

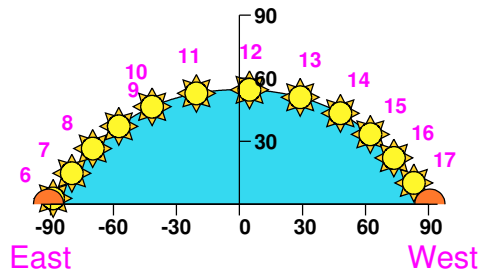
Sun Calendar 2018

Produced by *ScientiDev*
www.scientidev.fr

Tokyo
139.58°E, 35.61°N

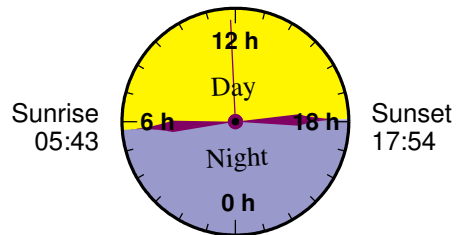


Spring



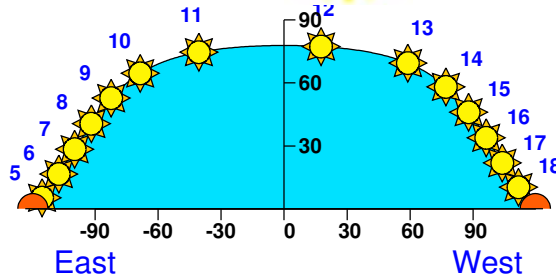
March 21

Day duration 12:11



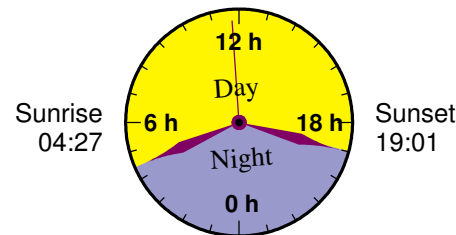
Spring Equinox

Summer



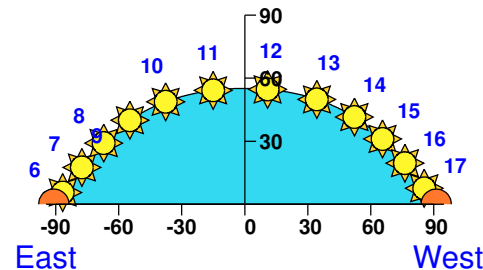
June 21

Day duration 14:34



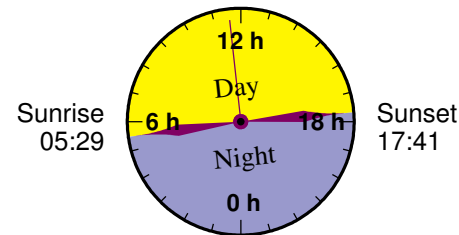
Summer Solstice

Autumn



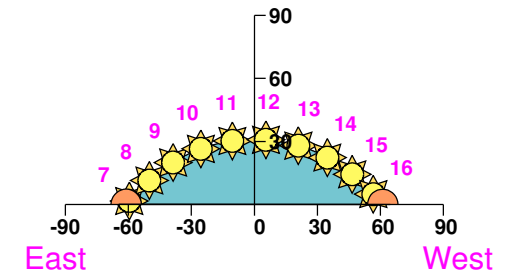
Sept. 21

Day duration 12:12



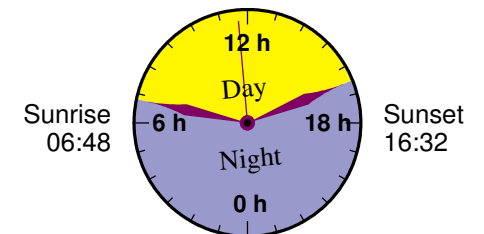
Autumn Equinox

Winter



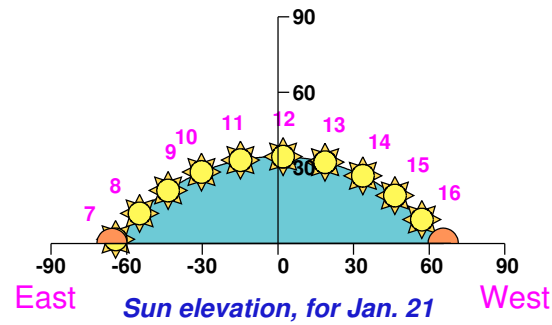
Dec. 21

Day duration 9:44

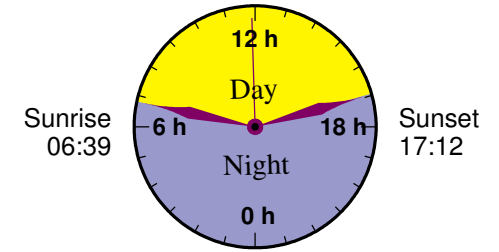


Winter Solstice

January 2018



Tokyo
139.58°E, 35.61°N

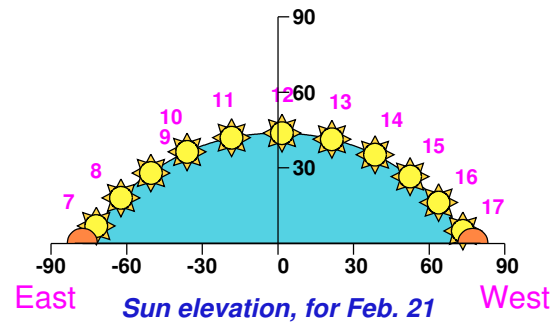


Duration of the day, for January 21

Sunrise and Sunset at Tokyo (TL $\pm$ 1 mn) and sun maximal elevation ($^{\circ}$)

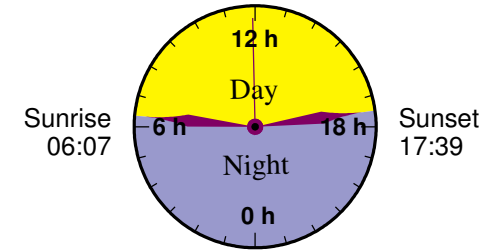
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1	1 1 - 364 06:52 - 16:39 31° 	2 2 - 363 06:52 - 16:40 31° 	3 3 - 362 06:52 - 16:41 32° 	4 4 - 361 06:52 - 16:42 32° 	5 5 - 360 06:52 - 16:42 32° 	6 6 - 359 06:52 - 16:43 32° 	7 7 - 358 06:52 - 16:44 32°
2	8 8 - 357 06:52 - 16:45 32° 	9 9 - 356 06:52 - 16:46 32° 	10 10 - 355 06:52 - 16:47 32° 	11 11 - 354 06:52 - 16:48 33° 	12 12 - 353 06:51 - 16:49 33° 	13 13 - 352 06:51 - 16:50 33° 	14 14 - 351 06:51 - 16:51 33°
