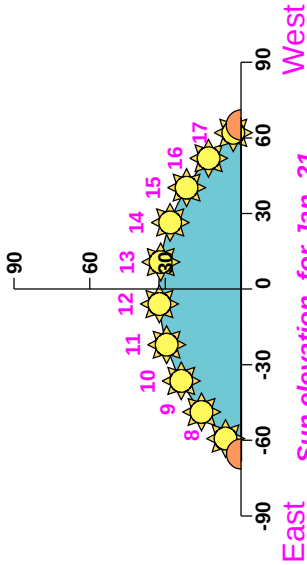
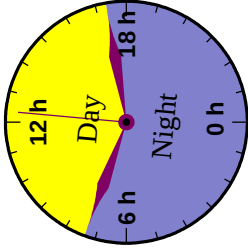


January 2013

San Francisco
-122.45°E, 37.75°N



East Sun elevation, for Jan. 21 West



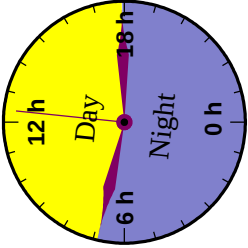
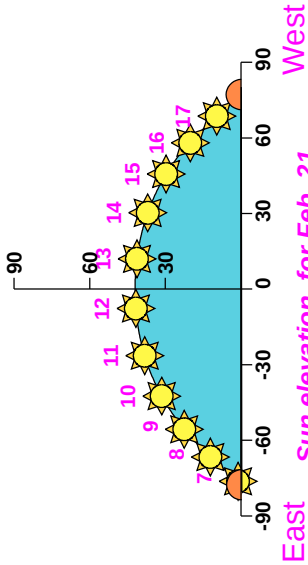
Duration of the day, for January 21

Sunrise and Sunset at San Francisco (TL ± 1 mn) Duration of the day - Variation - Sun maximal elevation (°)

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1	7 - 358 07:26 - 17:07 9:41 +1 m. 30°	1 - 365 07:25 - 17:02 9:36 +1 m. 29°	2 - 363 07:26 - 17:02 9:36 +0 m. 29°	3 - 362 07:26 - 17:03 9:37 +1 m. 30°	4 - 361 07:26 - 17:04 9:38 +1 m. 30°	5 - 360 07:26 - 17:05 9:39 +1 m. 30°	6 - 359 07:26 - 17:06 9:40 +1 m. 30°
2	7 - 358 07:26 - 17:07 9:41 +1 m. 30°	8 - 357 07:26 - 17:08 9:42 +1 m. 30°	9 - 356 07:25 - 17:08 9:43 +1 m. 30°	10 - 355 07:25 - 17:09 9:44 +1 m. 30°	11 - 354 07:25 - 17:10 9:45 +1 m. 31°	12 - 353 07:25 - 17:11 9:46 +1 m. 31°	13 - 352 07:25 - 17:12 9:47 +1 m. 31°
3	14 - 351 07:24 - 17:13 9:49 +2 m. 31°	15 - 350 07:24 - 17:14 9:50 +1 m. 31°	16 - 349 07:24 - 17:15 9:51 +1 m. 31°	17 - 348 07:23 - 17:16 9:53 +2 m. 32°	18 - 347 07:23 - 17:18 9:54 +1 m. 32°	19 - 346 07:22 - 17:19 9:56 +2 m. 32°	20 - 345 07:22 - 17:20 9:57 +1 m. 32°
4	21 - 344 07:21 - 17:21 9:59 +2 m. 33°	22 - 343 07:21 - 17:22 10:01 +2 m. 33°	23 - 342 07:20 - 17:23 10:03 +2 m. 33°	24 - 341 07:20 - 17:24 10:05 +2 m. 33°	25 - 340 07:19 - 17:25 10:06 +1 m. 34°	26 - 339 07:18 - 17:26 10:08 +2 m. 34°	27 - 338 07:18 - 17:27 10:10 +2 m. 34°
5	28 - 337 07:17 - 17:28 10:12 +2 m. 34°	29 - 336 07:16 - 17:30 10:14 +2 m. 35°	30 - 335 07:15 - 17:31 10:16 +2 m. 35°	31 - 334 07:14 - 17:32 10:17 +1 m. 35°			

February 2013

San Francisco
-122.45°E, 37.75°N



Pink Sun elevation, for Feb. 21

Pink Duration of the day, for February 21

Sunrise and Sunset at San Francisco (TL ± 1 mn)

Duration of the day - Variation - Sun maximal elevation (°)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

