

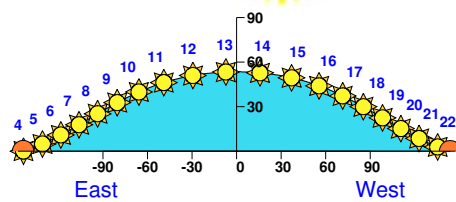
Sun Calendar 2018

Produced by *ScientiDev*
www.scientidev.fr

Oslo

10.75°E, 59.916°N

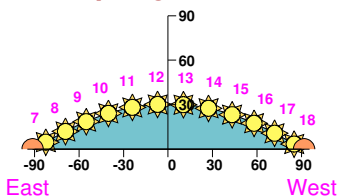
Summer



June 21

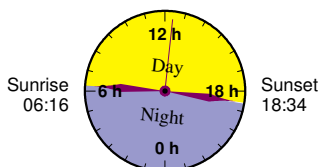


Spring



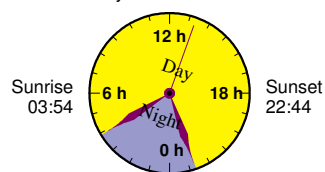
March 21

Day duration 12:18



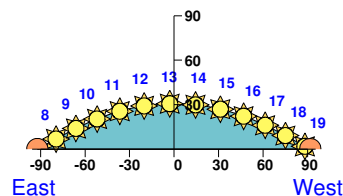
Spring Equinox

Day duration 18:50



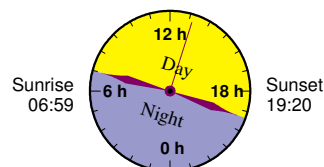
Summer Solstice

Autumn



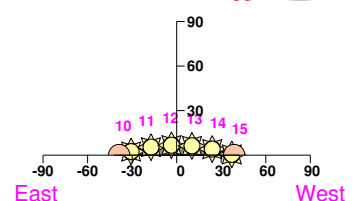
Sept. 21

Day duration 12:22



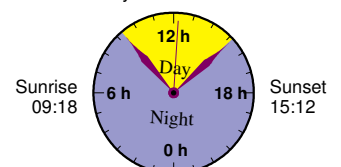
Autumn Equinox

Winter



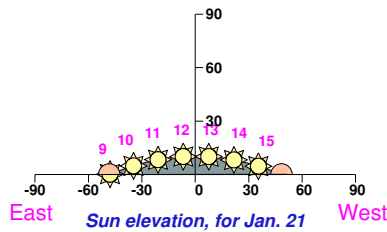
Dec. 21

Day duration 5:53

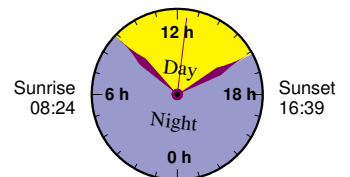


Winter Solstice

January 2018



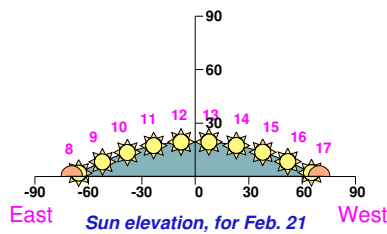
Oslo
10.75°E, 59.916°N



Duration of the day, for January 21

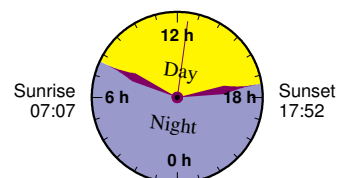
Sunrise and Sunset at Oslo (TL ± 1 mn) and sun maximal elevation (°)

