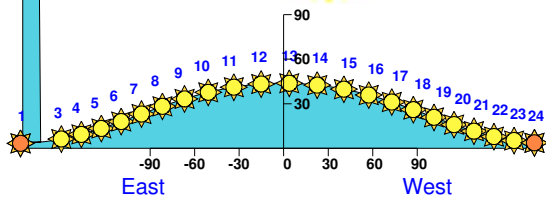


Sun Calendar 2024

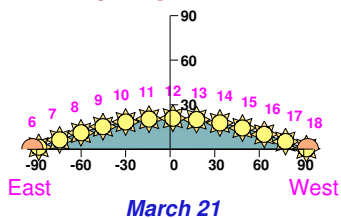
Produced by *ScientiDev*
www.scientidev.fr

Tromso
18.95°E, 69.65°N

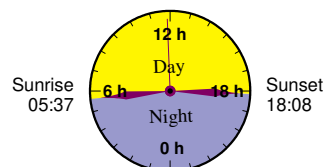
Summer



Spring

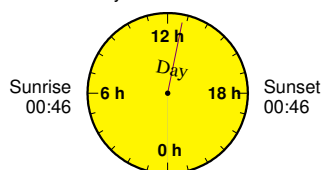


Day duration 12:30



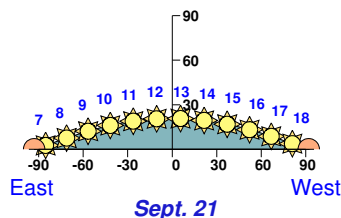
Spring Equinox

Day duration 24:00

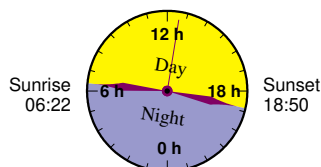


Summer Solstice

Autumn

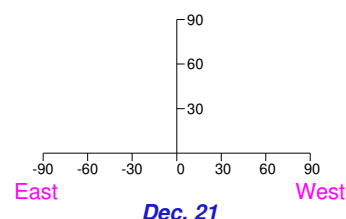


Day duration 12:28

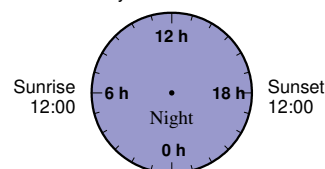


Autumn Equinox

Winter

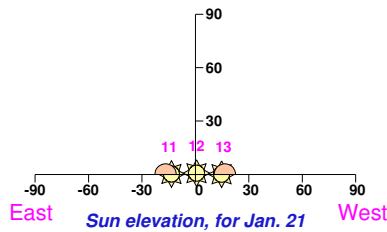


Day duration 00:00



Winter Solstice

January 2024



Tromsø
18.95°E, 69.65°N



Duration of the day, for January 21

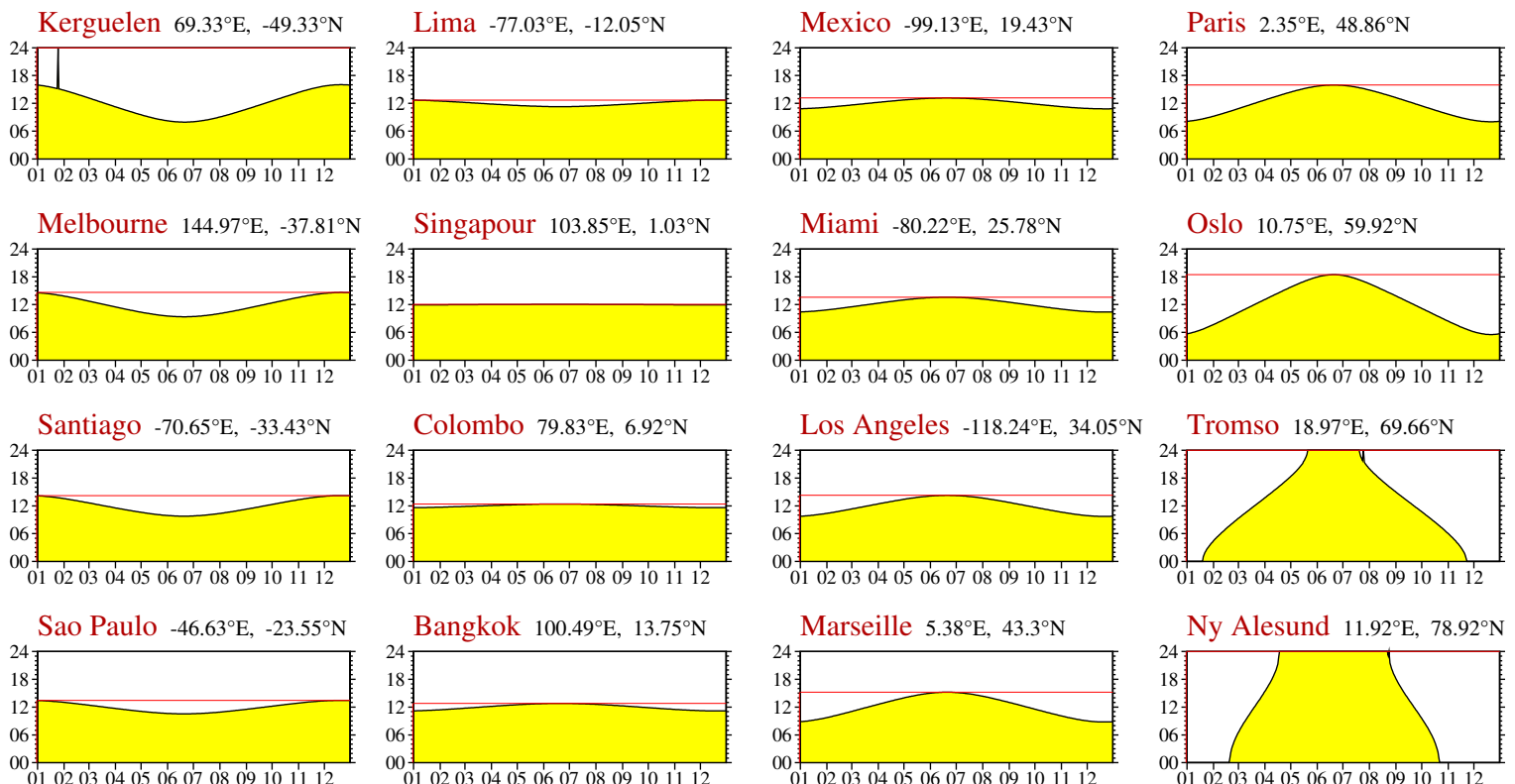
Sunrise and Sunset at Tromsø (TL $\pm$ 1 mn) and sun maximal elevation (°)

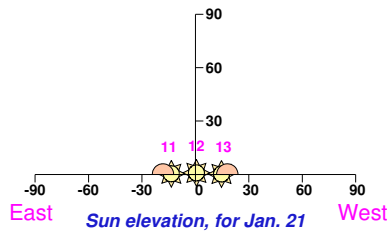
