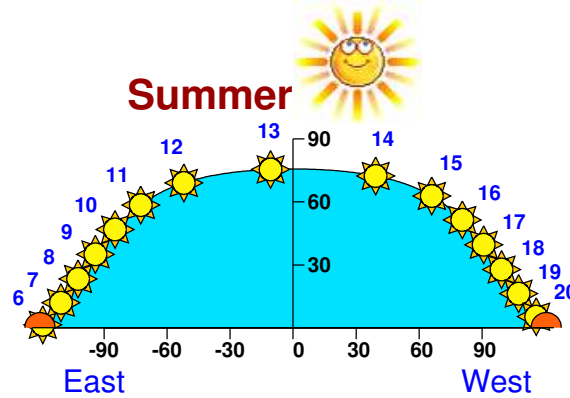


Sun Calendar 2018

Produced by *ScientiDev*
www.scientidev.fr

San Francisco
-122.45°E, 37.75°N

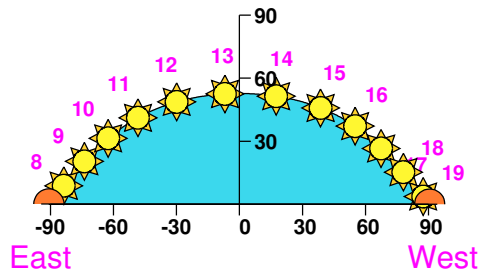
Summer



June 21

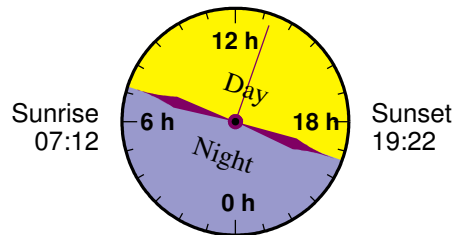


Spring



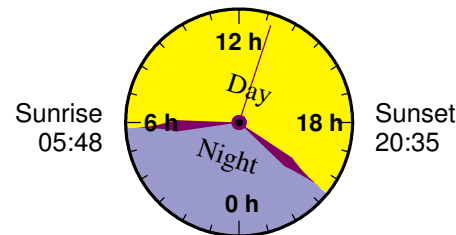
March 21

Day duration 12:10



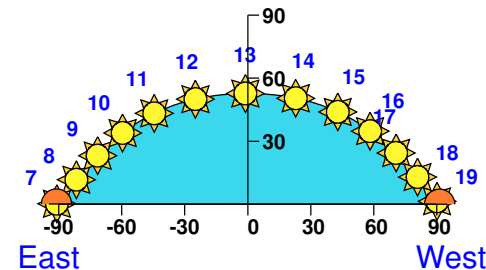
Spring Equinox

Day duration 14:47



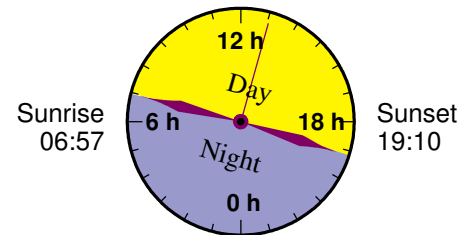
Summer Solstice

Autumn



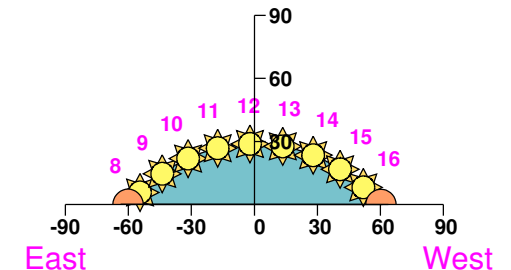
Sept. 21

Day duration 12:13



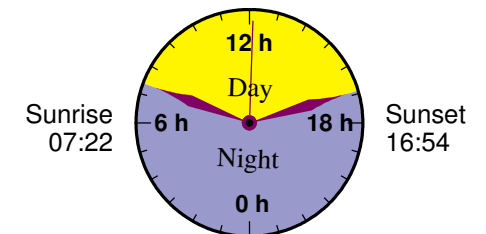
Autumn Equinox

Winter



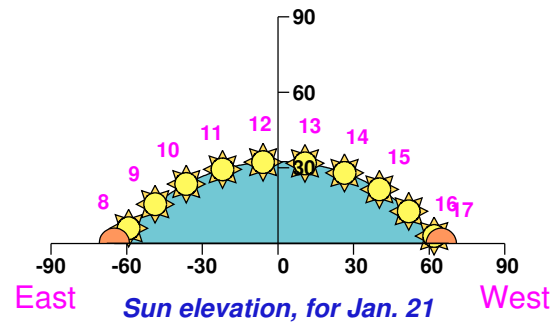
Dec. 21

Day duration 9:32



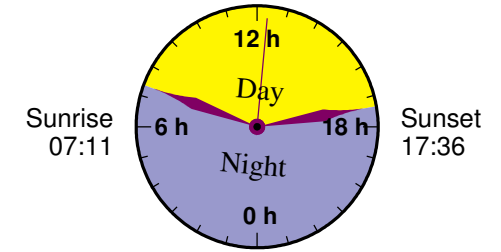
Winter Solstice

January 2018



San Francisco

-122.45°E, 37.75°N

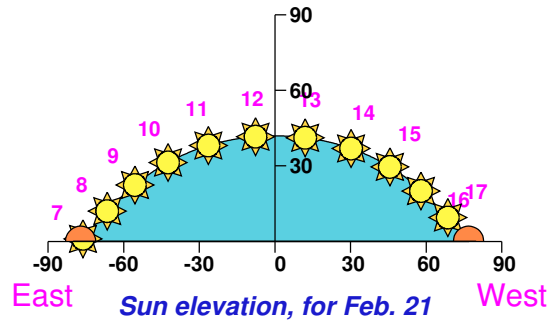


Duration of the day, for January 21

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

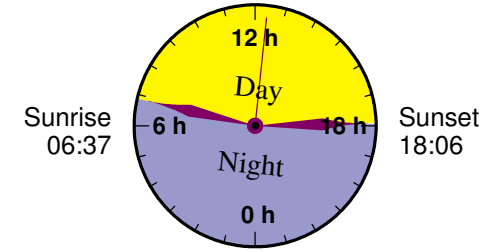
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1	1 - 364 07:25 - 17:01 29°	2 - 363 07:26 - 17:02 29°	3 - 362 07:26 - 17:03 30°	4 - 361 07:26 - 17:04 30°	5 - 360 07:26 - 17:05 30°	6 - 359 07:26 - 17:06 30°	7 - 358 07:26 - 17:06 30°