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1	1 1 - 364 09:19 - 15:23 7°	2 2 - 363 09:18 - 15:24 7°	3 3 - 362 09:18 - 15:26 7°	4 4 - 361 09:17 - 15:28 8°	5 5 - 360 09:16 - 15:29 8°	6 6 - 359 09:15 - 15:31 8°	7 7 - 358 09:14 - 15:33 8°
2	8 8 - 357 09:13 - 15:35 8°	9 9 - 356 09:12 - 15:37 8°	10 10 - 355 09:11 - 15:39 8°	11 11 - 354 09:10 - 15:41 8°	12 12 - 353 09:09 - 15:43 9°	13 13 - 352 09:07 - 15:45 9°	14 14 - 351 09:06 - 15:47 9°
3	15 15 - 350 09:04 - 15:49 9°	16 16 - 349 09:03 - 15:52 9°	17 17 - 348 09:01 - 15:54 9°	18 18 - 347 08:59 - 15:56 10°	19 19 - 346 08:58 - 15:59 10°	20 20 - 345 08:56 - 16:01 10°	21 21 - 344 08:54 - 16:04 10°
4	22 22 - 343 08:52 - 16:06 11°	23 23 - 342 08:50 - 16:08 11°	24 24 - 341 08:48 - 16:11 11°	25 25 - 340 08:46 - 16:13 11°	26 26 - 339 08:44 - 16:16 12°	27 27 - 338 08:42 - 16:19 12°	28 28 - 337 08:40 - 16:21 12°
5	29 29 - 336 08:38 - 16:24 12°	30 30 - 335 08:35 - 16:26 13°	31 31 - 334 08:33 - 16:29 13°				



February 2018

Oslo
10.75°E, 59.916°N



Duration of the day, for February 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

5

6

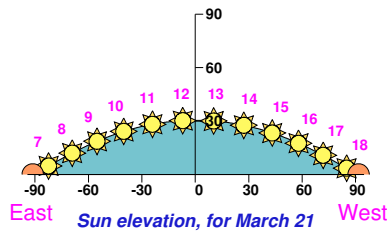
7

8

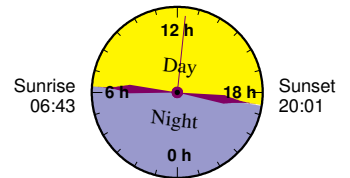
9

			1 32 - 333 08:31 - 16:32 13° 	2 33 - 332 08:28 - 16:34 13° 	3 34 - 331 08:26 - 16:37 14° 	4 35 - 330 08:24 - 16:39 14°
5	5 36 - 329 08:21 - 16:42 14° 	6 37 - 328 08:19 - 16:45 15° 	7 38 - 327 08:16 - 16:47 15° 	8 39 - 326 08:14 - 16:50 15° 	9 40 - 325 08:11 - 16:53 16° 	10 41 - 324 08:09 - 16:55 16°
6						
7	12 43 - 322 08:03 - 17:00 17° 	13 44 - 321 08:01 - 17:03 17° 	14 45 - 320 07:58 - 17:06 17° 	15 46 - 319 07:55 - 17:08 18° 	16 47 - 318 07:53 - 17:11 18° 	17 48 - 317 07:50 - 17:14 18°
8	19 50 - 315 07:44 - 17:19 19° 	20 51 - 314 07:42 - 17:21 19° 	21 52 - 313 07:39 - 17:24 20° 	22 53 - 312 07:36 - 17:26 20° 	23 54 - 311 07:33 - 17:29 20° 	24 55 - 310 07:30 - 17:32 21°
9	26 57 - 308 07:25 - 17:37 21° 	27 58 - 307 07:22 - 17:39 22° 	28 59 - 306 07:19 - 17:42 22° 			25 56 - 309 07:27 - 17:34 21°