5

4	35 - 330 07:11 - 17:36	10:25	+1 m.	36°

6

11	42 - 323 07:04 - 17:44	10:40	+2 m.	39°

7

18	49 - 316 06:56 - 17:52	10:56	+2 m.	41°

8

25	56 - 309 06:46 - 17:59	11:13	+3 m.	43°

9

5	36 - 329 07:10 - 17:37	10:28	+3 m.	37°

12	43 - 322 07:03 - 17:45	10:43	+3 m.	39°

19	50 - 315 06:54 - 17:53	10:58	+2 m.	41°

26	57 - 308 06:45 - 18:00	11:15	+2 m.	44°

6	37 - 328 07:09 - 17:39	10:30	+2 m.	37°

13	44 - 321 07:01 - 17:46	10:45	+2 m.	39°

20	51 - 314 06:53 - 17:54	11:01	+3 m.	42°

27	58 - 307 06:44 - 18:01	11:17	+2 m.	44°

7	38 - 327 07:08 - 17:40	10:32	+2 m.	37°

14	45 - 320 07:00 - 17:47	10:47	+2 m.	40°

21	52 - 313 06:52 - 17:55	11:03	+2 m.	42°

28	59 - 306 06:42 - 18:02	11:20	+3 m.	45°

1	32 - 333 07:14 - 17:33	10:19	+2 m.	35°

8	39 - 326 07:07 - 17:41	10:34	+2 m.	38°

15	46 - 319 06:59 - 17:48	10:49	+2 m.	40°

22	53 - 312 06:50 - 17:56	11:05	+2 m.	42°

2	33 - 332 07:13 - 17:34	10:21	+2 m.	36°

9	40 - 325 07:06 - 17:42	10:36	+2 m.	38°

16	47 - 318 06:58 - 17:49	10:52	+3 m.	40°

23	54 - 311 06:49 - 17:57	11:08	+3 m.	43°

3	34 - 331 07:12 - 17:35	10:24	+3 m.	36°

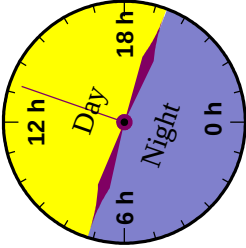
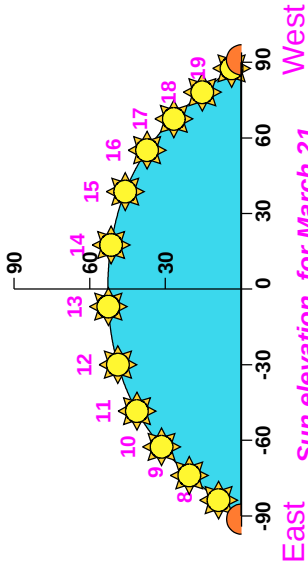
10	41 - 324 07:05 - 17:43	10:38	+2 m.	38°

17	48 - 317 06:57 - 17:51	10:54	+2 m.	41°

24	55 - 310 06:48 - 17:58	11:10	+2 m.	43°

March 2013

San Francisco
-122.45°E, 37.75°N



East Sun elevation, for March 21

West Duration of the day, for March 21

Sunrise and Sunset at San Francisco (TL ± 1 mn)

Time change March 10

Duration of the day - Variation - Sun maximal elevation (°)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

9

10

11

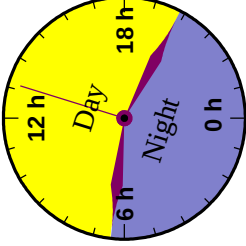
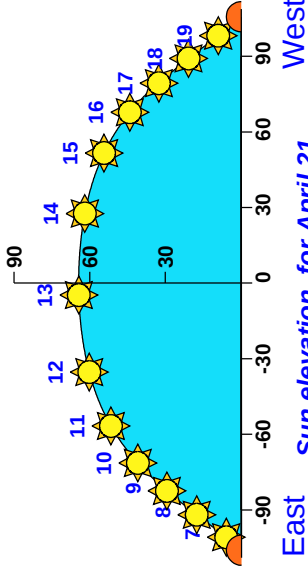
12

13

4 63 - 302 06:37 - 18:06 11:29 +2 m. 46°	5 64 - 301 06:35 - 18:07 11:32 +3 m. 47°	6 65 - 300 06:34 - 18:08 11:34 +2 m. 47°	7 66 - 299 06:32 - 18:09 11:37 +3 m. 47°	8 67 - 298 06:31 - 18:10 11:39 +2 m. 48°	9 68 - 297 06:29 - 18:11 11:42 +3 m. 48°	2 61 - 304 06:40 - 18:04 11:24 +2 m. 45°	3 62 - 303 06:38 - 18:05 11:27 +3 m. 46°
11 70 - 295 07:27 - 19:13 11:46 +2 m. 49°	12 71 - 294 07:25 - 19:14 11:49 +3 m. 49°	13 72 - 293 07:24 - 19:15 11:51 +2 m. 50°	14 73 - 292 07:22 - 19:16 11:54 +3 m. 50°	15 74 - 291 07:21 - 19:17 11:56 +2 m. 50°	16 75 - 290 07:19 - 19:18 11:59 +3 m. 51°	23 82 - 283 07:08 - 19:24 12:16 +3 m. 54°	24 83 - 282 07:07 - 19:25 12:18 +2 m. 54°
18 77 - 288 07:16 - 19:19 12:03 +2 m. 52°	19 78 - 287 07:15 - 19:20 12:06 +3 m. 52°	20 79 - 286 07:13 - 19:21 12:08 +2 m. 52°	21 80 - 285 07:11 - 19:22 12:11 +3 m. 53°	22 81 - 284 07:10 - 19:23 12:13 +2 m. 53°	23 82 - 283 07:08 - 19:24 12:16 +3 m. 54°	30 89 - 276 06:58 - 19:30 12:33 +3 m. 56°	31 90 - 275 06:56 - 19:31 12:35 +2 m. 57°
25 84 - 281 07:05 - 19:26 12:21 +3 m. 54°	26 85 - 280 07:04 - 19:27 12:23 +2 m. 55°	27 86 - 279 07:02 - 19:28 12:25 +2 m. 55°	28 87 - 278 07:01 - 19:29 12:28 +3 m. 56°	29 88 - 277 06:59 - 19:30 12:30 +2 m. 56°	30 89 - 276 06:58 - 19:30 12:33 +3 m. 56°	31 90 - 275 06:56 - 19:31 12:35 +2 m. 57°	