2	8 - 357 07:26 - 17:07 30°	9 - 356 07:25 - 17:08 30°	10 - 355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

February 2018



San Francisco

-122.45°E, 37.75°N



Duration of the day, for February 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

5

1 32 - 333 07:14 - 17:33 35°	2 33 - 332 07:13 - 17:34 36°	3 34 - 331 07:12 - 17:35 36°	4 35 - 330 07:11 - 17:36 36°

6

5 36 - 329 07:10 - 17:37 37°	6 37 - 328 07:09 - 17:38 37°	7 38 - 327 07:08 - 17:39 37°	8 39 - 326 07:07 - 17:40 37°	9 40 - 325 07:06 - 17:42 38°	10 41 - 324 07:05 - 17:43 38°	11 42 - 323 07:04 - 17:44 38°

7

12 43 - 322 07:03 - 17:45 39°	13 44 - 321 07:02 - 17:46 39°	14 45 - 320 07:01 - 17:47 39°	15 46 - 319 06:59 - 17:48 40°	16 47 - 318 06:58 - 17:49 40°	17 48 - 317 06:57 - 17:50 40°	18 49 - 316 06:56 - 17:51 41°

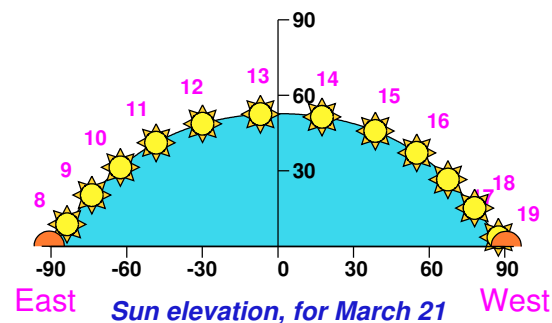
8

19 50 - 315 06:55 - 17:52 41°	20 51 - 314 06:53 - 17:53 42°	21 52 - 313 06:52 - 17:55 42°	22 53 - 312 06:51 - 17:56 42°	23 54 - 311 06:49 - 17:57 43°	24 55 - 310 06:48 - 17:58 43°	25 56 - 309 06:47 - 17:59 43°

9

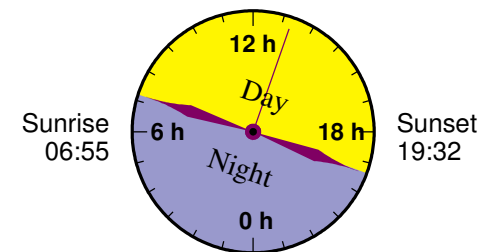
26 57 - 308 06:45 - 18:00 44°	27 58 - 307 06:44 - 18:01 44°	28 59 - 306 06:43 - 18:02 45°