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1	1 1 - 365 Polar Night	2 2 - 364 Polar Night	3 3 - 363 Polar Night	4 4 - 362 Polar Night	5 5 - 361 Polar Night	6 6 - 360 Polar Night	7 7 - 359 Polar Night
2	8 8 - 358 Polar Night	9 9 - 357 Polar Night	10 10 - 356 Polar Night	11 11 - 355 Polar Night	12 12 - 354 Polar Night	13 13 - 353 Polar Night	14 14 - 352 Polar Night
3	15 15 - 351 11:45 - 12:03 0°	16 16 - 350 11:21 - 12:28 0°	17 17 - 349 11:08 - 12:42 0°	18 18 - 348 10:57 - 12:53 0°	19 19 - 347 10:48 - 13:02 1°	20 20 - 346 10:40 - 13:11 1°	21 21 - 345 10:33 - 13:19 1°
4	22 22 - 344 10:26 - 13:27 1°	23 23 - 343 10:19 - 13:34 1°	24 24 - 342 10:12 - 13:41 1°	25 25 - 341 10:06 - 13:48 2°	26 26 - 340 10:00 - 13:54 2°	27 27 - 339 09:54 - 14:01 2°	28 28 - 338 09:49 - 14:07 2°
5	29 29 - 337 09:43 - 14:13 3°	30 30 - 336 09:38 - 14:19 3°	31 31 - 335 09:32 - 14:24 3°				

