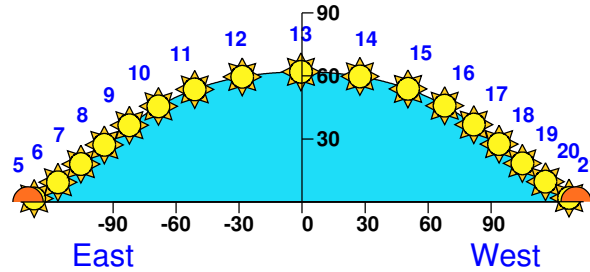


Sun Calendar 2018

Produced by *ScientiDev*
www.scientidev.fr

Londres
0.17°E, 51.5°N

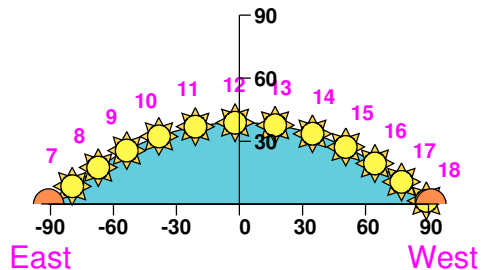
Summer



June 21

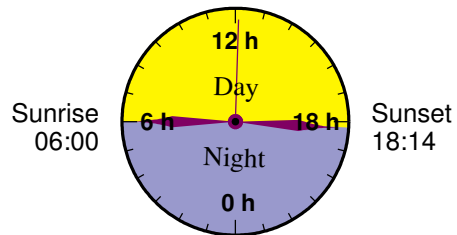


Spring



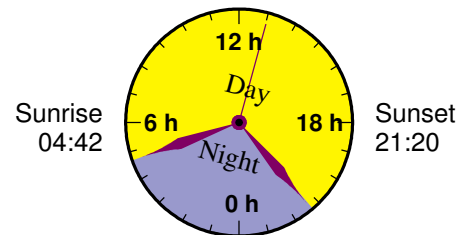
March 21

Day duration 12:14



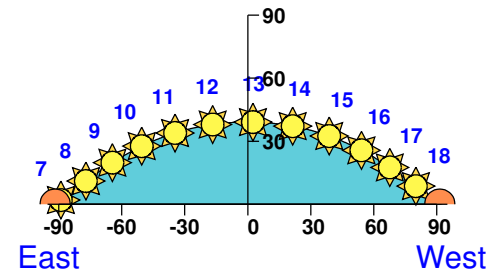
Spring Equinox

Day duration 16:38



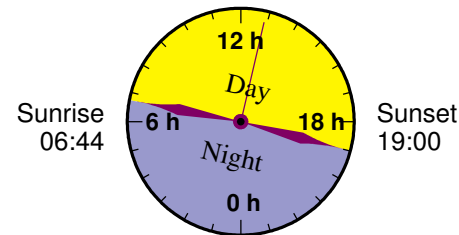
Summer Solstice

Autumn



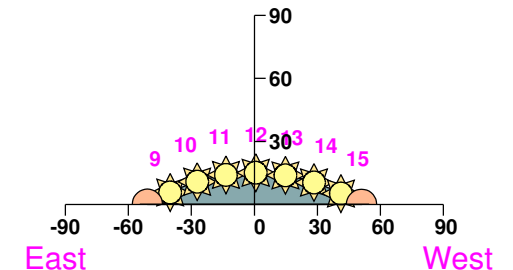
Sept. 21

Day duration 12:17



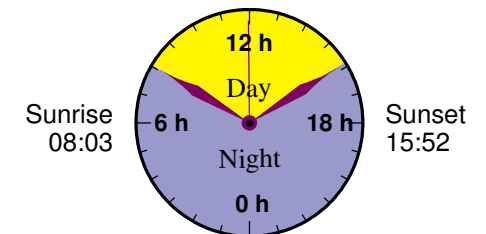
Autumn Equinox

Winter



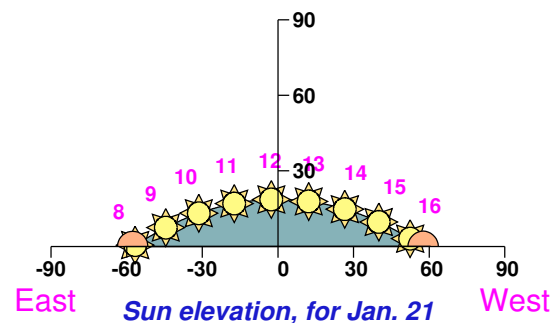
Dec. 21

Day duration 7:49



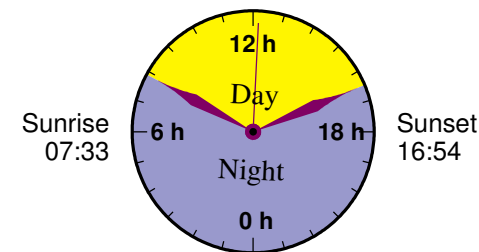
Winter Solstice

January 2018



Londres

0.17°E, 51.5°N

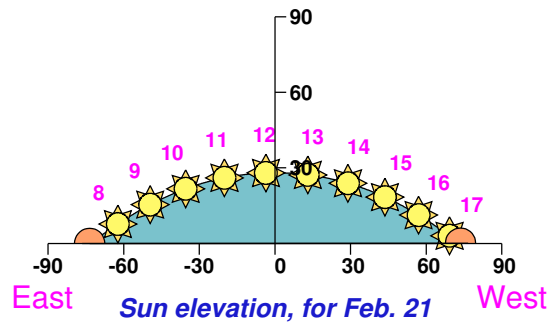


Duration of the day, for January 21

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

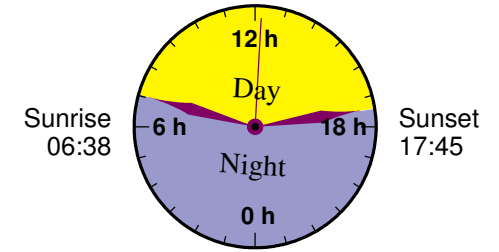