March 2018



San Francisco

-122.45°E, 37.75°N



Duration of the day, for March 21

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

Time change March 11

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

9

1 60 - 305
06:41 - 18:03 45°

2 61 - 304
06:40 - 18:04 45°

3 62 - 303
06:38 - 18:05 46°

4 63 - 302
06:37 - 18:06 46°

10

5 64 - 301
06:36 - 18:07 46°

6 65 - 300
06:34 - 18:08 47°

7 66 - 299
06:33 - 18:09 47°

8 67 - 298
06:31 - 18:10 48°

9 68 - 297
06:30 - 18:11 48°

10 69 - 296
06:28 - 18:12 48°

11 70 - 295
07:27 - 19:13 49°

11

12 71 - 294
07:25 - 19:14 49°

13 72 - 293
07:24 - 19:14 50°

14 73 - 292
07:22 - 19:15 50°

15 74 - 291
07:21 - 19:16 50°

16 75 - 290
07:19 - 19:17 51°

17 76 - 289
07:18 - 19:18 51°

18 77 - 288
07:16 - 19:19 52°

12

19 78 - 287
07:15 - 19:20 52°

20 79 - 286
07:13 - 19:21 52°

21 80 - 285
07:12 - 19:22 53°

22 81 - 284
07:10 - 19:23 53°

23 82 - 283
07:09 - 19:24 54°

24 83 - 282
07:07 - 19:25 54°

25 84 - 281
07:06 - 19:26 54°

13

26 85 - 280
07:04 - 19:27 55°

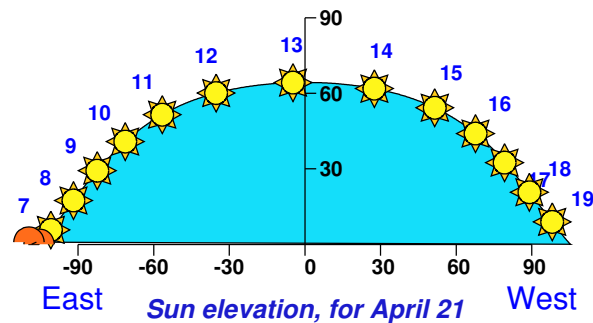
27 86 - 279
07:03 - 19:28 55°

28 87 - 278
07:01 - 19:28 55°

29 88 - 277
07:00 - 19:29 56°

30 89 - 276
06:58 - 19:30 56°

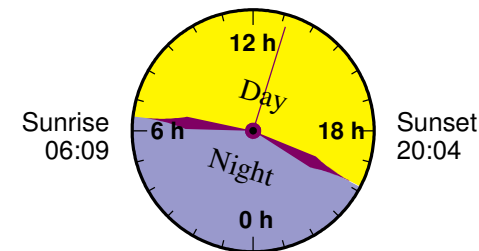
31 90 - 275
06:57 - 19:31 57°



April 2018

San Francisco

-122.45°E, 37.75°N



Duration of the day, for April 21

Sunrise and Sunset at San Francisco (TL ± 1 mn) and sun maximal elevation ($^\circ$)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