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

Day duration for any cities for 2024





January 2025

Tromsø
18.95°E, 69.65°N

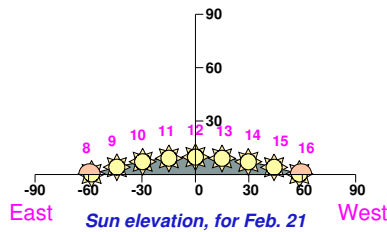


Sunrise and Sunset at Tromsø (TL $\pm$ 1 mn) and sun maximal elevation (°)

Duration of the day, for January 21

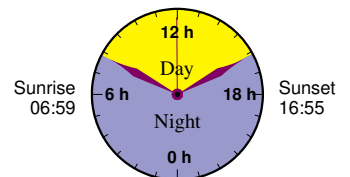
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1			1 - 365 Polar Night	2 - 363 Polar Night	3 - 362 Polar Night	4 - 361 Polar Night	5 - 360 Polar Night
2	6 - 359 Polar Night	7 - 358 Polar Night	8 - 357 Polar Night	9 - 356 Polar Night	10 - 355 Polar Night	11 - 354 Polar Night	12 - 353 Polar Night
3	13 - 352 Polar Night	14 - 351 Polar Night	15 - 350 11:25 - 12:24 0°	16 - 349 11:10 - 12:39 0°	17 - 348 11:00 - 12:50 0°	18 - 347 10:50 - 13:00 1°	19 - 346 10:42 - 13:09 1°
4	20 - 345 10:34 - 13:17 1°	21 - 344 10:27 - 13:25 1°	22 - 343 10:20 - 13:32 1°	23 - 342 10:14 - 13:39 1°	24 - 341 10:08 - 13:46 2°	25 - 340 10:02 - 13:53 2°	26 - 339 09:56 - 13:59 2°
5	27 - 338 09:50 - 14:05 2°	28 - 337 09:44 - 14:11 3°	29 - 336 09:39 - 14:17 3°	30 - 335 09:34 - 14:23 3°	31 - 334 09:28 - 14:29 3°		

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



February 2024

Tromsø
18.95°E, 69.65°N



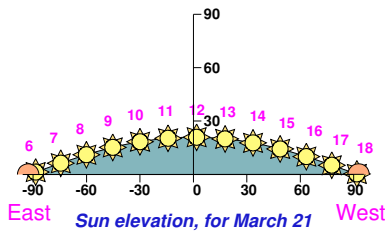
Sunrise and Sunset at Tromsø (TL $\pm$ 1 mn) and sun maximal elevation (°)

Duration of the day, for February 21

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
5				1 - 32 - 334 09:27 - 14:30 3°	2 - 33 - 333 09:22 - 14:35 4°	3 - 34 - 332 09:17 - 14:41 4°	4 - 35 - 331 09:11 - 14:46 4°
6	5 - 36 - 330 09:06 - 14:51 5°	6 - 37 - 329 09:01 - 14:57 5°	7 - 38 - 328 08:56 - 15:02 5°	8 - 39 - 327 08:51 - 15:07 5°	9 - 40 - 326 08:46 - 15:12 6°	10 - 41 - 325 08:42 - 15:17 6°	11 - 42 - 324 08:37 - 15:22 6°
7	12 - 43 - 323 08:32 - 15:27 7°	13 - 44 - 322 08:27 - 15:31 7°	14 - 45 - 321 08:22 - 15:36 7°	15 - 46 - 320 08:18 - 15:41 8°	16 - 47 - 319 08:13 - 15:45 8°	17 - 48 - 318 08:08 - 15:50 8°	18 - 49 - 317 08:04 - 15:55 9°
8	19 - 50 - 316 07:59 - 15:59 9°	20 - 51 - 315 07:54 - 16:04 9°	21 - 52 - 314 07:50 - 16:08 10°	22 - 53 - 313 07:45 - 16:12 10°	23 - 54 - 312 07:40 - 16:17 11°	24 - 55 - 311 07:36 - 16:21 11°	25 - 56 - 310 07:31 - 16:26 11°
9	26 - 57 - 309 07:26 - 16:30 12°	27 - 58 - 308 07:22 - 16:34 12°	28 - 59 - 307 07:17 - 16:38 12°	29 - 60 - 306 07:13 - 16:43 13°			