March 2018



Oslo
10.75°E, 59.916°N



Duration of the day, for March 21

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

Time change March 25

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

1 60 - 305
07:16 - 17:44 23°

2 61 - 304
07:13 - 17:47 23°

3 62 - 303
07:10 - 17:49 23°

4 63 - 302
07:07 - 17:52 24°

5 64 - 301
07:04 - 17:54 24°

6 65 - 300
07:01 - 17:57 25°

7 66 - 299
06:58 - 17:59 25°

8 67 - 298
06:55 - 18:02 25°

9 68 - 297
06:52 - 18:04 26°

10 69 - 296
06:49 - 18:07 26°

11 70 - 295
06:46 - 18:09 26°

12 71 - 294
06:43 - 18:12 27°

13 72 - 293
06:40 - 18:14 27°

14 73 - 292
06:37 - 18:17 28°

15 74 - 291
06:34 - 18:19 28°

16 75 - 290
06:31 - 18:22 28°

17 76 - 289
06:28 - 18:24 29°

18 77 - 288
06:25 - 18:27 29°

19 78 - 287
06:22 - 18:29 30°

20 79 - 286
06:19 - 18:31 30°

21 80 - 285
06:16 - 18:34 30°

22 81 - 284
06:13 - 18:36 31°

23 82 - 283
06:10 - 18:39 31°

24 83 - 282
06:07 - 18:41 32°

25 84 - 281
07:04 - 19:44 32°

26 85 - 280
07:01 - 19:46 32°

27 86 - 279
06:58 - 19:48 33°

28 87 - 278
06:55 - 19:51 33°

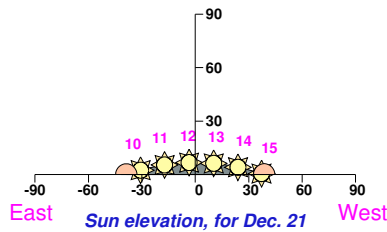
29 88 - 277
06:52 - 19:53 34°

30 89 - 276
06:49 - 19:56 34°

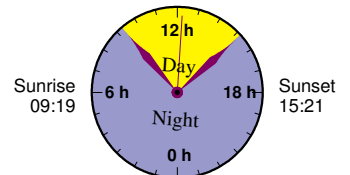
31 90 - 275
06:46 - 19:58 34°

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December 2018



Oslo
10.75°E, 59.916°N



Duration of the day, for December 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

1 335 - 30
08:51 - 15:21 8°

2 336 - 29
08:53 - 15:20 8°

3 337 - 28
08:55 - 15:18 8°

4 338 - 27
08:57 - 15:17 8°

5 339 - 26
08:59 - 15:16 8°

6 340 - 25
09:01 - 15:15 8°

7 341 - 24
09:02 - 15:15 8°

8 342 - 23
09:04 - 15:14 7°

9 343 - 22
09:05 - 15:13 7°

10 344 - 21
09:07 - 15:13 7°

11 345 - 20
09:08 - 15:12 7°

12 346 - 19
09:10 - 15:12 7°

13 347 - 18
09:11 - 15:11 7°

14 348 - 17
09:12 - 15:11 7°

15 349 - 16
09:13 - 15:11 7°

16 350 - 15
09:14 - 15:11 7°

17 351 - 14
09:15 - 15:11 7°

18 352 - 13
09:16 - 15:11 7°

19 353 - 12
09:17 - 15:11 7°

20 354 - 11
09:18 - 15:12 7°

21 355 - 10
09:18 - 15:12 7°

22 356 - 9
09:19 - 15:13 7°

23 357 - 8
09:19 - 15:13 7°

24 358 - 7
09:19 - 15:14 7°

25 359 - 6
09:20 - 15:15 7°

26 360 - 5
09:20 - 15:16 7°

27 361 - 4
09:20 - 15:17 7°

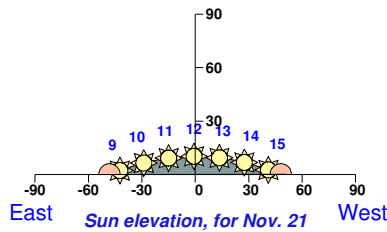
28 362 - 3
09:20 - 15:18 7°

29 363 - 2
09:20 - 15:19 7°

30 364 - 1
09:19 - 15:20 7°

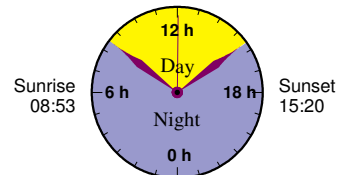
31 365 - 0
09:19 - 15:21 7°

Sun Calendar © P. Robert / ScientiDev, Déc. 2014



November 2018

Oslo
10.75°E, 59.916°N



Duration of the day, for November 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