13

14

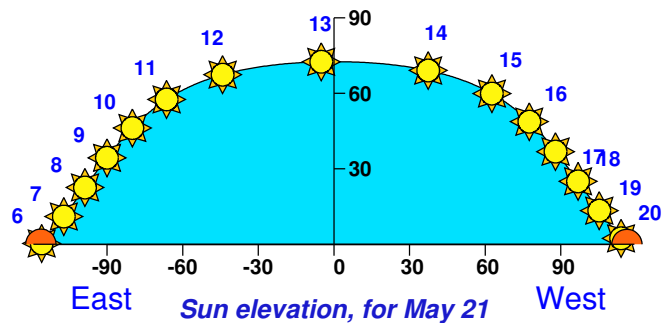
15

16

17

18

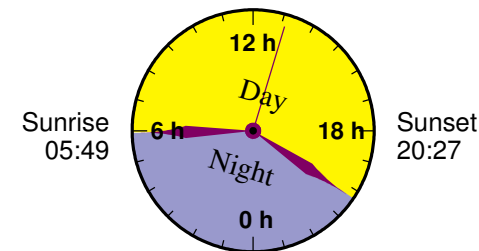
						1 91 - 274 06:55 - 19:32 57°
2 92 - 273 06:54 - 19:33 57° 	3 93 - 272 06:52 - 19:34 58° 	4 94 - 271 06:51 - 19:35 58° 	5 95 - 270 06:49 - 19:36 59° 	6 96 - 269 06:48 - 19:37 59° 	7 97 - 268 06:46 - 19:38 59° 	8 98 - 267 06:45 - 19:38 60°
9 99 - 266 06:43 - 19:39 60° 	10 100 - 265 06:42 - 19:40 60° 	11 101 - 264 06:40 - 19:41 61° 	12 102 - 263 06:39 - 19:42 61° 	13 103 - 262 06:38 - 19:43 62° 	14 104 - 261 06:36 - 19:44 62° 	15 105 - 260 06:35 - 19:45 62°
16 106 - 259 06:33 - 19:46 63° 	17 107 - 258 06:32 - 19:47 63° 	18 108 - 257 06:31 - 19:48 63° 	19 109 - 256 06:29 - 19:49 64° 	20 110 - 255 06:28 - 19:49 64° 	21 111 - 254 06:27 - 19:50 64° 	22 112 - 253 06:25 - 19:51 65°
23 113 - 252 06:24 - 19:52 65° 	24 114 - 251 06:23 - 19:53 65° 	25 115 - 250 06:21 - 19:54 66° 	26 116 - 249 06:20 - 19:55 66° 	27 117 - 248 06:19 - 19:56 66° 	28 118 - 247 06:18 - 19:57 67° 	29 119 - 246 06:16 - 19:58 67°
30 120 - 245 06:15 - 19:59 67° 						



May 2018

San Francisco

-122.45°E, 37.75°N



Duration of the day, for May 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

18

19

20

21

22

1 121 - 244
06:14 - 20:00 68°

2 122 - 243
06:13 - 20:01 68°

3 123 - 242
06:12 - 20:01 68°

4 124 - 241
06:11 - 20:02 68°

5 125 - 240
06:10 - 20:03 69°

6 126 - 239
06:09 - 20:04 69°

7 127 - 238
06:08 - 20:05 69°

8 128 - 237
06:07 - 20:06 69°

9 129 - 236
06:06 - 20:07 70°

10 130 - 235
06:05 - 20:08 70°

11 131 - 234
06:04 - 20:09 70°

12 132 - 233
06:03 - 20:10 71°

13 133 - 232
06:02 - 20:10 71°

14 134 - 231
06:01 - 20:11 71°

15 135 - 230
06:00 - 20:12 71°

16 136 - 229
05:59 - 20:13 71°

17 137 - 228
05:58 - 20:14 72°

18 138 - 227
05:58 - 20:15 72°

19 139 - 226
05:57 - 20:16 72°

20 140 - 225
05:56 - 20:16 72°

21 141 - 224
05:56 - 20:17 73°

22 142 - 223
05:55 - 20:18 73°

23 143 - 222
05:54 - 20:19 73°

24 144 - 221
05:54 - 20:20 73°

25 145 - 220
05:53 - 20:20 73°

26 146 - 219
05:52 - 20:21 73°

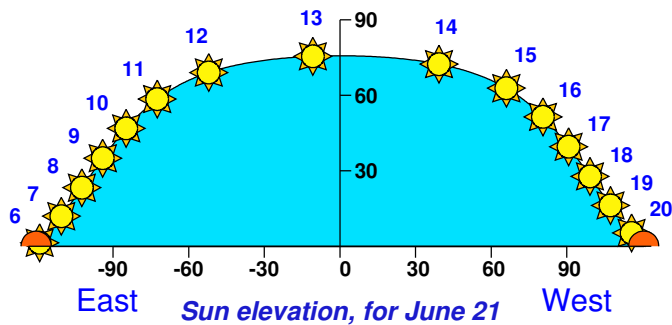
27 147 - 218
05:52 - 20:22 74°

28 148 - 217
05:51 - 20:23 74°

29 149 - 216
05:51 - 20:24 74°

30 150 - 215
05:51 - 20:24 74°

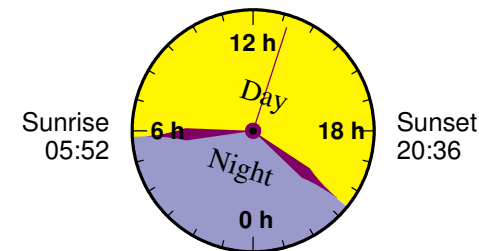
31 151 - 214
05:50 - 20:25 74°



June 2018

San Francisco

-122.45°E, 37.75°N



Duration of the day, for June 21

Sunrise and Sunset at San Francisco (TL ± 1 mn) and sun maximal elevation ($^{\circ}$)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