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March 2024



Tromso
18.95°E, 69.65°N



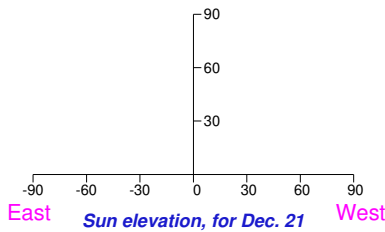
Sunrise and Sunset at Tromso (TL ± 1 mn) and sun maximal elevation (°)

Time change March 31

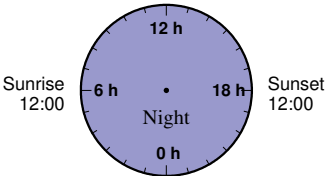
Monday Tuesday Wednesday Thursday Friday Saturday Sunday

				161 - 305 07:08 - 16:47 13°	262 - 304 07:04 - 16:51 13°	363 - 303 06:59 - 16:55 14°
464 - 302 06:55 - 16:59 14°	565 - 301 06:50 - 17:03 15°	666 - 300 06:45 - 17:07 15°	767 - 299 06:41 - 17:12 15°	868 - 298 06:36 - 17:16 16°	969 - 297 06:32 - 17:20 16°	1070 - 296 06:27 - 17:24 17°
1171 - 295 06:23 - 17:28 17°	1272 - 294 06:18 - 17:32 17°	1373 - 293 06:14 - 17:36 18°	1474 - 292 06:09 - 17:40 18°	1575 - 291 06:05 - 17:44 19°	1676 - 290 06:00 - 17:48 19°	1777 - 289 05:56 - 17:52 19°
1878 - 288 05:51 - 17:56 20°	1979 - 287 05:46 - 18:00 20°	2080 - 286 05:42 - 18:04 21°	2181 - 285 05:37 - 18:08 21°	2282 - 284 05:33 - 18:12 21°	2383 - 283 05:28 - 18:16 22°	2484 - 282 05:24 - 18:20 22°
2585 - 281 05:19 - 18:24 22°	2686 - 280 05:15 - 18:28 23°	2787 - 279 05:10 - 18:32 23°	2888 - 278 05:05 - 18:36 24°	2989 - 277 05:01 - 18:40 24°	3090 - 276 04:56 - 18:44 24°	3191 - 275 05:52 - 19:48 25°

December 2024



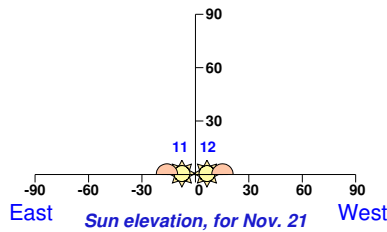
Tromso
18.95°E, 69.65°N



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

Monday Tuesday Wednesday Thursday Friday Saturday Sunday

						1336 - 30 Polar Night
2337 - 29 Polar Night	3338 - 28 Polar Night	4339 - 27 Polar Night	5340 - 26 Polar Night	6341 - 25 Polar Night	7342 - 24 Polar Night	8343 - 23 Polar Night
9344 - 22 Polar Night	10345 - 21 Polar Night	11346 - 20 Polar Night	12347 - 19 Polar Night	13348 - 18 Polar Night	14349 - 17 Polar Night	15350 - 16 Polar Night
16351 - 15 Polar Night	17352 - 14 Polar Night	18353 - 13 Polar Night	19354 - 12 Polar Night	20355 - 11 Polar Night	21356 - 10 Polar Night	22357 - 9 Polar Night
23358 - 8 Polar Night	24359 - 7 Polar Night	25360 - 6 Polar Night	26361 - 5 Polar Night	27362 - 4 Polar Night	28363 - 3 Polar Night	29364 - 2 Polar Night
30365 - 1 Polar Night	31366 - 0 Polar Night					