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1	1 1 - 364 08:05 - 16:01 16° 	2 2 - 363 08:05 - 16:02 16° 	3 3 - 362 08:05 - 16:03 16° 	4 4 - 361 08:05 - 16:05 16° 	5 5 - 360 08:04 - 16:06 16° 	6 6 - 359 08:04 - 16:07 16° 	7 7 - 358 08:04 - 16:08 16°
2	8 8 - 357 08:03 - 16:10 16° 	9 9 - 356 08:03 - 16:11 16° 	10 10 - 355 08:02 - 16:12 17° 	11 11 - 354 08:01 - 16:14 17° 	12 12 - 353 08:01 - 16:15 17° 	13 13 - 352 08:00 - 16:17 17° 	14 14 - 351 07:59 - 16:18 17°
3	15 15 - 350 07:58 - 16:20 17° 	16 16 - 349 07:58 - 16:21 18° 	17 17 - 348 07:57 - 16:23 18° 	18 18 - 347 07:56 - 16:25 18° 	19 19 - 346 07:55 - 16:26 18° 	20 20 - 345 07:54 - 16:28 18° 	21 21 - 344 07:53 - 16:29 19°
4	22 22 - 343 07:51 - 16:31 19° 	23 23 - 342 07:50 - 16:33 19° 	24 24 - 341 07:49 - 16:35 19° 	25 25 - 340 07:48 - 16:36 20° 	26 26 - 339 07:46 - 16:38 20° 	27 27 - 338 07:45 - 16:40 20° 	28 28 - 337 07:44 - 16:42 20°
5	29 29 - 336 07:42 - 16:43 21° 	30 30 - 335 07:41 - 16:45 21° 	31 31 - 334 07:39 - 16:47 21° 				

February 2018



Londres

0.17°E, 51.5°N



Duration of the day, for February 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