April 2013

San Francisco
-122.45°E, 37.75°N



East Sun elevation, for April 21 West

Duration of the day, for April 21

Sunrise and Sunset at San Francisco (TL ± 1 mn)

Duration of the day - Variation - Sun maximal elevation (°)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

1 91 - 274
06:55 - 19:32
12:38 +3 m. 57°

2 92 - 273
06:53 - 19:33
12:40 +2 m. 57°

3 93 - 272
06:52 - 19:34
12:42 +2 m. 58°

4 94 - 271
06:50 - 19:35
12:45 +3 m. 58°

5 95 - 270
06:49 - 19:36
12:47 +2 m. 59°

6 96 - 269
06:47 - 19:37
12:50 +3 m. 59°

7 97 - 268
06:46 - 19:38
12:52 +2 m. 59°

8 98 - 267
06:44 - 19:39
12:54 +2 m. 60°

9 99 - 266
06:43 - 19:40
12:57 +3 m. 60°

10 100 - 265
06:41 - 19:41
12:59 +2 m. 60°

11 101 - 264
06:40 - 19:41
13:01 +2 m. 61°

12 102 - 263
06:39 - 19:42
13:04 +3 m. 61°

13 103 - 262
06:37 - 19:43
13:06 +2 m. 62°

14 104 - 261
06:36 - 19:44
13:09 +3 m. 62°

15 105 - 260
06:34 - 19:45
13:11 +2 m. 62°

16 106 - 259
06:33 - 19:46
13:13 +2 m. 63°

17 107 - 258
06:32 - 19:47
13:15 +2 m. 63°

18 108 - 257
06:30 - 19:48
13:18 +3 m. 63°

19 109 - 256
06:29 - 19:49
13:20 +2 m. 64°

20 110 - 255
06:28 - 19:50
13:22 +2 m. 64°

21 111 - 254
06:26 - 19:51
13:24 +2 m. 64°

22 112 - 253
06:25 - 19:52
13:27 +3 m. 65°

23 113 - 252
06:24 - 19:52
13:29 +2 m. 65°

24 114 - 251
06:22 - 19:53
13:31 +2 m. 65°

25 115 - 250
06:21 - 19:54
13:33 +2 m. 66°

26 116 - 249
06:20 - 19:55
13:35 +2 m. 66°

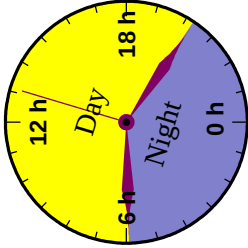
27 117 - 248
06:19 - 19:56
13:38 +3 m. 66°

28 118 - 247
06:17 - 19:57
13:40 +2 m. 67°

29 119 - 246
06:16 - 19:58
13:42 +2 m. 67°

30 120 - 245
06:15 - 19:59
13:44 +2 m. 67°

May 2013



San Francisco
-122.45°E, 37.75°N

East Sun elevation, for May 21

West

Duration of the day, for May 21

Sunrise and Sunset at San Francisco (TL ± 1 mn)

Duration of the day - Variation - Sun maximal elevation (°)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

18

19

20

21

22

6	126 - 239 06:08 - 20:04	13:56 +2 m. 69°
---	----------------------------	-----------------

13	133 - 232 06:02 - 20:11	14:09 +2 m. 71°
----	----------------------------	-----------------

20	140 - 225 05:56 - 20:17	14:21 +2 m. 72°
----	----------------------------	-----------------

27	147 - 218 05:52 - 20:22	14:31 +2 m. 74°
----	----------------------------	-----------------

7	127 - 238 06:07 - 20:05	13:58 +2 m. 69°
---	----------------------------	-----------------

14	134 - 231 06:01 - 20:12	14:11 +2 m. 71°
----	----------------------------	-----------------

21	141 - 224 05:55 - 20:17	14:22 +1 m. 73°
----	----------------------------	-----------------

28	148 - 217 05:51 - 20:23	14:32 +1 m. 74°
----	----------------------------	-----------------

8	128 - 237 06:06 - 20:06	14:00 +2 m. 70°
---	----------------------------	-----------------

15	135 - 230 06:00 - 20:12	14:13 +2 m. 71°
----	----------------------------	-----------------

22	142 - 223 05:55 - 20:18	14:24 +2 m. 73°
----	----------------------------	-----------------

29	149 - 216 05:51 - 20:24	14:33 +1 m. 74°
----	----------------------------	-----------------