22

1 152 - 213
05:50 - 20:26 74°

2 153 - 212
05:49 - 20:26 75°

3 154 - 211
05:49 - 20:27 75°

23

4 155 - 210
05:49 - 20:28 75°

5 156 - 209
05:49 - 20:28 75°

6 157 - 208
05:48 - 20:29 75°

7 158 - 207
05:48 - 20:29 75°

8 159 - 206
05:48 - 20:30 75°

9 160 - 205
05:48 - 20:30 75°

10 161 - 204
05:48 - 20:31 75°

24

11 162 - 203
05:48 - 20:31 75°

12 163 - 202
05:48 - 20:32 75°

13 164 - 201
05:48 - 20:32 75°

14 165 - 200
05:48 - 20:33 76°

15 166 - 199
05:48 - 20:33 76°

16 167 - 198
05:48 - 20:34 76°

17 168 - 197
05:48 - 20:34 76°

25

18 169 - 196
05:48 - 20:34 76°

19 170 - 195
05:48 - 20:35 76°

20 171 - 194
05:48 - 20:35 76°

21 172 - 193
05:48 - 20:35 76°

22 173 - 192
05:49 - 20:35 76°

23 174 - 191
05:49 - 20:35 76°

24 175 - 190
05:49 - 20:36 76°

26

25 176 - 189
05:50 - 20:36 76°

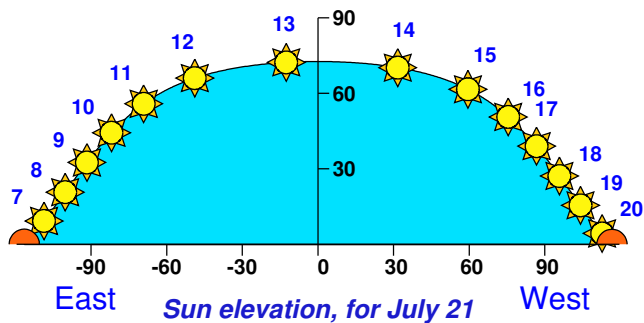
26 177 - 188
05:50 - 20:36 76°

27 178 - 187
05:50 - 20:36 76°

28 179 - 186
05:51 - 20:36 76°

29 180 - 185
05:51 - 20:36 75°

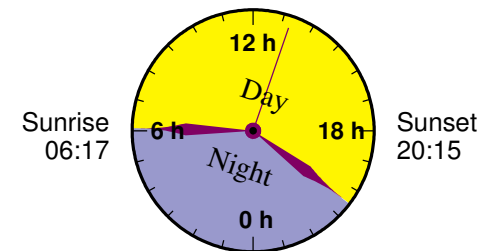
30 181 - 184
05:51 - 20:36 75°



July 2018

San Francisco

-122.45°E, 37.75°N



Duration of the day, for July 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

26

27

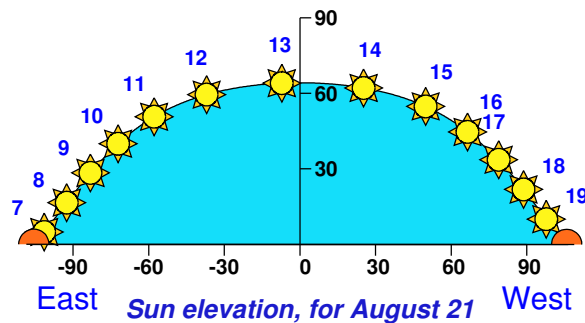
28

29

30

31

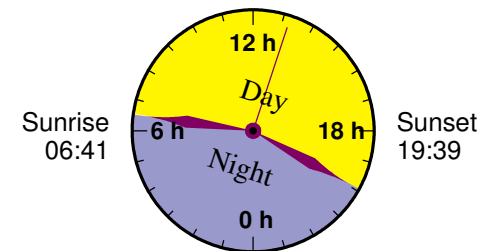
						1 182 - 183 05:52 - 20:36 75°
2 183 - 182 05:52 - 20:36 75° 	3 184 - 181 05:53 - 20:36 75° 	4 185 - 180 05:53 - 20:35 75° 	5 186 - 179 05:54 - 20:35 75° 	6 187 - 178 05:54 - 20:35 75° 	7 188 - 177 05:55 - 20:35 75° 	8 189 - 176 05:56 - 20:35 75°
9 190 - 175 05:56 - 20:34 75° 	10 191 - 174 05:57 - 20:34 74° 	11 192 - 173 05:58 - 20:34 74° 	12 193 - 172 05:58 - 20:33 74° 	13 194 - 171 05:59 - 20:33 74° 	14 195 - 170 06:00 - 20:32 74° 	15 196 - 169 06:00 - 20:32 74°
16 197 - 168 06:01 - 20:31 74° 	17 198 - 167 06:02 - 20:31 73° 	18 199 - 166 06:02 - 20:30 73° 	19 200 - 165 06:03 - 20:30 73° 	20 201 - 164 06:04 - 20:29 73° 	21 202 - 163 06:05 - 20:28 73° 	22 203 - 162 06:05 - 20:28 72°
23 204 - 161 06:06 - 20:27 72° 	24 205 - 160 06:07 - 20:26 72° 	25 206 - 159 06:08 - 20:25 72° 	26 207 - 158 06:09 - 20:25 72° 	27 208 - 157 06:09 - 20:24 71° 	28 209 - 156 06:10 - 20:23 71° 	29 210 - 155 06:11 - 20:22 71°
30 211 - 154 06:12 - 20:21 71° 	31 212 - 153 06:13 - 20:20 70° 					