5

6

7

8

9

1

32 - 333
07:38 - 16:49 22°

2

33 - 332
07:36 - 16:51 22°

3

34 - 331
07:35 - 16:52 22°

4

35 - 330
07:33 - 16:54 22°

5

36 - 329
07:31 - 16:56 23°

6

37 - 328
07:30 - 16:58 23°

7

38 - 327
07:28 - 17:00 23°

8

39 - 326
07:26 - 17:02 24°

9

40 - 325
07:25 - 17:03 24°

10

41 - 324
07:23 - 17:05 24°

11

42 - 323
07:21 - 17:07 25°

12

43 - 322
07:19 - 17:09 25°

13

44 - 321
07:17 - 17:11 25°

14

45 - 320
07:15 - 17:13 26°

15

46 - 319
07:14 - 17:14 26°

16

47 - 318
07:12 - 17:16 26°

17

48 - 317
07:10 - 17:18 27°

18

49 - 316
07:08 - 17:20 27°

19

50 - 315
07:06 - 17:22 27°

20

51 - 314
07:04 - 17:24 28°

21

52 - 313
07:02 - 17:25 28°

22

53 - 312
07:00 - 17:27 28°

23

54 - 311
06:58 - 17:29 29°

24

55 - 310
06:56 - 17:31 29°

25

56 - 309
06:53 - 17:33 30°

26

57 - 308
06:51 - 17:34 30°

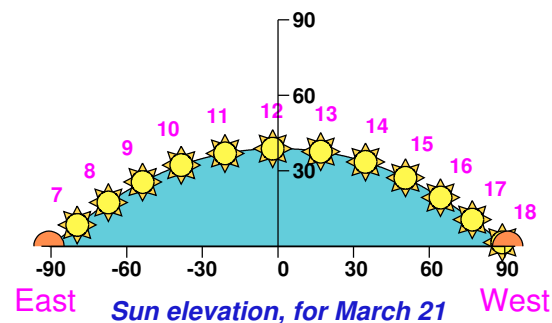
27

58 - 307
06:49 - 17:36 30°

28

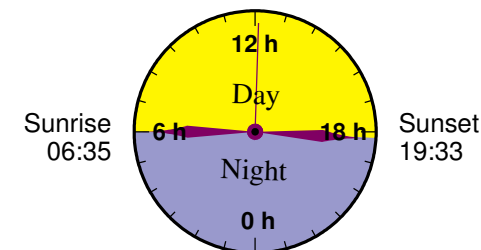
59 - 306
06:47 - 17:38 31°

March 2018



Londres

0.17°E, 51.5°N



Duration of the day, for March 21

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

Time change March 25

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

9

1 60 - 305
06:45 - 17:40 31°

2 61 - 304
06:43 - 17:41 31°

3 62 - 303
06:41 - 17:43 32°

4 63 - 302
06:38 - 17:45 32°

10

5 64 - 301
06:36 - 17:47 33°

6 65 - 300
06:34 - 17:48 33°

7 66 - 299
06:32 - 17:50 33°

8 67 - 298
06:30 - 17:52 34°

9 68 - 297
06:27 - 17:54 34°

10 69 - 296
06:25 - 17:55 35°

11 70 - 295
06:23 - 17:57 35°

11

12 71 - 294
06:21 - 17:59 35°

13 72 - 293
06:18 - 18:00 36°

14 73 - 292
06:16 - 18:02 36°

15 74 - 291
06:14 - 18:04 36°

16 75 - 290
06:12 - 18:06 37°

17 76 - 289
06:09 - 18:07 37°

18 77 - 288
06:07 - 18:09 38°

12

19 78 - 287
06:05 - 18:11 38°

20 79 - 286
06:03 - 18:12 38°

21 80 - 285
06:00 - 18:14 39°

22 81 - 284
05:58 - 18:16 39°

23 82 - 283
05:56 - 18:17 40°

24 83 - 282
05:53 - 18:19 40°

25 84 - 281
06:51 - 19:21 40°

13

26 85 - 280
06:49 - 19:23 41°

27 86 - 279
06:47 - 19:24 41°

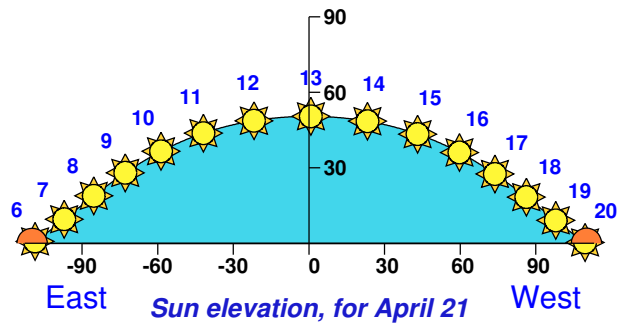
28 87 - 278
06:44 - 19:26 42°

29 88 - 277
06:42 - 19:28 42°

30 89 - 276
06:40 - 19:29 42°

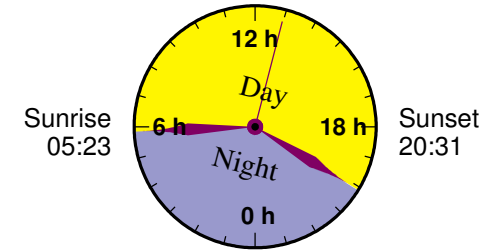
31 90 - 275
06:37 - 19:31 43°

April 2018



Londres

0.17°E, 51.5°N



Duration of the day, for April 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