9	129 - 236 06:05 - 20:07	14:02 +2 m. 70°
---	----------------------------	-----------------

16	136 - 229 05:59 - 20:13	14:14 +1 m. 72°
----	----------------------------	-----------------

23	143 - 222 05:54 - 20:19	14:25 +1 m. 73°
----	----------------------------	-----------------

30	150 - 215 05:50 - 20:24	14:34 +1 m. 74°
----	----------------------------	-----------------

10	130 - 235 06:04 - 20:08	14:04 +2 m. 70°
----	----------------------------	-----------------

17	137 - 228 05:58 - 20:14	14:16 +2 m. 72°
----	----------------------------	-----------------

24	144 - 221 05:53 - 20:20	14:27 +2 m. 73°
----	----------------------------	-----------------

31	151 - 214 05:50 - 20:25	14:35 +1 m. 74°
----	----------------------------	-----------------

11	131 - 234 06:03 - 20:09	14:06 +2 m. 70°
----	----------------------------	-----------------

18	138 - 227 05:58 - 20:15	14:17 +1 m. 72°
----	----------------------------	-----------------

25	145 - 220 05:53 - 20:21	14:28 +1 m. 73°
----	----------------------------	-----------------

12	132 - 233 06:03 - 20:10	14:07 +1 m. 71°
----	----------------------------	-----------------

19	139 - 226 05:57 - 20:16	14:19 +2 m. 72°
----	----------------------------	-----------------

26	146 - 219 05:52 - 20:21	14:29 +1 m. 74°
----	----------------------------	-----------------

1	121 - 244 06:14 - 20:00	13:46 +2 m. 68°
---	----------------------------	-----------------

2	122 - 243 06:13 - 20:01	13:48 +2 m. 68°
---	----------------------------	-----------------

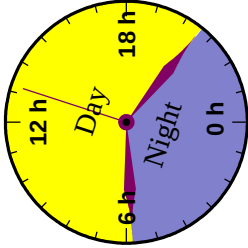
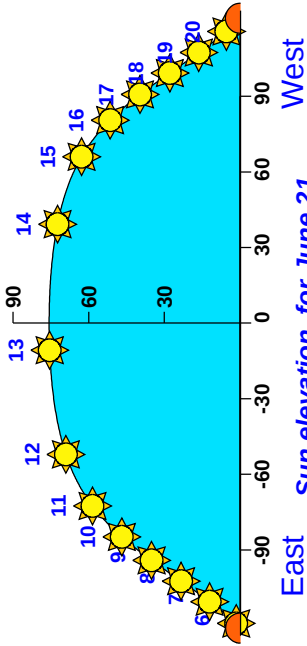
3	123 - 242 06:12 - 20:02	13:50 +2 m. 68°
---	----------------------------	-----------------

4	124 - 241 06:11 - 20:03	13:52 +2 m. 68°
---	----------------------------	-----------------

5	125 - 240 06:09 - 20:03	13:54 +2 m. 69°
---	----------------------------	-----------------

June 2013

San Francisco
-122.45°E, 37.75°N



Duration of the day, for June 21

Duration of the day - Variation - Sun maximal elevation (°)

Sunrise and Sunset at San Francisco (TL ± 1 mn)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

22

23

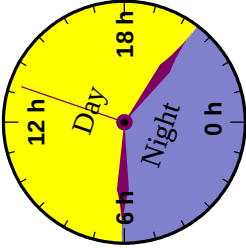
24

25

26

3 154 - 211 05:49 - 20:27 14:38 +1 m. 75°	4 155 - 210 05:49 - 20:28 14:39 +1 m. 75°	5 156 - 209 05:48 - 20:28 14:40 +1 m. 75°	6 157 - 208 05:48 - 20:29 14:41 +1 m. 75°	7 158 - 207 05:48 - 20:29 14:41 +0 m. 75°	1 152 - 213 05:50 - 20:26 14:36 +1 m. 74°	2 153 - 212 05:49 - 20:26 14:37 +1 m. 75°
10 161 - 204 05:48 - 20:31 14:44 +1 m. 75°	11 162 - 203 05:48 - 20:32 14:44 +0 m. 75°	12 163 - 202 05:48 - 20:32 14:45 +1 m. 75°	13 164 - 201 05:48 - 20:32 14:45 +0 m. 76°	14 165 - 200 05:48 - 20:33 14:45 +0 m. 76°	8 159 - 206 05:48 - 20:30 14:42 +1 m. 75°	9 160 - 205 05:48 - 20:31 14:43 +1 m. 75°
17 168 - 197 05:48 - 20:34 14:46 +0 m. 76°	18 169 - 196 05:48 - 20:34 14:46 +0 m. 76°	19 170 - 195 05:48 - 20:35 14:47 +1 m. 76°	20 171 - 194 05:48 - 20:35 14:47 +0 m. 76°	21 172 - 193 05:48 - 20:35 14:47 +0 m. 76°	15 166 - 199 05:48 - 20:33 14:46 +1 m. 76°	16 167 - 198 05:48 - 20:34 14:46 +0 m. 76°
24 175 - 190 05:49 - 20:36 14:46 -1 m. 76°	25 176 - 189 05:50 - 20:36 14:46 +0 m. 76°	26 177 - 188 05:50 - 20:36 14:46 +0 m. 76°	27 178 - 187 05:50 - 20:36 14:46 +0 m. 76°	28 179 - 186 05:51 - 20:36 14:45 -1 m. 75°	22 173 - 192 05:49 - 20:35 14:47 +0 m. 76°	23 174 - 191 05:49 - 20:35 14:47 +0 m. 76°
					29 180 - 185 05:51 - 20:36 14:45 +0 m. 75°	30 181 - 184 05:52 - 20:36 14:44 -1 m. 75°