August 2018

San Francisco

-122.45°E, 37.75°N



Duration of the day, for August 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

31

32

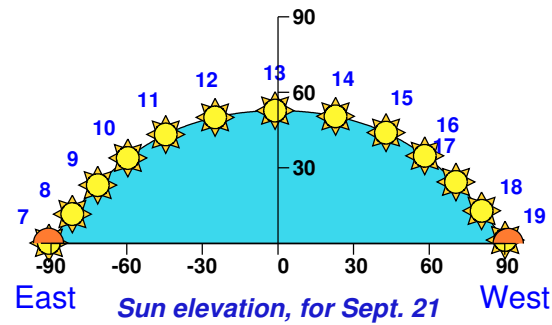
33

34

35

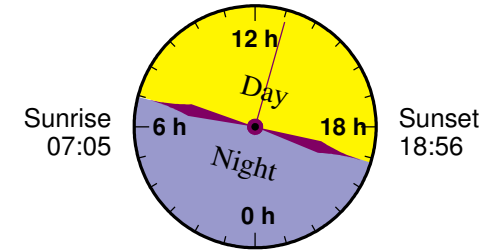
		1 213 - 152 06:14 - 20:19 70° 	2 214 - 151 06:15 - 20:18 70° 	3 215 - 150 06:15 - 20:17 70° 	4 216 - 149 06:16 - 20:16 69° 	5 217 - 148 06:17 - 20:15 69°
	6 218 - 147 06:18 - 20:14 69° 	7 219 - 146 06:19 - 20:13 69° 	8 220 - 145 06:20 - 20:12 68° 	9 221 - 144 06:20 - 20:11 68° 	10 222 - 143 06:21 - 20:10 68° 	11 223 - 142 06:22 - 20:09 67°
	13 225 - 140 06:24 - 20:06 67° 	14 226 - 139 06:25 - 20:05 66° 	15 227 - 138 06:26 - 20:04 66° 	16 228 - 137 06:27 - 20:03 66° 	17 229 - 136 06:27 - 20:01 65° 	18 230 - 135 06:28 - 20:00 65°
	20 232 - 133 06:30 - 19:57 65° 	21 233 - 132 06:31 - 19:56 64° 	22 234 - 131 06:32 - 19:55 64° 	23 235 - 130 06:33 - 19:53 64° 	24 236 - 129 06:33 - 19:52 63° 	25 237 - 128 06:34 - 19:51 63°
	27 239 - 126 06:36 - 19:48 62° 	28 240 - 125 06:37 - 19:46 62° 	29 241 - 124 06:38 - 19:45 61° 	30 242 - 123 06:38 - 19:43 61° 	31 243 - 122 06:39 - 19:42 61° 	

September 2018



San Francisco

-122.45°E, 37.75°N



Duration of the day, for September 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