3	15 15 - 350 06:51 - 16:52 33° 	16 16 - 349 06:50 - 16:53 33° 	17 17 - 348 06:50 - 16:54 34° 	18 18 - 347 06:50 - 16:55 34° 	19 19 - 346 06:49 - 16:56 34° 	20 20 - 345 06:49 - 16:57 34° 	21 21 - 344 06:48 - 16:58 34°
4	22 22 - 343 06:48 - 16:59 35° 	23 23 - 342 06:47 - 17:00 35° 	24 24 - 341 06:47 - 17:01 35° 	25 25 - 340 06:46 - 17:02 35° 	26 26 - 339 06:46 - 17:03 36° 	27 27 - 338 06:45 - 17:04 36° 	28 28 - 337 06:44 - 17:05 36°
5	29 29 - 336 06:44 - 17:06 36° 	30 30 - 335 06:43 - 17:07 37° 	31 31 - 334 06:42 - 17:08 37° 				

February 2018



Tokyo

139.58°E, 35.61°N



Duration of the day, for February 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

5

1	32 - 333 06:41 - 17:09 37°	2	33 - 332 06:41 - 17:10 38°	3	34 - 331 06:40 - 17:11 38°	4	35 - 330 06:39 - 17:12 38°

6

5 36 - 329 06:38 - 17:13 38° 	6 37 - 328 06:37 - 17:14 39° 	7 38 - 327 06:36 - 17:15 39° 	8 39 - 326 06:35 - 17:16 39° 	9 40 - 325 06:34 - 17:17 40° 	10 41 - 324 06:33 - 17:18 40° 	11 42 - 323 06:32 - 17:19 40°
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7

12	43 - 322 06:31 - 17:20 41°	13	44 - 321 06:30 - 17:21 41°	14	45 - 320 06:29 - 17:22 41°	15	46 - 319 06:28 - 17:23 42°	16	47 - 318 06:27 - 17:24 42°	17	48 - 317 06:26 - 17:25 42°	18	49 - 316 06:25 - 17:26 43°

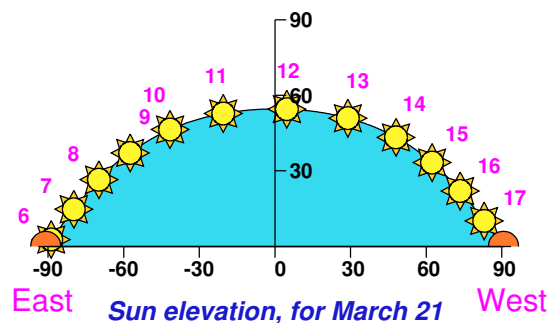
8

19	50 - 315 06:24 - 17:27 43°	20	51 - 314 06:22 - 17:28 43°	21	52 - 313 06:21 - 17:29 44°	22	53 - 312 06:20 - 17:30 44°	23	54 - 311 06:19 - 17:31 45°	24	55 - 310 06:18 - 17:32 45°	25	56 - 309 06:16 - 17:33 45°