13

14

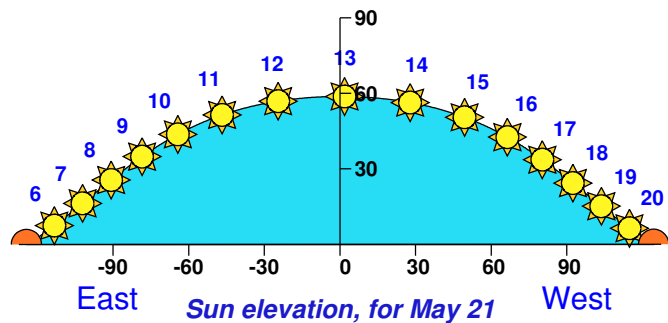
15

16

17

18

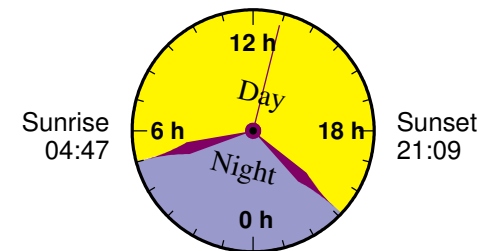
						1 91 - 274 06:35 - 19:33 43°
2 92 - 273 06:33 - 19:34 44° 	3 93 - 272 Polar Night 	4 94 - 271 06:28 - 19:38 44° 	5 95 - 270 06:26 - 19:39 45° 	6 96 - 269 06:24 - 19:41 45° 	7 97 - 268 06:22 - 19:43 45° 	8 98 - 267 06:19 - 19:44 46°
9 99 - 266 06:17 - 19:46 46° 	10 100 - 265 06:15 - 19:48 47° 	11 101 - 264 06:13 - 19:49 47° 	12 102 - 263 06:11 - 19:51 47° 	13 103 - 262 06:08 - 19:53 48° 	14 104 - 261 06:06 - 19:54 48° 	15 105 - 260 06:04 - 19:56 48°
16 106 - 259 06:02 - 19:58 49° 	17 107 - 258 06:00 - 19:59 49° 	18 108 - 257 05:58 - 20:01 49° 	19 109 - 256 05:56 - 20:03 50° 	20 110 - 255 05:54 - 20:04 50° 	21 111 - 254 05:51 - 20:06 50° 	22 112 - 253 05:49 - 20:08 51°
23 113 - 252 05:47 - 20:09 51° 	24 114 - 251 05:45 - 20:11 51° 	25 115 - 250 05:43 - 20:13 52° 	26 116 - 249 05:41 - 20:14 52° 	27 117 - 248 05:39 - 20:16 52° 	28 118 - 247 05:37 - 20:18 53° 	29 119 - 246 05:35 - 20:19 53°
30 120 - 245 05:34 - 20:21 53° 						



May 2018

Londres

0.17°E, 51.5°N



Duration of the day, for May 21

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

18

19

20

21

22

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

1 121 - 244
05:32 - 20:23 54°

2 122 - 243
05:30 - 20:24 54°

3 123 - 242
05:28 - 20:26 54°

4 124 - 241
05:26 - 20:28 55°

5 125 - 240
05:24 - 20:29 55°

6 126 - 239
05:23 - 20:31 55°

7 127 - 238
05:21 - 20:32 55°

8 128 - 237
05:19 - 20:34 56°

9 129 - 236
05:17 - 20:36 56°

10 130 - 235
05:16 - 20:37 56°

11 131 - 234
05:14 - 20:39 56°

12 132 - 233
05:13 - 20:40 57°

13 133 - 232
05:11 - 20:42 57°

14 134 - 231
05:09 - 20:43 57°

15 135 - 230
05:08 - 20:45 57°

16 136 - 229
05:06 - 20:46 58°

17 137 - 228
05:05 - 20:48 58°

18 138 - 227
05:04 - 20:49 58°

19 139 - 226
05:02 - 20:51 58°

20 140 - 225
05:01 - 20:52 59°

21 141 - 224
05:00 - 20:53 59°

22 142 - 223
04:58 - 20:55 59°

23 143 - 222
04:57 - 20:56 59°

24 144 - 221
04:56 - 20:58 59°

25 145 - 220
04:55 - 20:59 59°

26 146 - 219
04:54 - 21:00 60°

27 147 - 218
04:53 - 21:01 60°

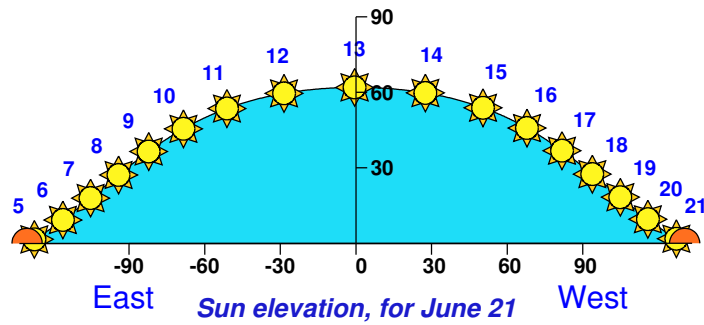
28 148 - 217
04:52 - 21:03 60°

29 149 - 216
04:51 - 21:04 60°

30 150 - 215
04:50 - 21:05 60°

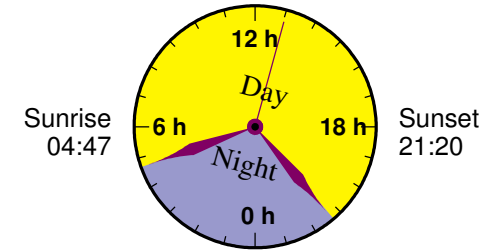
31 151 - 214
04:49 - 21:06 60°

June 2018



Londres

0.17°E, 51.5°N



Duration of the day, for June 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