44

45

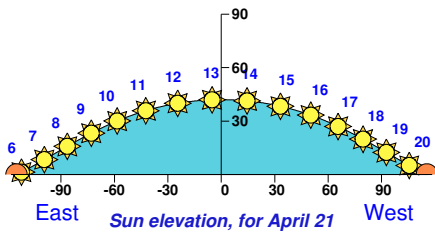
46

47

48

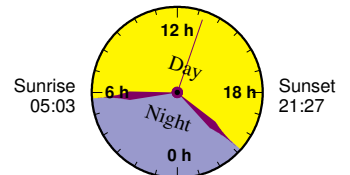
			1 305 - 60 07:39 - 16:22 16°	2 306 - 59 07:41 - 16:19 15°	3 307 - 58 07:44 - 16:17 15°	4 308 - 57 07:46 - 16:14 15°
5 309 - 56 07:49 - 16:12 14°	6 310 - 55 07:51 - 16:09 14°	7 311 - 54 07:54 - 16:07 14°	8 312 - 53 07:57 - 16:04 14°	9 313 - 52 07:59 - 16:02 13°	10 314 - 51 08:02 - 16:00 13°	11 315 - 50 08:04 - 15:57 13°
12 316 - 49 08:07 - 15:55 12°	13 317 - 48 08:09 - 15:53 12°	14 318 - 47 08:12 - 15:51 12°	15 319 - 46 08:14 - 15:49 12°	16 320 - 45 08:17 - 15:46 11°	17 321 - 44 08:19 - 15:44 11°	18 322 - 43 08:22 - 15:42 11°
19 323 - 42 08:24 - 15:40 11°	20 324 - 41 08:27 - 15:38 10°	21 325 - 40 08:29 - 15:36 10°	22 326 - 39 08:31 - 15:35 10°	23 327 - 38 08:34 - 15:33 10°	24 328 - 37 08:36 - 15:31 10°	25 329 - 36 08:38 - 15:29 9°
26 330 - 35 08:40 - 15:28 9°	27 331 - 34 08:43 - 15:26 9°	28 332 - 33 08:45 - 15:25 9°	29 333 - 32 08:47 - 15:23 9°	30 334 - 31 08:49 - 15:22 9°		

Sun Calendar © P. Robert / ScientiDev, Déc. 2014



April 2018

Oslo
10.75°E, 59.916°N



Duration of the day, for April 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

13

14

15

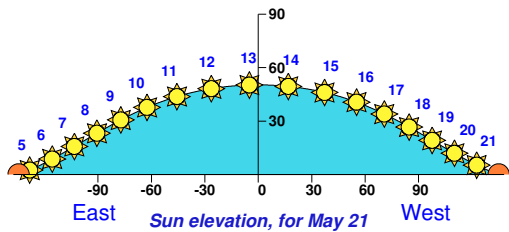
16

17

18

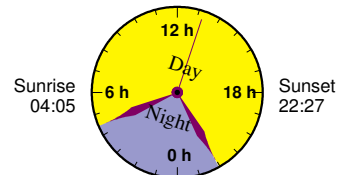
						1 91 - 274 06:43 - 20:01 35°
2 92 - 273 06:40 - 20:03 35°	3 93 - 272 06:37 - 20:05 35°	4 94 - 271 06:34 - 20:08 36°	5 95 - 270 06:31 - 20:10 36°	6 96 - 269 06:28 - 20:13 37°	7 97 - 268 06:25 - 20:15 37°	8 98 - 267 06:22 - 20:18 37°
9 99 - 266 06:19 - 20:20 38°	10 100 - 265 06:16 - 20:22 38°	11 101 - 264 06:13 - 20:25 38°	12 102 - 263 06:10 - 20:27 39°	13 103 - 262 06:07 - 20:30 39°	14 104 - 261 06:04 - 20:32 40°	15 105 - 260 06:01 - 20:35 40°
16 106 - 259 05:58 - 20:37 40°	17 107 - 258 05:55 - 20:40 41°	18 108 - 257 05:53 - 20:42 41°	19 109 - 256 05:50 - 20:45 41°	20 110 - 255 05:47 - 20:47 42°	21 111 - 254 05:44 - 20:50 42°	22 112 - 253 05:41 - 20:52 42°
23 113 - 252 05:38 - 20:55 43°	24 114 - 251 05:35 - 20:57 43°	25 115 - 250 05:33 - 20:59 43°	26 116 - 249 05:30 - 21:02 44°	27 117 - 248 05:27 - 21:04 44°	28 118 - 247 05:24 - 21:07 44°	29 119 - 246 05:21 - 21:09 45°
30 120 - 245 05:19 - 21:12 45°						