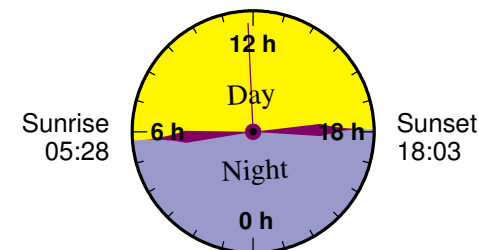
9

26	57 - 308 06:15 - 17:34 46°	27	58 - 307 06:14 - 17:35 46°	28	59 - 306 06:12 - 17:36 46°

March 2018



Tokyo
139.58°E, 35.61°N



Duration of the day, for March 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

9

1 60 - 305 06:11 - 17:37 47° 	2 61 - 304 06:10 - 17:37 47° 	3 62 - 303 06:09 - 17:38 48° 	4 63 - 302 06:07 - 17:39 48°
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10

5 64 - 301 06:06 - 17:40 48° 	6 65 - 300 06:05 - 17:41 49° 	7 66 - 299 06:03 - 17:42 49° 	8 67 - 298 06:02 - 17:43 49° 	9 68 - 297 06:00 - 17:44 50° 	10 69 - 296 05:59 - 17:45 50° 	11 70 - 295 05:58 - 17:45 51°
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11

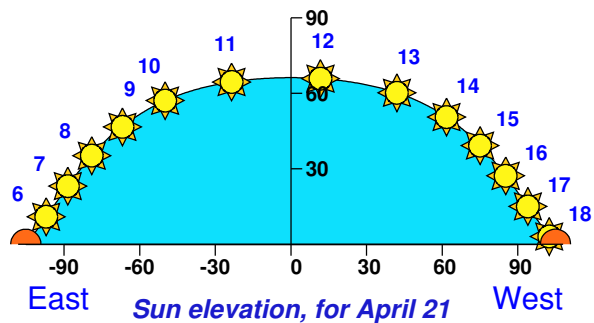
12 71 - 294 05:56 - 17:46 51° 	13 72 - 293 05:55 - 17:47 51° 	14 73 - 292 05:53 - 17:48 52° 	15 74 - 291 05:52 - 17:49 52° 	16 75 - 290 05:51 - 17:50 53° 	17 76 - 289 05:49 - 17:51 53° 	18 77 - 288 05:48 - 17:51 53°
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12

19 78 - 287 05:46 - 17:52 54° 	20 79 - 286 05:45 - 17:53 54° 	21 80 - 285 05:43 - 17:54 55° 	22 81 - 284 05:42 - 17:55 55° 	23 82 - 283 05:41 - 17:56 55° 	24 83 - 282 05:39 - 17:56 56° 	25 84 - 281 05:38 - 17:57 56°
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13

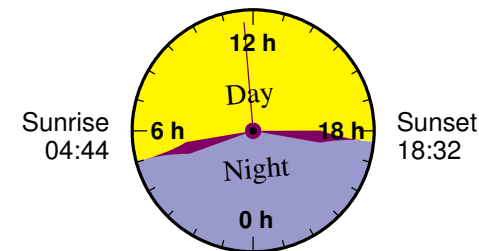
26 85 - 280 05:36 - 17:58 57° 	27 86 - 279 05:35 - 17:59 57° 	28 87 - 278 05:33 - 18:00 57° 	29 88 - 277 05:32 - 18:01 58° 	30 89 - 276 05:31 - 18:01 58° 	31 90 - 275 05:29 - 18:02 58°
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April 2018

Tokyo

139.58°E, 35.61°N



Duration of the day, for April 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