July 2013



San Francisco
-122.45°E, 37.75°N

East Sun elevation, for July 21

West

Duration of the day, for July 21

Sunrise and Sunset at San Francisco (TL ± 1 mn)

Duration of the day - Variation - Sun maximal elevation (°)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

1	182 - 183 05:52 - 20:36	14:44	+0 m.	75°
27		14:44		75°

8	189 - 176 05:56 - 20:35	14:39	-1 m.	75°
28		14:39		75°

15	196 - 169 06:00 - 20:32	14:31	-2 m.	74°
29		14:31		74°

22	203 - 162 06:06 - 20:28	14:22	-1 m.	72°
30		14:22		72°

29	210 - 155 06:11 - 20:22	14:11	-1 m.	71°
31		14:11		71°

2	183 - 182 05:52 - 20:36	14:43	-1 m.	75°
9		14:43		75°

9	190 - 175 05:56 - 20:34	14:38	-1 m.	75°
16		14:38		75°

16	197 - 168 06:01 - 20:31	14:30	-1 m.	73°
23		14:30		73°

23	204 - 161 06:06 - 20:27	14:20	-2 m.	72°
30		14:20		72°

30	211 - 154 06:12 - 20:21	14:09	-2 m.	71°
31		14:09		71°

3	184 - 181 05:53 - 20:36	14:43	+0 m.	75°
10		14:43		75°

10	191 - 174 05:57 - 20:34	14:37	-1 m.	74°
17		14:37		74°

17	198 - 167 06:02 - 20:31	14:29	-1 m.	73°
24		14:29		73°

24	205 - 160 06:07 - 20:26	14:19	-1 m.	72°
31		14:19		72°

31	212 - 153 06:13 - 20:20	14:07	-2 m.	70°
		14:07		70°

4	185 - 180 05:53 - 20:35	14:42	-1 m.	75°
11		14:42		75°

11	192 - 173 05:58 - 20:34	14:36	-1 m.	74°
18		14:36		74°

18	199 - 166 06:03 - 20:30	14:28	-1 m.	73°
25		14:28		73°

25	206 - 159 06:08 - 20:25	14:17	-2 m.	72°
		14:17		72°

		14:17		72°
		14:17		72°

5	186 - 179 05:54 - 20:35	14:41	-1 m.	75°
12		14:41		75°

12	193 - 172 05:58 - 20:33	14:35	-1 m.	74°
19		14:35		74°

19	200 - 165 06:03 - 20:30	14:26	-2 m.	73°
26		14:26		73°

26	207 - 158 06:09 - 20:24	14:16	-1 m.	72°
		14:16		72°

		14:16		72°
		14:16		72°

6	187 - 178 05:55 - 20:35	14:41	+0 m.	75°
13		14:41		75°

13	194 - 171 05:59 - 20:33	14:34	-1 m.	74°
20		14:34		74°

20	201 - 164 06:04 - 20:29	14:25	-1 m.	73°
27		14:25		73°

27	208 - 157 06:10 - 20:24	14:14	-2 m.	71°
		14:14		71°

		14:14		71°
		14:14		71°

7	188 - 177 05:55 - 20:35	14:40	-1 m.	75°
		14:40		75°

14	195 - 170 06:00 - 20:32	14:33	-1 m.	74°
		14:33		74°

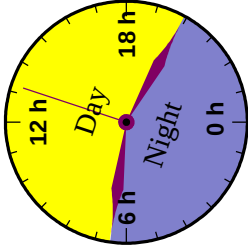
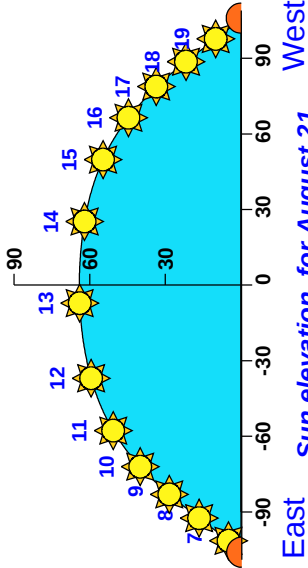
21	202 - 163 06:05 - 20:28	14:23	-2 m.	73°
		14:23		73°

28	209 - 156 06:10 - 20:23	14:12	-2 m.	71°
		14:12		71°

		14:12		71°
		14:12		71°

August 2013

San Francisco
-122.45°E, 37.75°N



East Sun elevation, for August 21 West

Duration of the day, for August 21

Sunrise and Sunset at San Francisco (TL ± 1 mn)