Sun Calendar © P. Robert / ScientiDev, Déc. 2014



May 2018

Oslo
10.75°E, 59.916°N



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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

18

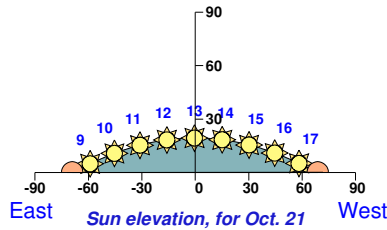
19

20

21

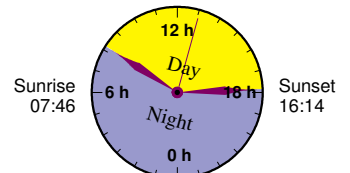
22

Sun Calendar © P. Robert / ScientiDev, Déc. 2014



October 2018

Oslo
10.75°E, 59.916°N



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

Time change October 28

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

40

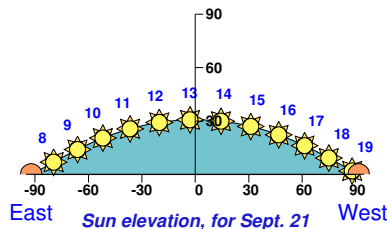
41

42

43

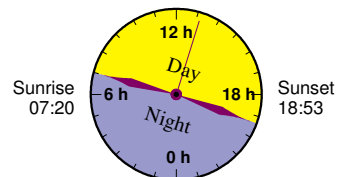
44

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September 2018

Oslo
10.75°E, 59.916°N



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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

35

36

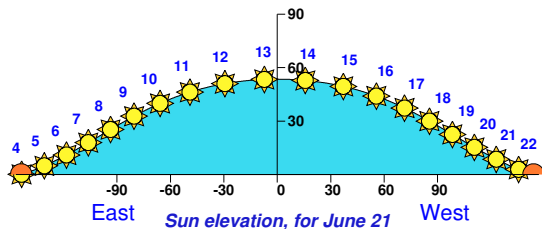
37

38

39

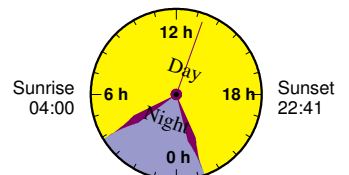
1 244 - 121 06:12 - 20:21 38°	2 245 - 120 06:14 - 20:18 38°
3 246 - 119 06:17 - 20:15 38°	4 247 - 118 06:19 - 20:12 37°
5 248 - 117 06:21 - 20:09 37°	6 249 - 116 06:24 - 20:06 36°
7 250 - 115 06:26 - 20:03 36°	8 251 - 114 06:28 - 20:00 36°
9 252 - 113 06:31 - 19:57 35°	10 253 - 112 06:33 - 19:54 35°
11 254 - 111 06:35 - 19:51 35°	12 255 - 110 06:38 - 19:48 34°
13 256 - 109 06:40 - 19:45 34°	14 257 - 108 06:42 - 19:42 33°
15 258 - 107 06:45 - 19:39 33°	16 259 - 106 06:47 - 19:36 33°
17 260 - 105 06:49 - 19:33 32°	18 261 - 104 06:52 - 19:30 32°
19 262 - 103 06:54 - 19:27 32°	20 263 - 102 06:56 - 19:23 31°
21 264 - 101 06:59 - 19:20 31°	22 265 - 100 07:01 - 19:17 30°
23 266 - 99 07:03 - 19:14 30°	24 267 - 98 07:06 - 19:11 30°
25 268 - 97 07:08 - 19:08 29°	26 269 - 96 07:10 - 19:05 29°
27 270 - 95 07:13 - 19:02 28°	28 271 - 94 07:15 - 18:59 28°
29 272 - 93 07:17 - 18:56 28°	30 273 - 92 07:20 - 18:53 27°

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June 2018

Oslo
10.75°E, 59.916°N



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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