13

14

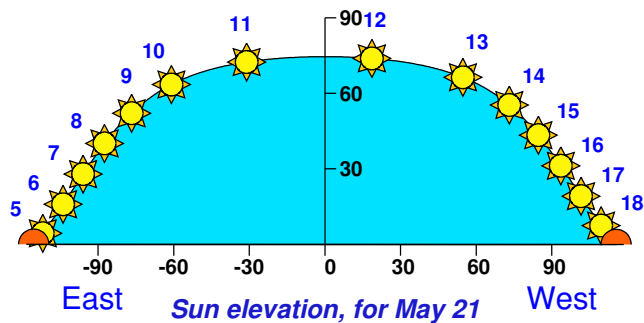
15

16

17

18

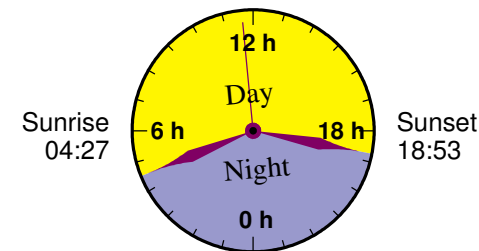
						1 91 - 274 05:28 - 18:03 59°
2 92 - 273 05:26 - 18:04 59° 	3 93 - 272 05:25 - 18:05 60° 	4 94 - 271 05:24 - 18:06 60° 	5 95 - 270 05:22 - 18:06 60° 	6 96 - 269 05:21 - 18:07 61° 	7 97 - 268 05:19 - 18:08 61° 	8 98 - 267 05:18 - 18:09 62°
9 99 - 266 05:17 - 18:10 62° 	10 100 - 265 05:15 - 18:10 62° 	11 101 - 264 05:14 - 18:11 63° 	12 102 - 263 05:13 - 18:12 63° 	13 103 - 262 05:11 - 18:13 63° 	14 104 - 261 05:10 - 18:14 64° 	15 105 - 260 05:09 - 18:15 64°
16 106 - 259 05:07 - 18:15 64° 	17 107 - 258 05:06 - 18:16 65° 	18 108 - 257 05:05 - 18:17 65° 	19 109 - 256 05:04 - 18:18 66° 	20 110 - 255 05:02 - 18:19 66° 	21 111 - 254 05:01 - 18:20 66° 	22 112 - 253 05:00 - 18:20 67°
23 113 - 252 04:59 - 18:21 67° 	24 114 - 251 04:57 - 18:22 67° 	25 115 - 250 04:56 - 18:23 68° 	26 116 - 249 04:55 - 18:24 68° 	27 117 - 248 04:54 - 18:25 68° 	28 118 - 247 04:53 - 18:25 68° 	29 119 - 246 04:52 - 18:26 69°
30 120 - 245 04:51 - 18:27 69° 						



May 2018

Tokyo

139.58°E, 35.61°N



Duration of the day, for May 21

Sunrise and Sunset at Tokyo (TL $\pm$ 1 mn) and sun maximal elevation ($^{\circ}$)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

18

1 121 - 244
04:50 - 18:28 69°

2 122 - 243
04:48 - 18:29 70°

3 123 - 242
04:47 - 18:30 70°

4 124 - 241
04:46 - 18:30 70°

5 125 - 240
04:45 - 18:31 71°

6 126 - 239
04:44 - 18:32 71°

19

7 127 - 238
04:43 - 18:33 71°

8 128 - 237
04:43 - 18:34 71°

9 129 - 236
04:42 - 18:35 72°

10 130 - 235
04:41 - 18:35 72°

11 131 - 234
04:40 - 18:36 72°

12 132 - 233
04:39 - 18:37 72°

13 133 - 232
04:38 - 18:38 73°

20

14 134 - 231
04:37 - 18:39 73°

15 135 - 230
04:37 - 18:39 73°

16 136 - 229
04:36 - 18:40 73°

17 137 - 228
04:35 - 18:41 74°

18 138 - 227
04:34 - 18:42 74°

19 139 - 226
04:34 - 18:43 74°

20 140 - 225
04:33 - 18:43 74°

21

21 141 - 224
04:32 - 18:44 75°

22 142 - 223
04:32 - 18:45 75°

23 143 - 222
04:31 - 18:46 75°

24 144 - 221
04:31 - 18:46 75°

25 145 - 220
04:30 - 18:47 75°

26 146 - 219
04:30 - 18:48 75°

27 147 - 218
04:29 - 18:49 76°

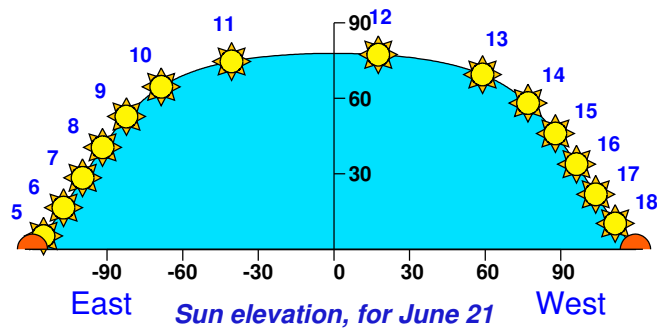
22

28 148 - 217
04:29 - 18:49 76°

29 149 - 216
04:28 - 18:50 76°

30 150 - 215
04:28 - 18:51 76°

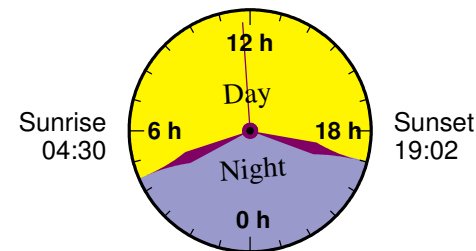
31 151 - 214
04:28 - 18:51 76°



June 2018

Tokyo

139.58°E, 35.61°N



Duration of the day, for June 21

Sunrise and Sunset at Tokyo (TL $\pm$ 1 mn) and sun maximal elevation ($^{\circ}$)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

