19:27 39°
28	302 - 64 07:41 - 18:16 36°	22	296 - 70 08:34 - 19:24 38°	23	297 - 69 08:35 - 19:23 38°	24	298 - 68 08:36 - 19:22 38°	25	299 - 67 08:37 - 19:20 37°	26	300 - 66 08:38 - 19:19 37°	27	301 - 65 07:39 - 18:18 37°

November 2024



Madrid
-3.7°E, 40.42°N



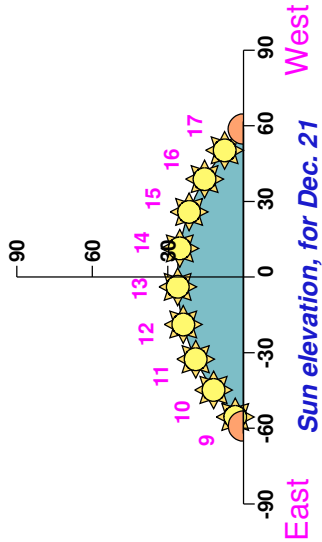
Duration of the day, for November 21

Sunrise and Sunset at Madrid (TL ± 1 mn) and sun maximal elevation (°)

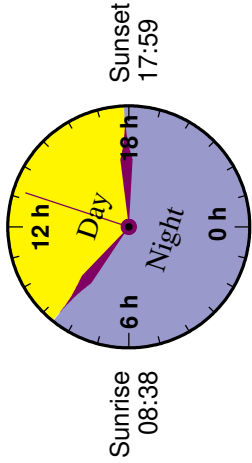
Monday Tuesday Wednesday Thursday Friday Saturday Sunday

4 309 - 57 07:49 - 18:08 34°	5 310 - 56 07:50 - 18:07 34°	6 311 - 55 07:51 - 18:06 33°	7 312 - 54 07:52 - 18:05 33°	8 313 - 53 07:53 - 18:04 33°	2 307 - 59 07:46 - 18:10 35°	3 308 - 58 07:48 - 18:09 34°
11 316 - 50 07:57 - 18:01 32°	12 317 - 49 07:58 - 18:00 32°	13 318 - 48 07:59 - 17:59 31°	14 319 - 47 08:00 - 17:58 31°	15 320 - 46 08:02 - 17:57 31°	9 314 - 52 07:55 - 18:03 33°	10 315 - 51 07:56 - 18:02 32°
18 323 - 43 08:05 - 17:55 30°	19 324 - 42 08:06 - 17:54 30°	20 325 - 41 08:07 - 17:54 30°	21 326 - 40 08:08 - 17:53 30°	22 327 - 39 08:10 - 17:53 29°	16 321 - 45 08:03 - 17:57 31°	17 322 - 44 08:04 - 17:56 30°
25 330 - 36 08:13 - 17:51 29°	26 331 - 35 08:14 - 17:51 29°	27 332 - 34 08:15 - 17:50 28°	28 333 - 33 08:16 - 17:50 28°	29 334 - 32 08:17 - 17:50 28°	23 328 - 38 08:11 - 17:52 29°	24 329 - 37 08:12 - 17:52 29°

December 2024



Madrid
-3.7°E, 40.42°N



Sun elevation, for Dec. 21

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
2 08:20 - 17:49 28°	3 08:21 - 17:49 27°	4 08:22 - 17:48 27°	5 08:23 - 17:48 27°	6 08:24 - 17:48 27°	7 08:25 - 17:48 27°	1 08:19 - 17:49 28°
9 08:27 - 17:48 27°	10 08:27 - 17:48 27°	11 08:28 - 17:49 27°	12 08:29 - 17:49 26°	13 08:30 - 17:49 26°	14 08:30 - 17:49 26°	8 08:26 - 17:48 27°
16 08:32 - 17:50 26°	17 08:32 - 17:50 26°	18 08:33 - 17:50 26°	19 08:34 - 17:51 26°	20 08:34 - 17:51 26°	21 08:35 - 17:52 26°	15 08:31 - 17:49 26°
23 08:36 - 17:53 26°	24 08:36 - 17:54 26°	25 08:36 - 17:54 26°	26 08:37 - 17:55 26°	27 08:37 - 17:55 26°	28 08:37 - 17:56 26°	22 08:35 - 17:52 26°
30 08:38 - 17:58 27°	31 08:38 - 17:59 27°					29 08:38 - 17:57 26°