Duration of the day - Variation - Sun maximal elevation (°)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

31

32

33

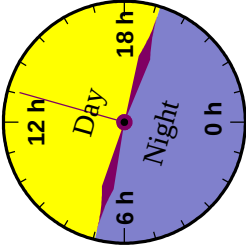
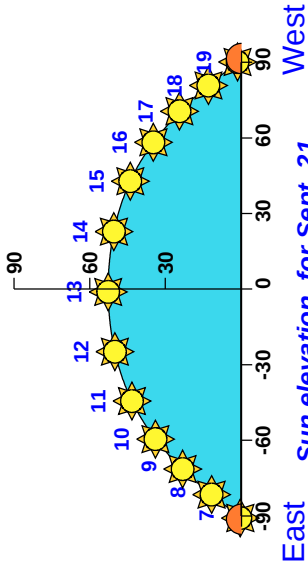
34

35

5	217 - 148 06:17 - 20:15 13:58 -2 m. 69°	6	218 - 147 06:18 - 20:14 13:56 -2 m. 69°	7	219 - 146 06:19 - 20:13 13:54 -2 m. 68°	1	213 - 152 06:14 - 20:19 14:05 -2 m. 70°	2	214 - 151 06:15 - 20:18 14:04 -1 m. 70°	3	215 - 150 06:16 - 20:17 14:02 -2 m. 70°	4	216 - 149 06:16 - 20:16 14:00 -2 m. 69°
12	224 - 141 06:23 - 20:07 13:44 -2 m. 67°	13	225 - 140 06:24 - 20:06 13:42 -2 m. 67°	14	226 - 139 06:25 - 20:05 13:40 -2 m. 66°	8	220 - 145 06:20 - 20:12 13:52 -2 m. 68°	9	221 - 144 06:21 - 20:11 13:50 -2 m. 68°	10	222 - 143 06:22 - 20:10 13:48 -2 m. 68°	11	223 - 142 06:22 - 20:08 13:46 -2 m. 67°
19	231 - 134 06:29 - 19:58 13:29 -2 m. 65°	20	232 - 133 06:30 - 19:57 13:27 -2 m. 64°	21	233 - 132 06:31 - 19:56 13:25 -2 m. 64°	15	227 - 138 06:26 - 20:04 13:38 -2 m. 66°	16	228 - 137 06:27 - 20:02 13:36 -2 m. 66°	17	229 - 136 06:28 - 20:01 13:33 -3 m. 65°	18	230 - 135 06:28 - 20:00 13:31 -2 m. 65°
26	238 - 127 06:35 - 19:49 13:14 -2 m. 62°	27	239 - 126 06:36 - 19:47 13:11 -3 m. 62°	28	240 - 125 06:37 - 19:46 13:09 -2 m. 62°	22	234 - 131 06:32 - 19:54 13:23 -2 m. 64°	23	235 - 130 06:33 - 19:53 13:20 -3 m. 63°	24	236 - 129 06:34 - 19:52 13:18 -2 m. 63°	25	237 - 128 06:34 - 19:50 13:16 -2 m. 63°

September 2013

San Francisco
-122.45°E, 37.75°N



East Sun elevation, for Sept. 21 West

Duration of the day, for September 21

Sunrise and Sunset at San Francisco (TL ± 1 mn)

Duration of the day - Variation - Sun maximal elevation (°)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

35

2	245 - 120 06:41 - 19:39	12:57	-3 m.	60°
9	252 - 113 06:47 - 19:28	12:41	-2 m.	57°
16	259 - 106 06:53 - 19:17	12:24	-3 m.	55°
23	266 - 99 06:59 - 19:06	12:08	-2 m.	52°
30	273 - 92 07:05 - 18:56	11:51	-2 m.	49°

36

3	246 - 119 06:42 - 19:37	12:55	-2 m.	60°
10	253 - 112 06:48 - 19:27	12:39	-2 m.	57°
17	260 - 105 06:54 - 19:16	12:22	-2 m.	54°
24	267 - 98 07:00 - 19:05	12:05	-3 m.	51°

37

4	247 - 118 06:43 - 19:36	12:53	-2 m.	59°
11	254 - 111 06:49 - 19:25	12:36	-3 m.	57°
18	261 - 104 06:55 - 19:14	12:20	-2 m.	54°
25	268 - 97 07:01 - 19:03	12:03	-2 m.	51°

38

5	248 - 117 06:44 - 19:34	12:50	-3 m.	59°
12	255 - 110 06:50 - 19:23	12:34	-2 m.	56°
19	262 - 103 06:55 - 19:13	12:17	-3 m.	53°
26	269 - 96 07:01 - 19:02	12:00	-3 m.	51°

39

6	249 - 116 06:45 - 19:33	12:48	-2 m.	58°
13	256 - 109 06:50 - 19:22	12:32	-2 m.	56°
20	263 - 102 06:56 - 19:11	12:15	-2 m.	53°
27	270 - 95 07:02 - 19:00	11:58	-2 m.	50°