November 2024

Tromsø
18.95°E, 69.65°N



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

Duration of the day, for November 21

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

44

45

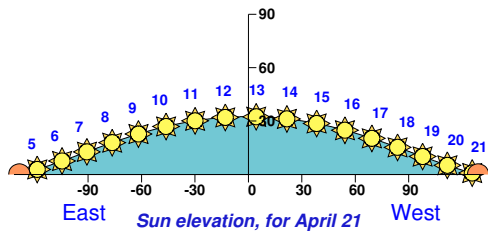
46

47

48

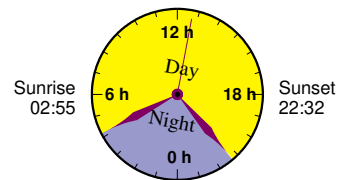
				1 306 - 60 08:13 - 14:42 6°	2 307 - 59 08:18 - 14:37 6°	3 308 - 58 08:23 - 14:32 5°
4 309 - 57 08:28 - 14:27 5°	5 310 - 56 08:33 - 14:22 5°	6 311 - 55 08:38 - 14:17 4°	7 312 - 54 08:43 - 14:12 4°	8 313 - 53 08:49 - 14:07 4°	9 314 - 52 08:54 - 14:01 4°	10 315 - 51 08:59 - 13:56 3°
11 316 - 50 09:05 - 13:51 3°	12 317 - 49 09:11 - 13:45 3°	13 318 - 48 09:17 - 13:40 2°	14 319 - 47 09:23 - 13:34 2°	15 320 - 46 09:29 - 13:28 2°	16 321 - 45 09:35 - 13:23 2°	17 322 - 44 09:41 - 13:16 2°
18 323 - 43 09:48 - 13:10 1°	19 324 - 42 09:55 - 13:04 1°	20 325 - 41 10:02 - 12:57 1°	21 326 - 40 10:10 - 12:50 1°	22 327 - 39 10:19 - 12:42 1°	23 328 - 38 10:28 - 12:33 0°	24 329 - 37 10:38 - 12:24 0°
25 330 - 36 10:50 - 12:13 0°	26 331 - 35 11:06 - 11:57 0°	27 332 - 34 Polar Night	28 333 - 33 Polar Night	29 334 - 32 Polar Night	30 335 - 31 Polar Night	

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April 2024

Tromsø
18.95°E, 69.65°N



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

Duration of the day, for April 21

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

14

15

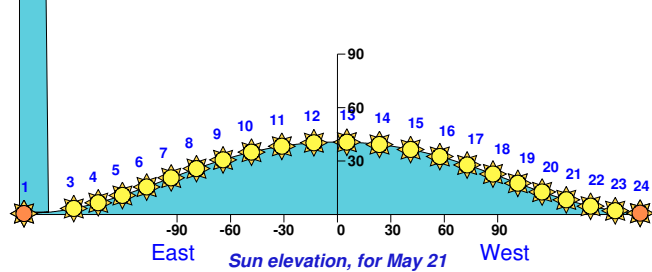
16

17

18

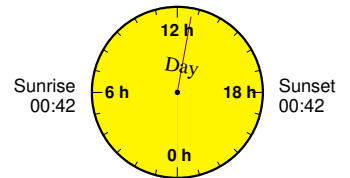
1 92 - 274 05:47 - 19:52 25°	2 93 - 273 05:42 - 19:56 26°	3 94 - 272 05:38 - 20:00 26°	4 95 - 271 05:33 - 20:04 26°	5 96 - 270 05:28 - 20:08 27°	6 97 - 269 05:24 - 20:12 27°	7 98 - 268 05:19 - 20:17 27°
8 99 - 267 05:14 - 20:21 28°	9 100 - 266 05:10 - 20:25 28°	10 101 - 265 05:05 - 20:29 29°	11 102 - 264 05:00 - 20:33 29°	12 103 - 263 04:55 - 20:38 29°	13 104 - 262 04:50 - 20:42 30°	14 105 - 261 04:46 - 20:46 30°
15 106 - 260 04:41 - 20:51 30°	16 107 - 259 04:36 - 20:55 31°	17 108 - 258 04:31 - 21:00 31°	18 109 - 257 04:26 - 21:04 31°	19 110 - 256 04:21 - 21:09 32°	20 111 - 255 04:16 - 21:14 32°	21 112 - 254 04:11 - 21:18 32°
22 113 - 253 04:06 - 21:23 33°	23 114 - 252 04:01 - 21:28 33°	24 115 - 251 03:56 - 21:33 33°	25 116 - 250 03:51 - 21:38 34°	26 117 - 249 03:46 - 21:43 34°	27 118 - 248 03:40 - 21:48 34°	28 119 - 247 03:35 - 21:53 35°
29 120 - 246 03:29 - 21:58 35°	30 121 - 245 03:24 - 22:03 35°					