22

1 152 - 213
04:27 - 18:52 76°

2 153 - 212
04:27 - 18:52 77°

3 154 - 211
04:27 - 18:53 77°

23

4 155 - 210
04:27 - 18:54 77°

5 156 - 209
04:26 - 18:54 77°

6 157 - 208
04:26 - 18:55 77°

7 158 - 207
04:26 - 18:55 77°

8 159 - 206
04:26 - 18:56 77°

9 160 - 205
04:26 - 18:56 77°

10 161 - 204
04:26 - 18:57 77°

24

11 162 - 203
04:26 - 18:57 77°

12 163 - 202
04:26 - 18:58 78°

13 164 - 201
04:26 - 18:58 78°

14 165 - 200
04:26 - 18:59 78°

15 166 - 199
04:26 - 18:59 78°

16 167 - 198
04:26 - 18:59 78°

17 168 - 197
04:26 - 19:00 78°

25

18 169 - 196
04:26 - 19:00 78°

19 170 - 195
04:26 - 19:00 78°

20 171 - 194
04:26 - 19:00 78°

21 172 - 193
04:27 - 19:01 78°

22 173 - 192
04:27 - 19:01 78°

23 174 - 191
04:27 - 19:01 78°

24 175 - 190
04:27 - 19:01 78°

26

25 176 - 189
04:28 - 19:01 78°

26 177 - 188
04:28 - 19:01 78°

27 178 - 187
04:28 - 19:02 78°

28 179 - 186
04:29 - 19:02 78°

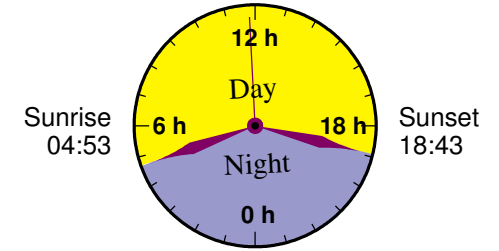
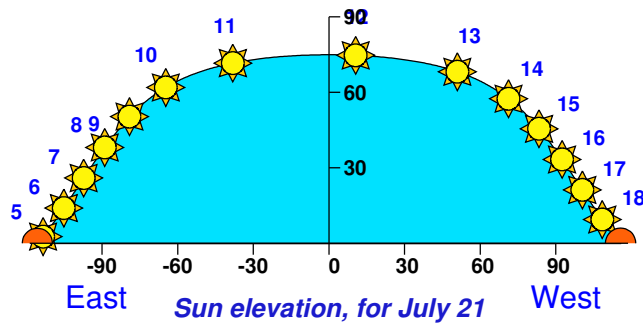
29 180 - 185
04:29 - 19:02 78°

30 181 - 184
04:30 - 19:02 78°

July 2018

Tokyo

139.58°E, 35.61°N



Duration of the day, for July 21

Sunrise and Sunset at Tokyo (TL $\pm$ 1 mn) and sun maximal elevation ($^{\circ}$)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