48

49

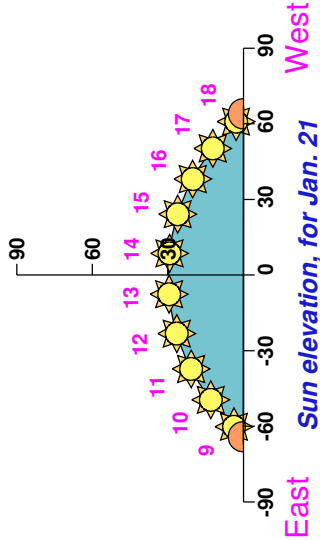
50

51

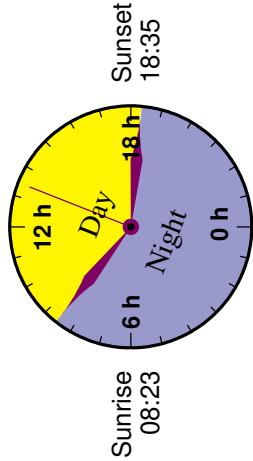
52

53

January 2025



Madrid
-3.7°E, 40.42°N



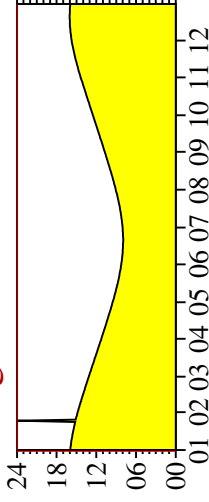
Duration of the day, for January 21

Sunrise and Sunset at Madrid (TL ± 1 mn) and sun maximal elevation (°)

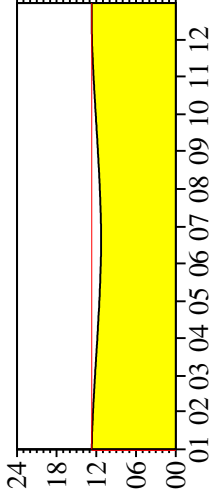
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1	6 08:38 - 18:04 27°		1 08:38 - 17:59 27°	2 08:38 - 18:00 27°	3 08:38 - 18:01 27°	4 08:38 - 18:02 27°	5 08:38 - 18:03 27°
2	13 08:37 - 18:11 28°	7 08:38 - 18:05 27°	8 08:38 - 18:06 27°	9 08:38 - 18:07 28°	10 08:38 - 18:08 28°	11 08:37 - 18:09 28°	12 08:37 - 18:10 28°
3	20 08:34 - 18:19 30°	14 08:36 - 18:12 28°	15 08:36 - 18:13 29°	16 08:36 - 18:14 29°	17 08:35 - 18:15 29°	18 08:35 - 18:17 29°	19 08:34 - 18:18 29°
4	27 08:29 - 18:27 31°	21 08:33 - 18:20 30°	22 08:32 - 18:21 30°	23 08:32 - 18:22 30°	24 08:31 - 18:24 31°	25 08:30 - 18:25 31°	26 08:29 - 18:26 31°
5		28 08:28 - 18:29 32°	29 08:27 - 18:30 32°	30 08:26 - 18:31 32°	31 08:25 - 18:32 32°		