35

36

37

38

39

1 244 - 121
06:40 - 19:40 60°

2 245 - 120
06:41 - 19:39 60°

3 246 - 119
06:42 - 19:37 60°

4 247 - 118
06:43 - 19:36 59°

5 248 - 117
06:44 - 19:34 59°

6 249 - 116
06:44 - 19:33 58°

7 250 - 115
06:45 - 19:31 58°

8 251 - 114
06:46 - 19:30 58°

9 252 - 113
06:47 - 19:28 57°

10 253 - 112
06:48 - 19:27 57°

11 254 - 111
06:49 - 19:25 57°

12 255 - 110
06:49 - 19:24 56°

13 256 - 109
06:50 - 19:22 56°

14 257 - 108
06:51 - 19:21 55°

15 258 - 107
06:52 - 19:19 55°

16 259 - 106
06:53 - 19:18 55°

17 260 - 105
06:54 - 19:16 54°

18 261 - 104
06:54 - 19:14 54°

19 262 - 103
06:55 - 19:13 54°

20 263 - 102
06:56 - 19:11 53°

21 264 - 101
06:57 - 19:10 53°

22 265 - 100
06:58 - 19:08 52°

23 266 - 99
06:59 - 19:07 52°

24 267 - 98
07:00 - 19:05 52°

25 268 - 97
07:00 - 19:04 51°

26 269 - 96
07:01 - 19:02 51°

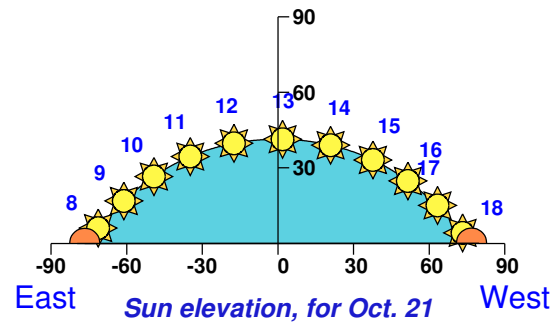
27 270 - 95
07:02 - 19:00 50°

28 271 - 94
07:03 - 18:59 50°

29 272 - 93
07:04 - 18:57 50°

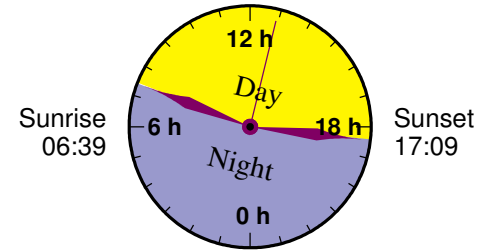
30 273 - 92
07:05 - 18:56 49°

October 2018



San Francisco

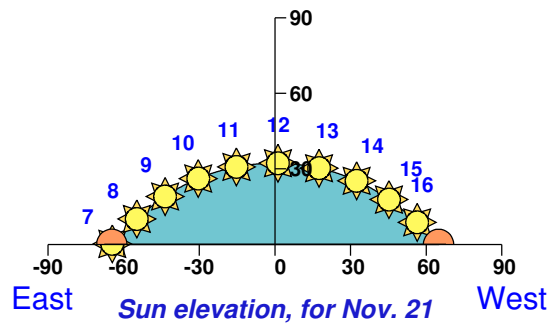
-122.45°E, 37.75°N



Duration of the day, for October 21

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

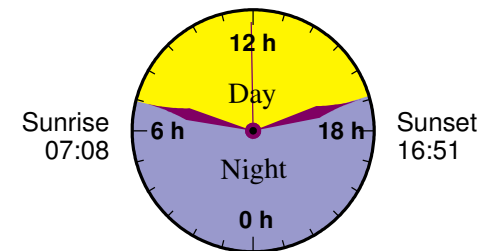
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
40	1 274 - 91 07:06 - 18:54 49° 	2 275 - 90 07:07 - 18:53 48° 	3 276 - 89 07:07 - 18:51 48° 	4 277 - 88 07:08 - 18:50 48° 	5 278 - 87 07:09 - 18:48 47° 	6 279 - 86 07:10 - 18:47 47° 	7 280 - 85 07:11 - 18:45 47°
41	8 281 - 84 07:12 - 18:44 46° 	9 282 - 83 07:13 - 18:42 46° 	10 283 - 82 07:14 - 18:41 45° 	11 284 - 81 07:15 - 18:39 45° 	12 285 - 80 07:16 - 18:38 45° 	13 286 - 79 07:17 - 18:37 44° 	14 287 - 78 07:18 - 18:35 44°
42	15 288 - 77 07:18 - 18:34 44° 	16 289 - 76 07:19 - 18:32 43° 	17 290 - 75 07:20 - 18:31 43° 	18 291 - 74 07:21 - 18:30 42° 	19 292 - 73 07:22 - 18:28 42° 	20 293 - 72 07:23 - 18:27 42° 	21 294 - 71 07:24 - 18:26 41°
43	22 295 - 70 07:25 - 18:24 41° 	23 296 - 69 07:26 - 18:23 41° 	24 297 - 68 07:27 - 18:22 40° 	25 298 - 67 07:28 - 18:20 40° 	26 299 - 66 07:29 - 18:19 40° 	27 300 - 65 07:30 - 18:18 39° 	28 301 - 64 07:31 - 18:17 39°
44	29 302 - 63 07:32 - 18:16 39° 	30 303 - 62 07:33 - 18:15 38° 	31 304 - 61 07:34 - 18:13 38° 				