22

1 152 - 213
04:48 - 21:07 61°

2 153 - 212
04:47 - 21:08 61°

3 154 - 211
04:47 - 21:09 61°

23

4 155 - 210
04:46 - 21:10 61°

5 156 - 209
04:45 - 21:11 61°

6 157 - 208
04:45 - 21:12 61°

7 158 - 207
04:44 - 21:13 61°

8 159 - 206
04:44 - 21:14 61°

9 160 - 205
04:43 - 21:15 61°

10 161 - 204
04:43 - 21:15 62°

24

11 162 - 203
04:43 - 21:16 62°

12 163 - 202
04:42 - 21:17 62°

13 164 - 201
04:42 - 21:17 62°

14 165 - 200
04:42 - 21:18 62°

15 166 - 199
04:42 - 21:18 62°

16 167 - 198
04:42 - 21:19 62°

17 168 - 197
04:42 - 21:19 62°

25

18 169 - 196
04:42 - 21:20 62°

19 170 - 195
04:42 - 21:20 62°

20 171 - 194
04:42 - 21:20 62°

21 172 - 193
04:42 - 21:20 62°

22 173 - 192
04:42 - 21:21 62°

23 174 - 191
04:43 - 21:21 62°

24 175 - 190
04:43 - 21:21 62°

26

25 176 - 189
04:43 - 21:21 62°

26 177 - 188
04:44 - 21:21 62°

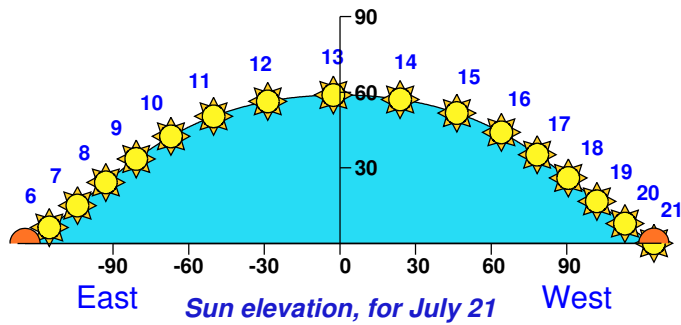
27 178 - 187
04:44 - 21:21 62°

28 179 - 186
04:45 - 21:21 62°

29 180 - 185
04:45 - 21:20 62°

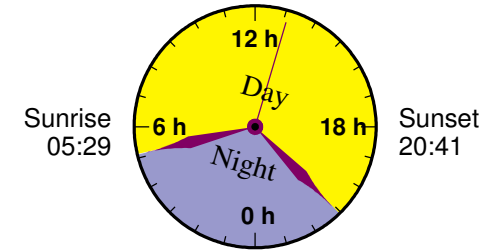
30 181 - 184
04:46 - 21:20 62°

July 2018



Londres

0.17°E, 51.5°N



Duration of the day, for July 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