Day duration for any cities for 2024

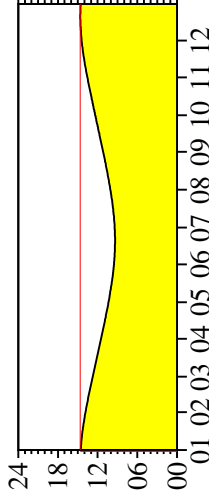
Kerguelen 69.33°E, -49.33°N



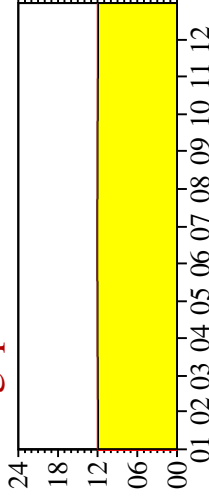
Lima -77.03°E, -12.05°N



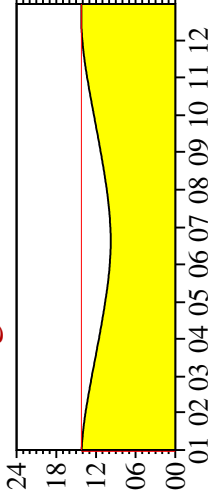
Melbourne 144.97°E, -37.81°N



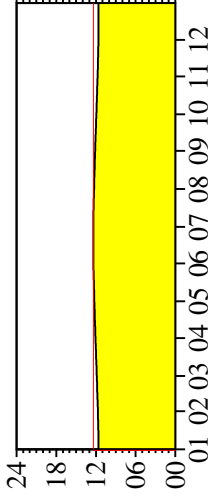
Singapour 103.85°E, 1.03°N



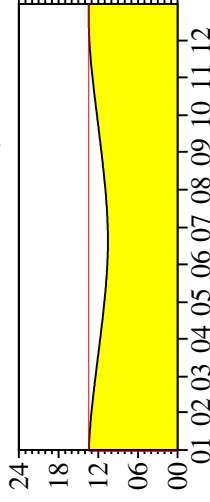
Santiago -70.65°E, -33.43°N



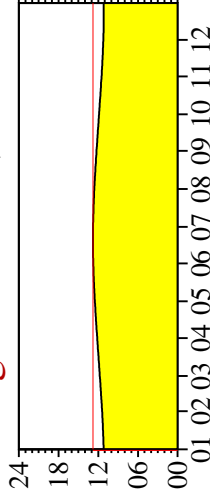
Colombo 79.83°E, 6.92°N



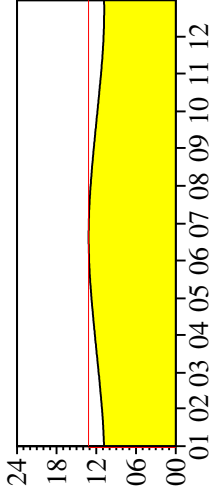
Sao Paulo -46.63°E, -23.55°N



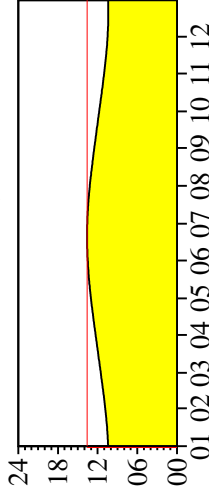
Bangkok 100.49°E, 13.75°N



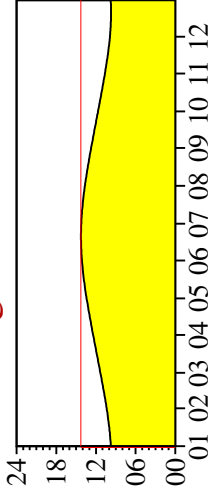
Mexico -99.13°E, 19.43°N



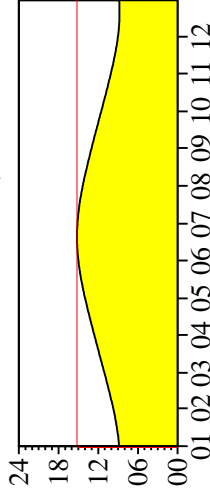
Miami -80.22°E, 25.78°N



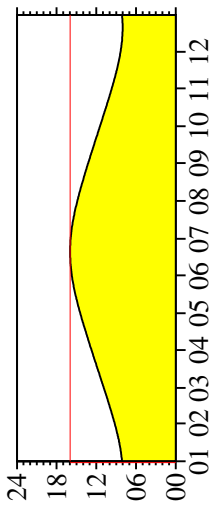
Los Angeles -118.24°E, 34.05°N



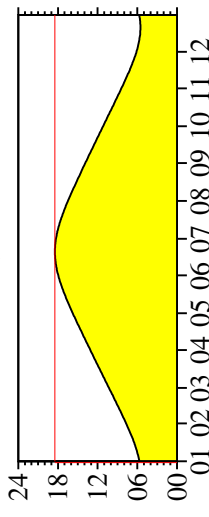
Marseille 5.38°E, 43.3°N



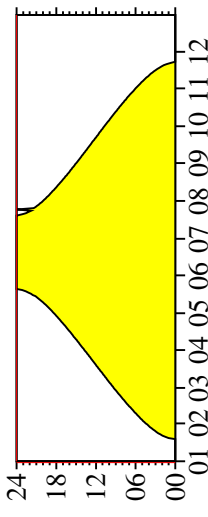
Paris 2.35°E, 48.86°N



Oslo 10.75°E, 59.92°N



Tromso 18.97°E, 69.66°N



Ny Alesund 11.92°E, 78.92°N