26

27

28

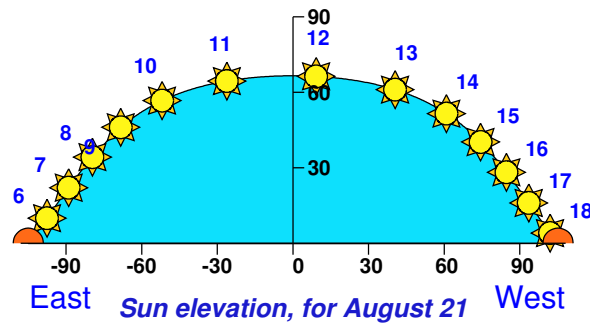
29

30

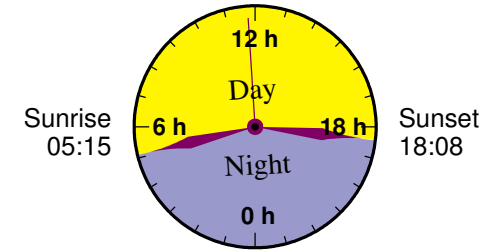
31

						1 182 - 183 04:30 - 19:02 78°
2 183 - 182 04:31 - 19:01 77° 	3 184 - 181 04:31 - 19:01 77° 	4 185 - 180 04:31 - 19:01 77° 	5 186 - 179 04:32 - 19:01 77° 	6 187 - 178 04:33 - 19:01 77° 	7 188 - 177 04:33 - 19:01 77° 	8 189 - 176 04:34 - 19:00 77°
9 190 - 175 04:34 - 19:00 77° 	10 191 - 174 04:35 - 19:00 77° 	11 192 - 173 04:35 - 19:00 77° 	12 193 - 172 04:36 - 18:59 76° 	13 194 - 171 04:37 - 18:59 76° 	14 195 - 170 04:37 - 18:58 76° 	15 196 - 169 04:38 - 18:58 76°
16 197 - 168 04:39 - 18:58 76° 	17 198 - 167 04:39 - 18:57 76° 	18 199 - 166 04:40 - 18:56 75° 	19 200 - 165 04:41 - 18:56 75° 	20 201 - 164 04:41 - 18:55 75° 	21 202 - 163 04:42 - 18:55 75° 	22 203 - 162 04:43 - 18:54 75°
23 204 - 161 04:44 - 18:53 74° 	24 205 - 160 04:44 - 18:53 74° 	25 206 - 159 04:45 - 18:52 74° 	26 207 - 158 04:46 - 18:51 74° 	27 208 - 157 04:47 - 18:51 74° 	28 209 - 156 04:47 - 18:50 73° 	29 210 - 155 04:48 - 18:49 73°
30 211 - 154 04:49 - 18:48 73° 	31 212 - 153 04:50 - 18:47 73° 					

August 2018



Tokyo
139.58°E, 35.61°N



Duration of the day, for August 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

31

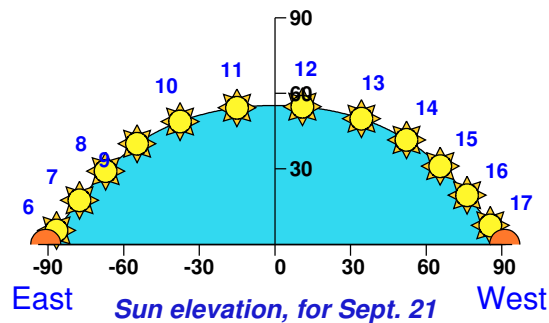
32

33

34

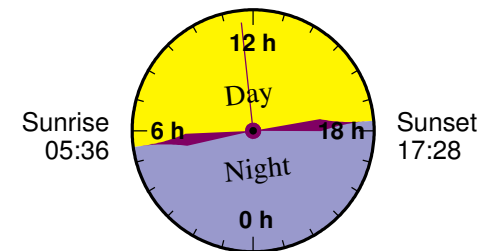
35

		1 213 - 152 04:50 - 18:46 72° 	2 214 - 151 04:51 - 18:45 72° 	3 215 - 150 04:52 - 18:45 72° 	4 216 - 149 04:53 - 18:44 72° 	5 217 - 148 04:53 - 18:43 71°
6 218 - 147 04:54 - 18:42 71° 	7 219 - 146 04:55 - 18:41 71° 	8 220 - 145 04:56 - 18:40 71° 	9 221 - 144 04:57 - 18:39 70° 	10 222 - 143 04:57 - 18:37 70° 	11 223 - 142 04:58 - 18:36 70° 	12 224 - 141 04:59 - 18:35 69°
13 225 - 140 05:00 - 18:34 69° 	14 226 - 139 05:00 - 18:33 69° 	15 227 - 138 05:01 - 18:32 68° 	16 228 - 137 05:02 - 18:31 68° 	17 229 - 136 05:03 - 18:29 68° 	18 230 - 135 05:04 - 18:28 68° 	19 231 - 134 05:04 - 18:27 67°
20 232 - 133 05:05 - 18:26 67° 	21 233 - 132 05:06 - 18:25 67° 	22 234 - 131 05:07 - 18:23 66° 	23 235 - 130 05:07 - 18:22 66° 	24 236 - 129 05:08 - 18:21 66° 	25 237 - 128 05:09 - 18:19 65° 	26 238 - 127 05:10 - 18:18 65°
27 239 - 126 05:10 - 18:17 65° 	28 240 - 125 05:11 - 18:15 64° 	29 241 - 124 05:12 - 18:14 64° 	30 242 - 123 05:13 - 18:13 63° 	31 243 - 122 05:14 - 18:11 63° 		



September 2018

Tokyo
139.58°E, 35.61°N



Duration of the day, for September 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