26

1 182 - 183
04:47 - 21:20 62°

27

2 183 - 182
04:47 - 21:19 62°

3 184 - 181
04:48 - 21:19 61°

4 185 - 180
04:49 - 21:19 61°

5 186 - 179
04:50 - 21:18 61°

6 187 - 178
04:50 - 21:18 61°

7 188 - 177
04:51 - 21:17 61°

8 189 - 176
04:52 - 21:16 61°

28

9 190 - 175
04:53 - 21:16 61°

10 191 - 174
04:54 - 21:15 61°

11 192 - 173
04:55 - 21:14 61°

12 193 - 172
04:56 - 21:13 60°

13 194 - 171
04:57 - 21:12 60°

14 195 - 170
04:59 - 21:11 60°

15 196 - 169
05:00 - 21:10 60°

29

16 197 - 168
05:01 - 21:09 60°

17 198 - 167
05:02 - 21:08 60°

18 199 - 166
05:03 - 21:07 59°

19 200 - 165
05:05 - 21:06 59°

20 201 - 164
05:06 - 21:05 59°

21 202 - 163
05:07 - 21:04 59°

22 203 - 162
05:09 - 21:02 59°

30

23 204 - 161
05:10 - 21:01 59°

24 205 - 160
05:11 - 21:00 58°

25 206 - 159
05:13 - 20:58 58°

26 207 - 158
05:14 - 20:57 58°

27 208 - 157
05:16 - 20:55 58°

28 209 - 156
05:17 - 20:54 57°

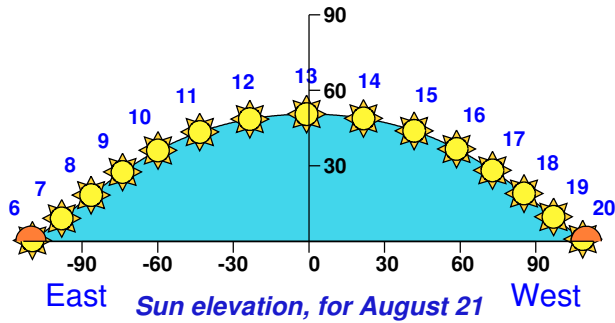
29 210 - 155
05:19 - 20:52 57°

31

30 211 - 154
05:20 - 20:51 57°

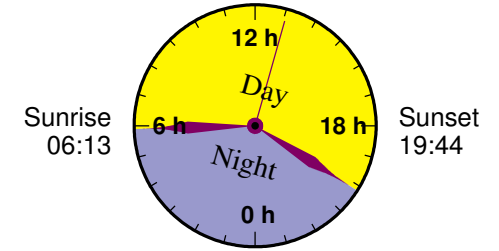
31 212 - 153
05:22 - 20:49 57°

August 2018



Londres

0.17°E, 51.5°N



Duration of the day, for August 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

31

32

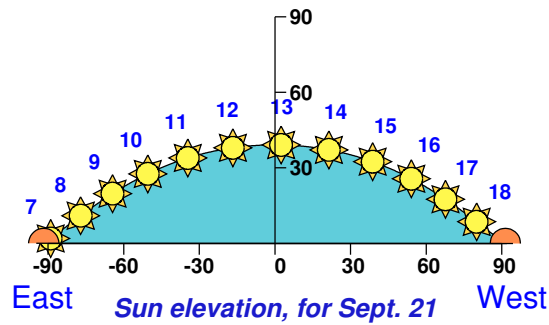
33

34

35

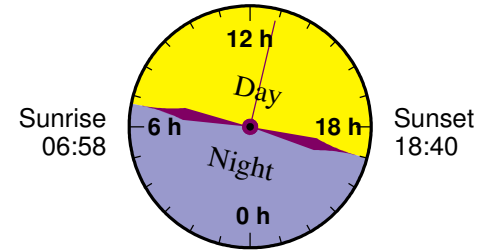
		1 213 - 152 05:23 - 20:48 56° 	2 214 - 151 05:25 - 20:46 56° 	3 215 - 150 05:26 - 20:44 56° 	4 216 - 149 05:28 - 20:43 56° 	5 217 - 148 05:29 - 20:41 55°
6 218 - 147 05:31 - 20:39 55° 	7 219 - 146 05:32 - 20:37 55° 	8 220 - 145 05:34 - 20:35 55° 	9 221 - 144 05:35 - 20:34 54° 	10 222 - 143 05:37 - 20:32 54° 	11 223 - 142 05:38 - 20:30 54° 	12 224 - 141 05:40 - 20:28 53°
13 225 - 140 05:42 - 20:26 53° 	14 226 - 139 05:43 - 20:24 53° 	15 227 - 138 05:45 - 20:22 52° 	16 228 - 137 05:46 - 20:20 52° 	17 229 - 136 05:48 - 20:18 52° 	18 230 - 135 05:50 - 20:16 52° 	19 231 - 134 05:51 - 20:14 51°
20 232 - 133 05:53 - 20:12 51° 	21 233 - 132 05:54 - 20:10 51° 	22 234 - 131 05:56 - 20:08 50° 	23 235 - 130 05:57 - 20:06 50° 	24 236 - 129 05:59 - 20:04 50° 	25 237 - 128 06:01 - 20:01 49° 	26 238 - 127 06:02 - 19:59 49°
27 239 - 126 06:04 - 19:57 48° 	28 240 - 125 06:05 - 19:55 48° 	29 241 - 124 06:07 - 19:53 48° 	30 242 - 123 06:09 - 19:51 47° 	31 243 - 122 06:10 - 19:48 47° 		

September 2018



Londres

0.17°E, 51.5°N



Duration of the day, for September 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