7	250 - 115 06:45 - 19:31	12:46	-2 m.	58°
14	257 - 108 06:51 - 19:20	12:29	-3 m.	55°
21	264 - 101 06:57 - 19:09	12:12	-3 m.	53°
28	271 - 94 07:03 - 18:59	11:55	-3 m.	50°

8	251 - 114 06:46 - 19:30	12:43	-3 m.	58°
15	258 - 107 06:52 - 19:19	12:27	-2 m.	55°
22	265 - 100 06:58 - 19:08	12:10	-2 m.	52°
29	272 - 93 07:04 - 18:57	11:53	-2 m.	50°

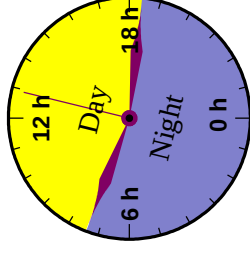
1	244 - 121 06:40 - 19:40	13:00	-2 m.	60°
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31	279 - 86 07:07 - 18:45	11:36	-2 m.	47°
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East West

90° 60° 30° 0° 30° 60° 90°

8 9 10 11 12 13 14 15 16 17 18



San Francisco
-122.45°E, 37.75°N

East
Sun elevation. for Oct. 21
West

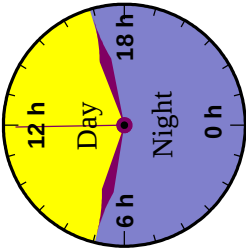
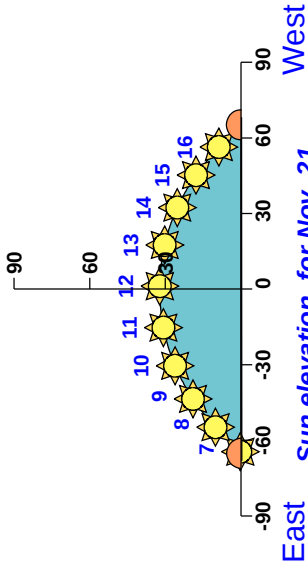
Duration of the day, for October 21

Duration of the day - Variation - Sun maximal elevation (°)

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday	
40	7 280 - 85 07:11 - 18:45 11:34 - 2 m. 46°	1 274 - 91 07:06 - 18:54 11:48 - 3 m. 49°	2 275 - 90 07:07 - 18:52 11:46 - 2 m. 48°	3 276 - 89 07:08 - 18:51 11:43 - 3 m. 48°	4 277 - 88 07:09 - 18:49 11:41 - 2 m. 48°	5 278 - 87 07:09 - 18:48 11:39 - 2 m. 47°	6 279 - 86 07:10 - 18:46 11:36 - 3 m. 47°	
	41	8 281 - 84 07:12 - 18:44 11:32 - 2 m. 46°	9 282 - 83 07:13 - 18:42 11:29 - 3 m. 46°	10 283 - 82 07:14 - 18:41 11:27 - 2 m. 45°	11 284 - 81 07:15 - 18:39 11:24 - 3 m. 45°	12 285 - 80 07:16 - 18:38 11:22 - 2 m. 45°	13 286 - 79 07:17 - 18:36 11:20 - 2 m. 44°	14 287 - 78 07:18 - 18:35 11:17 - 3 m. 44°
		42	15 288 - 77 07:19 - 18:33 11:15 - 2 m. 43°	16 289 - 76 07:20 - 18:32 11:13 - 2 m. 43°	17 290 - 75 07:21 - 18:31 11:10 - 3 m. 43°	18 291 - 74 07:22 - 18:29 11:08 - 2 m. 42°	19 292 - 73 07:23 - 18:28 11:05 - 3 m. 42°	20 293 - 72 07:23 - 18:27 11:03 - 2 m. 42°
43			22 295 - 70 07:25 - 18:24 10:59 - 2 m. 41°	23 296 - 69 07:26 - 18:23 10:56 - 3 m. 41°	24 297 - 68 07:27 - 18:21 10:54 - 2 m. 40°	25 298 - 67 07:28 - 18:20 10:52 - 2 m. 40°	26 299 - 66 07:29 - 18:19 10:50 - 2 m. 40°	27 300 - 65 07:31 - 18:18 10:47 - 3 m. 39°
	44		29 302 - 63 07:33 - 18:15 10:43 - 2 m. 39°	30 303 - 62 07:34 - 18:14 10:41 - 2 m. 38°	31 304 - 61 07:35 - 18:13 10:39 - 2 m. 38°			

November 2013

San Francisco
-122.45°E, 37.75°N



Sunrise and Sunset at San Francisco (TL ± 1 mn)

Duration of the day, for November 21

Time change November 3

Duration of the day - Variation - Sun maximal elevation (°)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

44

45

46

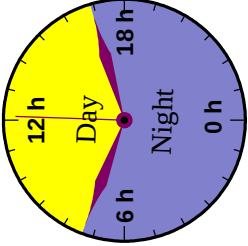
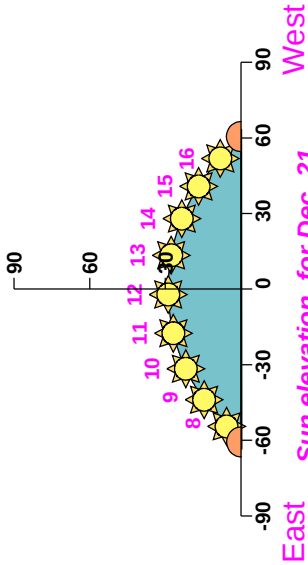
47