November 2018

San Francisco

-122.45°E, 37.75°N



Duration of the day, for November 21

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

Time change November 4

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

44

1 305 - 60
07:35 - 18:12 38°

2 306 - 59
07:36 - 18:11 37°

3 307 - 58
07:38 - 18:10 37°

4 308 - 57
06:39 - 17:09 37°

45

5 309 - 56
06:40 - 17:08 36°

6 310 - 55
06:41 - 17:07 36°

7 311 - 54
06:42 - 17:06 36°

8 312 - 53
06:43 - 17:05 36°

9 313 - 52
06:44 - 17:04 35°

10 314 - 51
06:45 - 17:03 35°

11 315 - 50
06:46 - 17:02 35°

46

12 316 - 49
06:47 - 17:02 34°

13 317 - 48
06:48 - 17:01 34°

14 318 - 47
06:49 - 17:00 34°

15 319 - 46
06:50 - 16:59 34°

16 320 - 45
06:51 - 16:59 33°

17 321 - 44
06:52 - 16:58 33°

18 322 - 43
06:53 - 16:57 33°

47

19 323 - 42
06:55 - 16:57 33°

20 324 - 41
06:56 - 16:56 32°

21 325 - 40
06:57 - 16:55 32°

22 326 - 39
06:58 - 16:55 32°

23 327 - 38
06:59 - 16:54 32°

24 328 - 37
07:00 - 16:54 32°

25 329 - 36
07:01 - 16:53 31°

48

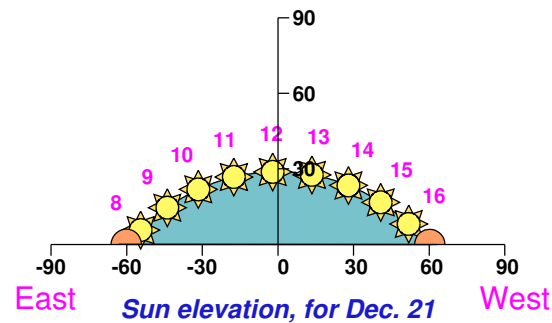
26 330 - 35
07:02 - 16:53 31°

27 331 - 34
07:03 - 16:53 31°

28 332 - 33
07:04 - 16:52 31°

29 333 - 32
07:05 - 16:52 31°

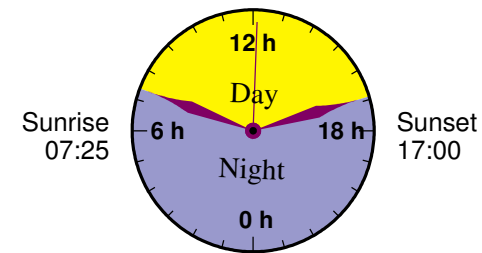
30 334 - 31
07:06 - 16:52 31°



December 2018

San Francisco

-122.45°E, 37.75°N



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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

48

49

50

51

52

53

1 335 - 30 07:07 - 16:52 30° 	2 336 - 29 07:08 - 16:51 30°
3 337 - 28 07:08 - 16:51 30° 	4 338 - 27 07:09 - 16:51 30°
5 339 - 26 07:10 - 16:51 30° 	6 340 - 25 07:11 - 16:51 30°
7 341 - 24 07:12 - 16:51 30° 	8 342 - 23 07:13 - 16:51 30°
9 343 - 22 07:14 - 16:51 29° 	10 344 - 21 07:14 - 16:51 29°
11 345 - 20 07:15 - 16:51 29° 	12 346 - 19 07:16 - 16:51 29°
13 347 - 18 07:17 - 16:51 29° 	14 348 - 17 07:17 - 16:52 29°
15 349 - 16 07:18 - 16:52 29° 	16 350 - 15 07:19 - 16:52 29°
17 351 - 14 07:19 - 16:53 29° 	18 352 - 13 07:20 - 16:53 29°
19 353 - 12 07:21 - 16:53 29° 	20 354 - 11 07:21 - 16:54 29°
21 355 - 10 07:22 - 16:54 29° 	22 356 - 9 07:22 - 16:55 29°
23 357 - 8 07:23 - 16:55 29° 	24 358 - 7 07:23 - 16:56 29°
25 359 - 6 07:23 - 16:56 29° 	26 360 - 5 07:24 - 16:57 29°
27 361 - 4 07:24 - 16:58 29° 	28 362 - 3 07:24 - 16:58 29°
29 363 - 2 07:25 - 16:59 29° 	30 364 - 1 07:25 - 17:00 29°