35

36

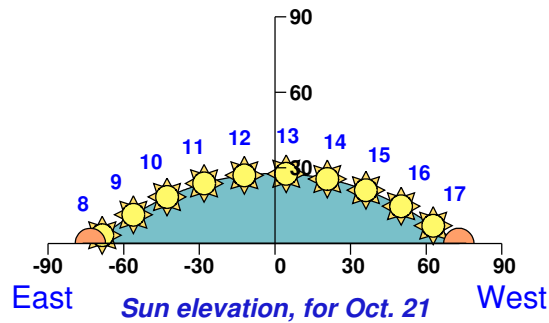
37

38

39

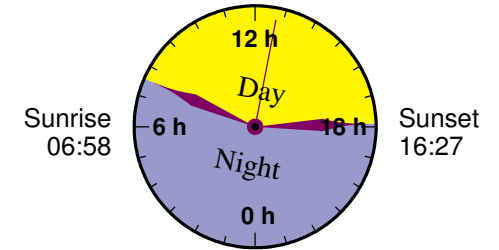
1 244 - 121 06:12 - 19:46 47° 	2 245 - 120 06:13 - 19:44 46°
3 246 - 119 06:15 - 19:42 46° 	4 247 - 118 06:17 - 19:39 46°
5 248 - 117 06:18 - 19:37 45° 	6 249 - 116 06:20 - 19:35 45°
7 250 - 115 06:21 - 19:33 44° 	8 251 - 114 06:23 - 19:30 44°
9 252 - 113 06:25 - 19:28 44° 	
10 253 - 112 06:26 - 19:26 43° 	11 254 - 111 06:28 - 19:23 43°
12 255 - 110 06:29 - 19:21 43° 	13 256 - 109 06:31 - 19:19 42°
14 257 - 108 06:33 - 19:17 42° 	15 258 - 107 06:34 - 19:14 41°
16 259 - 106 06:36 - 19:12 41° 	
17 260 - 105 06:37 - 19:10 41° 	18 261 - 104 06:39 - 19:07 40°
19 262 - 103 06:41 - 19:05 40° 	20 263 - 102 06:42 - 19:03 40°
21 264 - 101 06:44 - 19:00 39° 	22 265 - 100 06:45 - 18:58 39°
23 266 - 99 06:47 - 18:56 38° 	
24 267 - 98 06:49 - 18:54 38° 	25 268 - 97 06:50 - 18:51 38°
26 269 - 96 06:52 - 18:49 37° 	27 270 - 95 06:53 - 18:47 37°
28 271 - 94 06:55 - 18:44 36° 	29 272 - 93 06:57 - 18:42 36°
30 273 - 92 06:58 - 18:40 36° 	

October 2018



Londres

0.17°E, 51.5°N



Duration of the day, for October 21

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

Time change October 28

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

40

1 274 - 91
07:00 - 18:37 35°

2 275 - 90
07:02 - 18:35 35°

3 276 - 89
07:03 - 18:33 34°

4 277 - 88
07:05 - 18:31 34°

5 278 - 87
07:06 - 18:28 34°

6 279 - 86
07:08 - 18:26 33°

7 280 - 85
07:10 - 18:24 33°

41

8 281 - 84
07:11 - 18:22 33°

9 282 - 83
07:13 - 18:20 32°

10 283 - 82
07:15 - 18:17 32°

11 284 - 81
07:16 - 18:15 31°

12 285 - 80
07:18 - 18:13 31°

13 286 - 79
07:20 - 18:11 31°

14 287 - 78
07:22 - 18:09 30°

42

15 288 - 77
07:23 - 18:06 30°

16 289 - 76
07:25 - 18:04 30°

17 290 - 75
07:27 - 18:02 29°

18 291 - 74
07:28 - 18:00 29°

19 292 - 73
07:30 - 17:58 28°

20 293 - 72
07:32 - 17:56 28°

21 294 - 71
07:34 - 17:54 28°

43

22 295 - 70
07:35 - 17:52 27°

23 296 - 69
07:37 - 17:50 27°

24 297 - 68
07:39 - 17:48 27°

25 298 - 67
07:40 - 17:46 26°

26 299 - 66
07:42 - 17:44 26°

27 300 - 65
07:44 - 17:42 26°

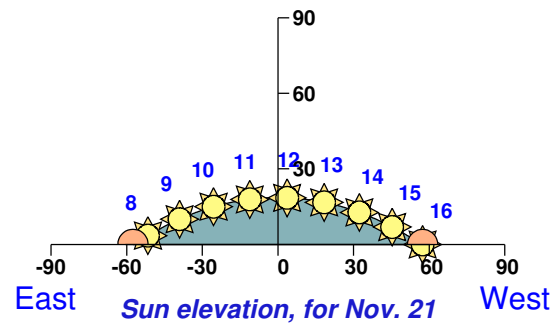
28 301 - 64
06:46 - 16:40 25°

44

29 302 - 63
06:47 - 16:38 25°

30 303 - 62
06:49 - 16:36 25°

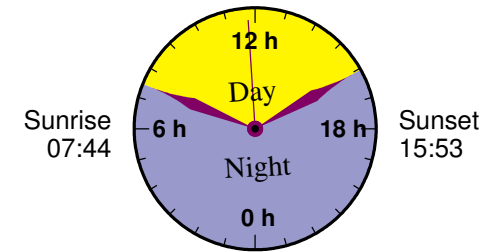
31 304 - 61
06:51 - 16:34 24°



November 2018

Londres

0.17°E, 51.5°N



Duration of the day, for November 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