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May 2024

Tromsø
18.95°E, 69.65°N

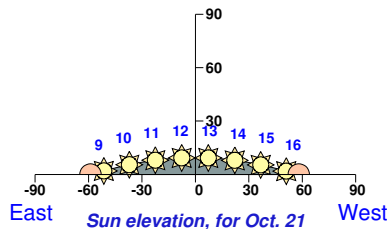


Duration of the day, for May 21

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

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
18			1 122 - 244 03:18 - 22:09 36°	2 123 - 243 03:13 - 22:14 36°	3 124 - 242 03:07 - 22:20 36°	4 125 - 241 03:01 - 22:26 37°	5 126 - 240 02:55 - 22:32 37°
19	6 127 - 239 02:49 - 22:38 37°	7 128 - 238 02:42 - 22:45 37°	8 129 - 237 02:36 - 22:52 38°	9 130 - 236 02:29 - 22:59 38°	10 131 - 235 02:22 - 23:06 38°	11 132 - 234 02:14 - 23:14 38°	12 133 - 233 01:58 - 23:22 39°
20	13 134 - 232 01:49 - 23:32 39°	14 135 - 231 01:38 - 23:42 39°	15 136 - 230 01:26 - 23:55 39°	16 137 - 229 01:08 - 00:13 40°	17 138 - 228 Day at anytime	18 139 - 227 Day at anytime	19 140 - 226 Day at anytime
21	20 141 - 225 Day at anytime	21 142 - 224 Day at anytime	22 143 - 223 Day at anytime	23 144 - 222 Day at anytime	24 145 - 221 Day at anytime	25 146 - 220 Day at anytime	26 147 - 219 Day at anytime
22	27 148 - 218 Day at anytime	28 149 - 217 Day at anytime	29 150 - 216 Day at anytime	30 151 - 215 Day at anytime	31 152 - 214 Day at anytime		

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October 2024

Tromsø
18.95°E, 69.65°N



Duration of the day, for October 21

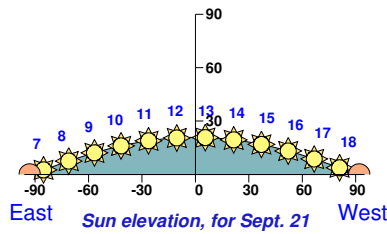
Sunrise and Sunset at Tromsø (TL ± 1 mn) and sun maximal elevation (°)

Time change October 27

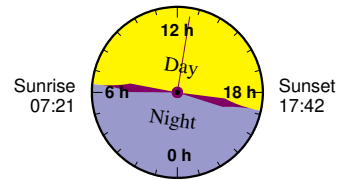
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
40		1 275 - 91 07:01 - 18:05 17°	2 276 - 90 07:05 - 18:00 17°	3 277 - 89 07:09 - 17:56 16°	4 278 - 88 07:13 - 17:51 16°	5 279 - 87 07:17 - 17:47 15°	6 280 - 86 07:21 - 17:42 15°
41	7 281 - 85 07:25 - 17:38 15°	8 282 - 84 07:29 - 17:33 14°	9 283 - 83 07:33 - 17:29 14°	10 284 - 82 07:37 - 17:24 14°	11 285 - 81 07:41 - 17:20 13°	12 286 - 80 07:45 - 17:15 13°	13 287 - 79 07:49 - 17:10 12°
42	14 288 - 78 07:53 - 17:06 12°	15 289 - 77 07:57 - 17:01 12°	16 290 - 76 08:01 - 16:57 11°	17 291 - 75 08:06 - 16:52 11°	18 292 - 74 08:10 - 16:48 11°	19 293 - 73 08:14 - 16:43 10°	20 294 - 72 08:18 - 16:38 10°
43	21 295 - 71 08:23 - 16:34 9°	22 296 - 70 08:27 - 16:29 9°	23 297 - 69 08:31 - 16:24 9°	24 298 - 68 08:36 - 16:20 8°	25 299 - 67 08:40 - 16:15 8°	26 300 - 66 08:45 - 16:10 8°	27 301 - 65 07:49 - 15:06 7°
44	28 302 - 64 07:54 - 15:01 7°	29 303 - 63 07:59 - 14:56 7°	30 304 - 62 08:03 - 14:51 6°	31 305 - 61 08:08 - 14:46 6°			