35

36

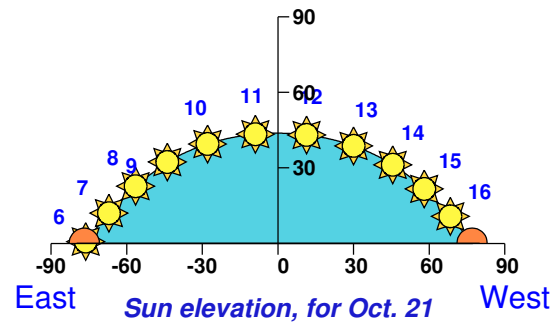
37

38

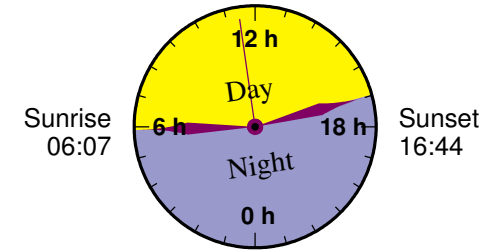
39

1 244 - 121 05:14 - 18:10 63° 	2 245 - 120 05:15 - 18:08 62°
3 246 - 119 05:16 - 18:07 62° 	4 247 - 118 05:17 - 18:06 62°
5 248 - 117 05:17 - 18:04 61° 	6 249 - 116 05:18 - 18:03 61°
7 250 - 115 05:19 - 18:01 61° 	8 251 - 114 05:20 - 18:00 60°
9 252 - 113 05:20 - 17:59 60° 	
10 253 - 112 05:21 - 17:57 59° 	11 254 - 111 05:22 - 17:56 59°
12 255 - 110 05:23 - 17:54 59° 	13 256 - 109 05:23 - 17:53 58°
14 257 - 108 05:24 - 17:51 58° 	15 258 - 107 05:25 - 17:50 57°
16 259 - 106 05:26 - 17:48 57° 	
17 260 - 105 05:26 - 17:47 57° 	18 261 - 104 05:27 - 17:45 56°
19 262 - 103 05:28 - 17:44 56° 	20 263 - 102 05:29 - 17:42 56°
21 264 - 101 05:29 - 17:41 55° 	22 265 - 100 05:30 - 17:40 55°
23 266 - 99 05:31 - 17:38 54° 	
24 267 - 98 05:32 - 17:37 54° 	25 268 - 97 05:32 - 17:35 54°
26 269 - 96 05:33 - 17:34 53° 	27 270 - 95 05:34 - 17:32 53°
28 271 - 94 05:35 - 17:31 52° 	29 272 - 93 05:36 - 17:29 52°
30 273 - 92 05:36 - 17:28 52° 	

October 2018



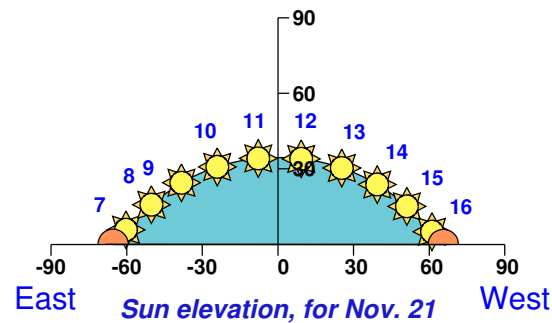
Tokyo
139.58°E, 35.61°N



Duration of the day, for October 21

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

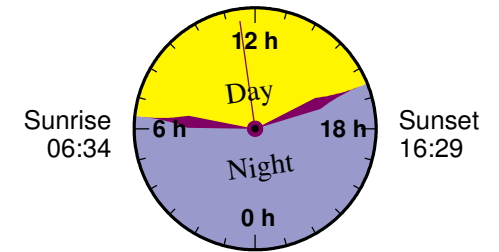
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
40	1 274 - 91 05:37 - 17:26 51° 	2 275 - 90 05:38 - 17:25 51° 	3 276 - 89 05:39 - 17:24 51° 	4 277 - 88 05:39 - 17:22 50° 	5 278 - 87 05:40 - 17:21 50° 	6 279 - 86 05:41 - 17:19 49° 	7 280 - 85 05:42 - 17:18 49°
41	8 281 - 84 05:43 - 17:17 49° 	9 282 - 83 05:44 - 17:15 48° 	10 283 - 82 05:44 - 17:14 48° 	11 284 - 81 05:45 - 17:12 47° 	12 285 - 80 05:46 - 17:11 47° 	13 286 - 79 05:47 - 17:10 47° 	14 287 - 78 05:48 - 17:08 46°
42	15 288 - 77 05:49 - 17:07 46° 	16 289 - 76 05:50 - 17:06 46° 	17 290 - 75 05:50 - 17:05 45° 	18 291 - 74 05:51 - 17:03 45° 	19 292 - 73 05:52 - 17:02 44° 	20 293 - 72 05:53 - 17:01 44° 	21 294 - 71 05:54 - 17:00 44°
43	22 295 - 70 05:55 - 16:58 43° 	23 296 - 69 05:56 - 16:57 43° 	24 297 - 68 05:57 - 16:56 43° 	25 298 - 67 05:58 - 16:55 42° 	26 299 - 66 05:59 - 16:54 42° 	27 300 - 65 05:59 - 16:53 42° 	28 301 - 64 06:00 - 16:51 41°
44	29 302 - 63 06:01 - 16:50 41° 	30 303 - 62 06:02 - 16:49 41° 	31 304 - 61 06:03 - 16:48 40° 				