48

4	308 - 57 06:39 - 17:09 10:30 -2 m. 37°	5	309 - 56 06:40 - 17:08 10:28 -2 m. 36°	6	310 - 55 06:41 - 17:07 10:26 -2 m. 36°	7	311 - 54 06:42 - 17:06 10:24 -2 m. 36°	8	312 - 53 06:43 - 17:05 10:22 -2 m. 35°	9	313 - 52 06:44 - 17:04 10:20 -2 m. 35°	10	314 - 51 06:45 - 17:03 10:18 -2 m. 35°
11	315 - 50 06:46 - 17:02 10:16 -2 m. 35°	12	316 - 49 06:47 - 17:01 10:14 -2 m. 34°	13	317 - 48 06:48 - 17:01 10:12 -2 m. 34°	14	318 - 47 06:49 - 17:00 10:11 -1 m. 34°	15	319 - 46 06:51 - 16:59 10:09 -2 m. 34°	16	320 - 45 06:52 - 16:58 10:07 -2 m. 33°	17	321 - 44 06:53 - 16:58 10:05 -2 m. 33°
18	322 - 43 06:54 - 16:57 10:03 -2 m. 33°	19	323 - 42 06:55 - 16:56 10:02 -1 m. 33°	20	324 - 41 06:56 - 16:56 10:00 -2 m. 32°	21	325 - 40 06:57 - 16:55 9:58 -2 m. 32°	22	326 - 39 06:58 - 16:55 9:56 -2 m. 32°	23	327 - 38 06:59 - 16:54 9:55 -1 m. 32°	24	328 - 37 07:00 - 16:54 9:53 -2 m. 32°
25	329 - 36 07:01 - 16:53 9:52 -1 m. 31°	26	330 - 35 07:02 - 16:53 9:51 -1 m. 31°	27	331 - 34 07:03 - 16:53 9:49 -2 m. 31°	28	332 - 33 07:04 - 16:52 9:48 -1 m. 31°	29	333 - 32 07:05 - 16:52 9:47 -1 m. 31°	30	334 - 31 07:06 - 16:52 9:45 -2 m. 31°		

December 2013

San Francisco
-122.45°E, 37.75°N



Sunrise and Sunset at San Francisco (TL ± 1 mn)

Duration of the day - Variation - Sun maximal elevation (°)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

48

49

50

51

52

53

2 336 - 29 07:08 - 16:51 9:43 -1 m. 30°	3 337 - 28 07:09 - 16:51 9:42 -1 m. 30°	4 338 - 27 07:10 - 16:51 9:41 -1 m. 30°	5 339 - 26 07:10 - 16:51 9:40 -1 m. 30°	6 340 - 25 07:11 - 16:51 9:39 -1 m. 30°	7 341 - 24 07:12 - 16:51 9:38 -1 m. 30°	8 342 - 23 07:13 - 16:51 9:37 -1 m. 29°	1 335 - 30 07:07 - 16:52 9:44 -1 m. 30°
9 343 - 22 07:14 - 16:51 9:37 +0 m. 29°	10 344 - 21 07:15 - 16:51 9:36 -1 m. 29°	11 345 - 20 07:15 - 16:51 9:35 -1 m. 29°	12 346 - 19 07:16 - 16:51 9:35 +0 m. 29°	13 347 - 18 07:17 - 16:52 9:34 -1 m. 29°	14 348 - 17 07:18 - 16:52 9:34 +0 m. 29°	15 349 - 16 07:18 - 16:52 9:33 -1 m. 29°	
16 350 - 15 07:19 - 16:52 9:33 +0 m. 29°	17 351 - 14 07:20 - 16:53 9:33 +0 m. 29°	18 352 - 13 07:20 - 16:53 9:32 -1 m. 29°	19 353 - 12 07:21 - 16:53 9:32 +0 m. 29°	20 354 - 11 07:21 - 16:54 9:32 +0 m. 29°	21 355 - 10 07:22 - 16:54 9:32 +0 m. 29°	22 356 - 9 07:22 - 16:55 9:32 +0 m. 29°	
23 357 - 8 07:23 - 16:55 9:32 +0 m. 29°	24 358 - 7 07:23 - 16:56 9:32 +0 m. 29°	25 359 - 6 07:24 - 16:56 9:32 +0 m. 29°	26 360 - 5 07:24 - 16:57 9:33 +1 m. 29°	27 361 - 4 07:24 - 16:58 9:33 +0 m. 29°	28 362 - 3 07:25 - 16:58 9:33 +0 m. 29°	29 363 - 2 07:25 - 16:59 9:34 +1 m. 29°	
30 364 - 1 07:25 - 17:00 9:34 +0 m. 29°	31 365 - 0 07:25 - 17:01 9:35 +1 m. 29°						