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

September 2024



Tromso
18.95°E, 69.65°N



Duration of the day, for September 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

35

36

37

38

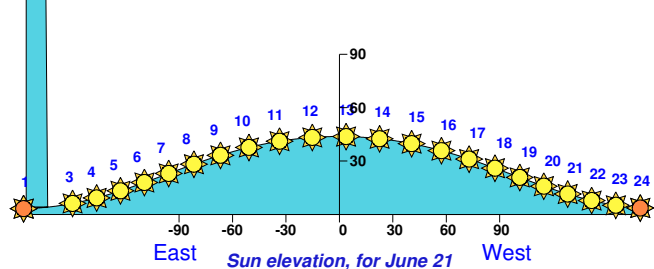
39

40

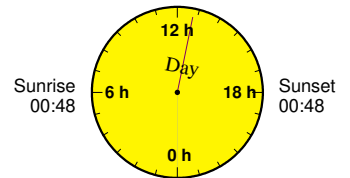
						1 245 - 121 05:03 - 20:22 28°
2 246 - 120 05:07 - 20:18 28°	3 247 - 119 05:11 - 20:13 28°	4 248 - 118 05:15 - 20:08 27°	5 249 - 117 05:19 - 20:04 27°	6 250 - 116 05:23 - 19:59 27°	7 251 - 115 05:27 - 19:54 26°	8 252 - 114 05:31 - 19:50 26°
9 253 - 113 05:35 - 19:45 25°	10 254 - 112 05:39 - 19:41 25°	11 255 - 111 05:43 - 19:36 25°	12 256 - 110 05:47 - 19:31 24°	13 257 - 109 05:51 - 19:27 24°	14 258 - 108 05:55 - 19:22 24°	15 259 - 107 05:59 - 19:18 23°
16 260 - 106 06:03 - 19:13 23°	17 261 - 105 06:07 - 19:08 22°	18 262 - 104 06:11 - 19:04 22°	19 263 - 103 06:14 - 18:59 22°	20 264 - 102 06:18 - 18:55 21°	21 265 - 101 06:22 - 18:50 21°	22 266 - 100 06:26 - 18:46 20°
23 267 - 99 06:30 - 18:41 20°	24 268 - 98 06:34 - 18:37 20°	25 269 - 97 06:38 - 18:32 19°	26 270 - 96 06:41 - 18:28 19°	27 271 - 95 06:45 - 18:23 18°	28 272 - 94 06:49 - 18:19 18°	29 273 - 93 06:53 - 18:14 18°
30 274 - 92 06:57 - 18:09 17°						

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June 2024



Tromso
18.95°E, 69.65°N



Duration of the day, for June 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