44

1 305 - 60 06:53 - 16:33 24° 	2 306 - 59 06:55 - 16:31 24° 	3 307 - 58 06:56 - 16:29 23° 	4 308 - 57 06:58 - 16:27 23°
--	--	--	--

45

5 309 - 56 07:00 - 16:26 23° 	6 310 - 55 07:02 - 16:24 22° 	7 311 - 54 07:03 - 16:22 22° 	8 312 - 53 07:05 - 16:21 22° 	9 313 - 52 07:07 - 16:19 22° 	10 314 - 51 07:09 - 16:18 21° 	11 315 - 50 07:10 - 16:16 21°
--	--	--	--	--	---	---

46

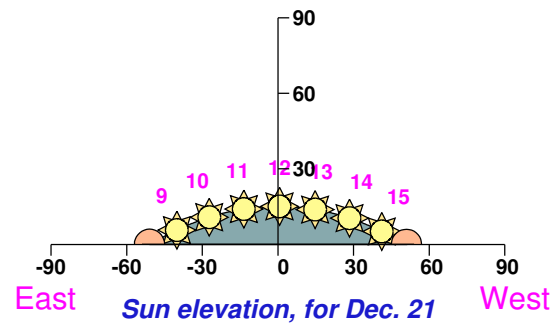
12 316 - 49 07:12 - 16:15 21° 	13 317 - 48 07:14 - 16:13 21° 	14 318 - 47 07:16 - 16:12 20° 	15 319 - 46 07:17 - 16:10 20° 	16 320 - 45 07:19 - 16:09 20° 	17 321 - 44 07:21 - 16:08 20° 	18 322 - 43 07:22 - 16:06 19°
---	---	---	---	---	---	---

47

19 323 - 42 07:24 - 16:05 19° 	20 324 - 41 07:26 - 16:04 19° 	21 325 - 40 07:27 - 16:03 19° 	22 326 - 39 07:29 - 16:02 18° 	23 327 - 38 07:31 - 16:01 18° 	24 328 - 37 07:32 - 16:00 18° 	25 329 - 36 07:34 - 15:59 18°
---	---	---	---	---	---	---

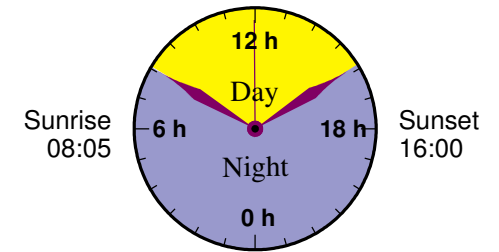
48

26 330 - 35 07:35 - 15:58 18° 	27 331 - 34 07:37 - 15:57 17° 	28 332 - 33 07:38 - 15:56 17° 	29 333 - 32 07:40 - 15:55 17° 	30 334 - 31 07:41 - 15:55 17°
---	---	---	---	---



December 2018

Londres
0.17°E, 51.5°N



Duration of the day, for December 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

48

49

50

51

52

53

1 335 - 30 07:43 - 15:54 17° 	2 336 - 29 07:44 - 15:53 17°
3 337 - 28 07:45 - 15:53 16° 	4 338 - 27 07:47 - 15:52 16°
5 339 - 26 07:48 - 15:52 16° 	6 340 - 25 07:49 - 15:52 16°
7 341 - 24 07:50 - 15:51 16° 	8 342 - 23 07:52 - 15:51 16°
9 343 - 22 07:53 - 15:51 16° 	10 344 - 21 07:54 - 15:51 16°
11 345 - 20 07:55 - 15:50 16° 	12 346 - 19 07:56 - 15:50 15°
13 347 - 18 07:57 - 15:50 15° 	14 348 - 17 07:58 - 15:50 15°
15 349 - 16 07:59 - 15:51 15° 	16 350 - 15 07:59 - 15:51 15°
17 351 - 14 08:00 - 15:51 15° 	18 352 - 13 08:01 - 15:51 15°
19 353 - 12 08:01 - 15:52 15° 	20 354 - 11 08:02 - 15:52 15°
21 355 - 10 08:03 - 15:52 15° 	22 356 - 9 08:03 - 15:53 15°
23 357 - 8 08:04 - 15:53 15° 	24 358 - 7 08:04 - 15:54 15°
25 359 - 6 08:04 - 15:55 15° 	26 360 - 5 08:05 - 15:56 15°
27 361 - 4 08:05 - 15:56 15° 	28 362 - 3 08:05 - 15:57 15°
29 363 - 2 08:05 - 15:58 15° 	30 364 - 1 08:05 - 15:59 15°

31 365 - 0 08:05 - 16:00 15°