November 2018

Tokyo

139.58°E, 35.61°N



Duration of the day, for November 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

44

1 305 - 60 06:04 - 16:47 40°	2 306 - 59 06:05 - 16:46 40°	3 307 - 58 06:06 - 16:45 39°	4 308 - 57 06:07 - 16:44 39°

45

5 309 - 56 06:08 - 16:43 39°	6 310 - 55 06:09 - 16:42 38°	7 311 - 54 06:10 - 16:42 38°	8 312 - 53 06:11 - 16:41 38°	9 313 - 52 06:12 - 16:40 38°	10 314 - 51 06:13 - 16:39 37°	11 315 - 50 06:14 - 16:38 37°

46

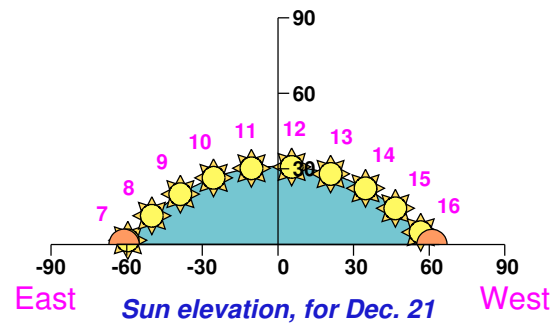
12 316 - 49 06:15 - 16:38 37°	13 317 - 48 06:16 - 16:37 36°	14 318 - 47 06:17 - 16:36 36°	15 319 - 46 06:18 - 16:35 36°	16 320 - 45 06:19 - 16:35 36°	17 321 - 44 06:20 - 16:34 35°	18 322 - 43 06:21 - 16:34 35°

47

19 323 - 42 06:22 - 16:33 35°	20 324 - 41 06:23 - 16:32 35°	21 325 - 40 06:24 - 16:32 35°	22 326 - 39 06:25 - 16:32 34°	23 327 - 38 06:26 - 16:31 34°	24 328 - 37 06:27 - 16:31 34°	25 329 - 36 06:28 - 16:30 34°

48

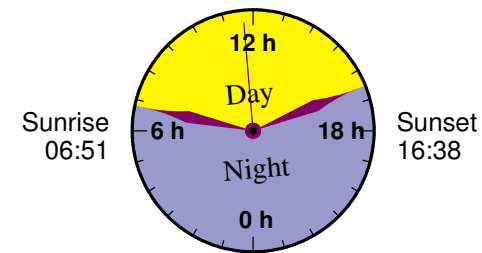
26 330 - 35 06:29 - 16:30 34°	27 331 - 34 06:30 - 16:30 33°	28 332 - 33 06:31 - 16:29 33°	29 333 - 32 06:32 - 16:29 33°	30 334 - 31 06:32 - 16:29 33°



December 2018

Tokyo

139.58°E, 35.61°N



Duration of the day, for December 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

1 335 - 30 06:33 - 16:29 33°	2 336 - 29 06:34 - 16:29 32°
3 337 - 28 06:35 - 16:29 32°	4 338 - 27 06:36 - 16:28 32°
5 339 - 26 06:37 - 16:28 32°	6 340 - 25 06:38 - 16:28 32°
7 341 - 24 06:38 - 16:28 32°	8 342 - 23 06:39 - 16:28 32°
9 343 - 22 06:40 - 16:29 32°	10 344 - 21 06:41 - 16:29 32°
11 345 - 20 06:42 - 16:29 31°	12 346 - 19 06:42 - 16:29 31°
13 347 - 18 06:43 - 16:29 31°	14 348 - 17 06:44 - 16:30 31°
15 349 - 16 06:44 - 16:30 31°	16 350 - 15 06:45 - 16:30 31°
17 351 - 14 06:46 - 16:30 31°	18 352 - 13 06:46 - 16:31 31°
19 353 - 12 06:47 - 16:31 31°	20 354 - 11 06:47 - 16:32 31°
21 355 - 10 06:48 - 16:32 31°	22 356 - 9 06:48 - 16:33 31°
23 357 - 8 06:49 - 16:33 31°	24 358 - 7 06:49 - 16:34 31°
25 359 - 6 06:50 - 16:34 31°	26 360 - 5 06:50 - 16:35 31°
27 361 - 4 06:50 - 16:36 31°	28 362 - 3 06:51 - 16:36 31°
29 363 - 2 06:51 - 16:37 31°	30 364 - 1 06:51 - 16:38 31°

31 365 - 0 06:51 - 16:38 31°
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