22

23

24

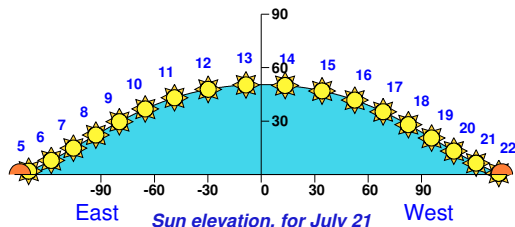
25

26

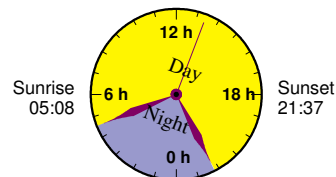
1 152 - 213 04:07 - 22:24 52°	2 153 - 212 04:06 - 22:25 52°	3 154 - 211 04:05 - 22:27 52°
4 155 - 210 04:03 - 22:29 53°	5 156 - 209 04:02 - 22:30 53°	6 157 - 208 04:01 - 22:32 53°
7 158 - 207 04:00 - 22:33 53°	8 159 - 206 03:59 - 22:34 53°	9 160 - 205 03:58 - 22:36 53°
10 161 - 204 03:57 - 22:37 53°	11 162 - 203 03:56 - 22:38 53°	12 163 - 202 03:56 - 22:39 53°
13 164 - 201 03:55 - 22:40 53°	14 165 - 200 03:55 - 22:41 53°	15 166 - 199 03:54 - 22:41 53°
16 167 - 198 03:54 - 22:42 53°	17 168 - 197 03:54 - 22:43 53°	18 169 - 196 03:54 - 22:43 54°
19 170 - 195 03:54 - 22:44 54°	20 171 - 194 03:54 - 22:44 54°	21 172 - 193 03:54 - 22:44 54°
22 173 - 192 03:54 - 22:44 54°	23 174 - 191 03:54 - 22:44 54°	24 175 - 190 03:55 - 22:44 54°
25 176 - 189 03:55 - 22:44 53°	26 177 - 188 03:56 - 22:44 53°	27 178 - 187 03:57 - 22:43 53°
28 179 - 186 03:57 - 22:43 53°	29 180 - 185 03:58 - 22:43 53°	30 181 - 184 03:59 - 22:42 53°

Sun Calendar © P. Robert / ScientiDev, Déc. 2014

July 2018



Oslo
10.75°E, 59.916°N



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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

26

27

28

29

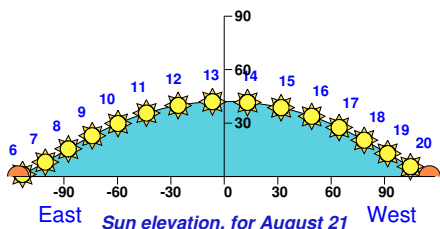
30

31

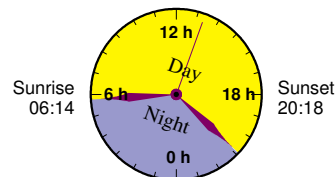
						1 182 - 183 04:00 - 22:41 53°
2 183 - 182 04:01 - 22:41 53°	3 184 - 181 04:02 - 22:40 53°	4 185 - 180 04:04 - 22:39 53°	5 186 - 179 04:05 - 22:38 53°	6 187 - 178 04:06 - 22:37 53°	7 188 - 177 04:08 - 22:35 53°	8 189 - 176 04:09 - 22:34 53°
9 190 - 175 04:11 - 22:33 52°	10 191 - 174 04:12 - 22:32 52°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

Sun Calendar © P. Robert / ScientiDev, Déc. 2014

August 2018



Oslo
10.75°E, 59.916°N



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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

31

32

33

34

35

		1 213 - 152 04:58 - 21:47 48°	2 214 - 151 05:00 - 21:45 48°	3 215 - 150 05:03 - 21:42 48°	4 216 - 149 05:05 - 21:40 47°	5 217 - 148 05:08 - 21:37 47°
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27 239 - 126 06:00 - 20:36 40°	28 240 - 125 06:02 - 20:33 40°	29 241 - 124 06:05 - 20:30 39°	30 242 - 123 06:07 - 20:27 39°	31 243 - 122 06:10 - 20:24 39°		

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