22

23

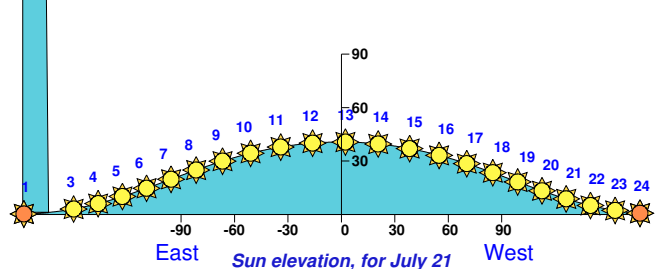
24

25

26

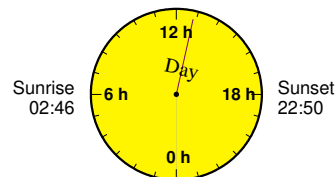
					1 153 - 213 Day at anytime	2 154 - 212 Day at anytime
3 155 - 211 Day at anytime	4 156 - 210 Day at anytime	5 157 - 209 Day at anytime	6 158 - 208 Day at anytime	7 159 - 207 Day at anytime	8 160 - 206 Day at anytime	9 161 - 205 Day at anytime
10 162 - 204 Day at anytime	11 163 - 203 Day at anytime	12 164 - 202 Day at anytime	13 165 - 201 Day at anytime	14 166 - 200 Day at anytime	15 167 - 199 Day at anytime	16 168 - 198 Day at anytime
17 169 - 197 Day at anytime	18 170 - 196 Day at anytime	19 171 - 195 Day at anytime	20 172 - 194 Day at anytime	21 173 - 193 Day at anytime	22 174 - 192 Day at anytime	23 175 - 191 Day at anytime
24 176 - 190 Day at anytime	25 177 - 189 Day at anytime	26 178 - 188 Day at anytime	27 179 - 187 Day at anytime	28 180 - 186 Day at anytime	29 181 - 185 Day at anytime	30 182 - 184 Day at anytime

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July 2024

Tromsø
18.95°E, 69.65°N

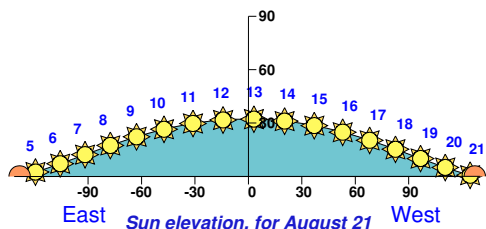


Duration of the day, for July 21

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

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
27	1 183 - 183 Day at anytime	2 184 - 182 Day at anytime	3 185 - 181 Day at anytime	4 186 - 180 Day at anytime	5 187 - 179 Day at anytime	6 188 - 178 Day at anytime	7 189 - 177 Day at anytime
28	8 190 - 176 Day at anytime	9 191 - 175 Day at anytime	10 192 - 174 Day at anytime	11 193 - 173 Day at anytime	12 194 - 172 Day at anytime	13 195 - 171 Day at anytime	14 196 - 170 Day at anytime
29	15 197 - 169 Day at anytime	16 198 - 168 Day at anytime	17 199 - 167 Day at anytime	18 200 - 166 Day at anytime	19 201 - 165 Day at anytime	20 202 - 164 Day at anytime	21 203 - 163 Day at anytime
30	22 204 - 162 Day at anytime	23 205 - 161 Day at anytime	24 206 - 160 Day at anytime	25 207 - 159 01:19 - 00:23 40°	26 208 - 158 01:37 - 00:06 40°	27 209 - 157 01:49 - 23:54 39°	28 210 - 156 02:00 - 23:43 39°
31	29 211 - 155 Day at anytime	30 212 - 154 02:09 - 23:25 39°	31 213 - 153 02:17 - 23:17 38°				

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



August 2024

Tromsø
18.95°E, 69.65°N



Duration of the day, for August 21

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

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
31				1 214 - 152 02:25 - 23:10 38°	2 215 - 151 02:32 - 23:03 38°	3 216 - 150 02:39 - 22:56 38°	4 217 - 149 02:46 - 22:50 37°
32	5 218 - 148 02:52 - 22:43 37°	6 219 - 147 02:59 - 22:37 37°	7 220 - 146 03:04 - 22:31 37°	8 221 - 145 03:10 - 22:25 36°	9 222 - 144 03:16 - 22:19 36°	10 223 - 143 03:21 - 22:14 36°	11 224 - 142 03:27 - 22:08 35°
33	12 225 - 141 03:32 - 22:03 35°	13 226 - 140 03:37 - 21:57 35°	14 227 - 139 03:42 - 21:52 35°	15 228 - 138 03:47 - 21:46 34°	16 229 - 137 03:52 - 21:41 34°	17 230 - 136 03:57 - 21:36 34°	18 231 - 135 04:02 - 21:31 33°
34	19 232 - 134 04:06 - 21:26 33°	20 233 - 133 04:11 - 21:21 33°	21 234 - 132 04:16 - 21:16 32°	22 235 - 131 04:20 - 21:11 32°	23 236 - 130 04:25 - 21:06 32°	24 237 - 129 04:29 - 21:01 31°	25 238 - 128 04:34 - 20:56 31°
35	26 239 - 127 04:38 - 20:51 31°	27 240 - 126 04:42 - 20:46 30°	28 241 - 125 04:46 - 20:42 30°	29 242 - 124 04:51 - 20:37 29°	30 243 - 123 04:55 - 20:32 29°	31 244 - 122 04:59 - 20:27 29°	

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