

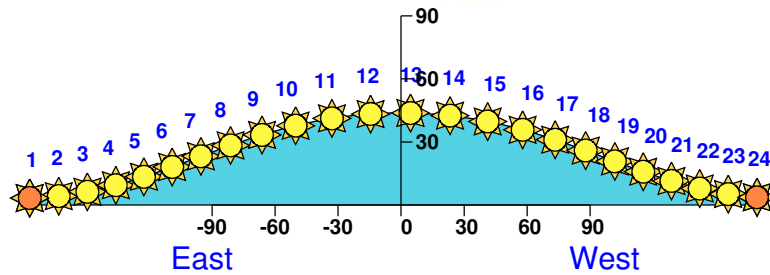
Sun Calendar 2018

Produced by *ScientiDev*
www.scientidev.fr

Tromso

18.955°E, 69.649°N

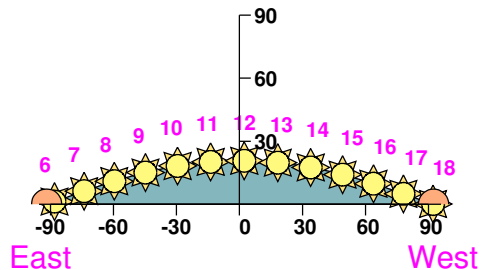
Summer



June 21

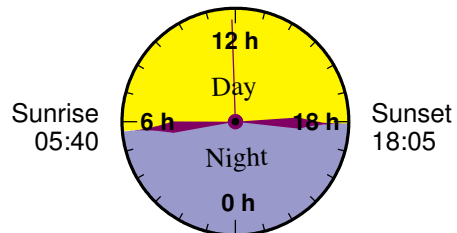


Spring



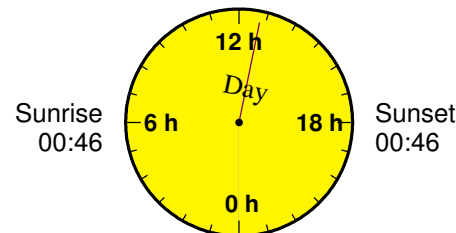
March 21

Day duration 12:26



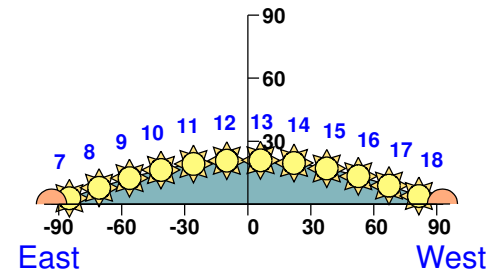
Spring Equinox

Day duration 24:00



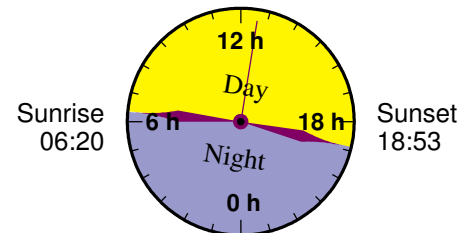
Summer Solstice

Autumn



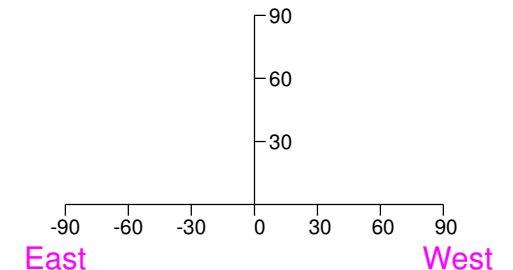
Sept. 21

Day duration 12:33



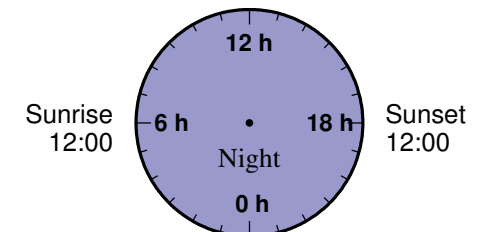
Autumn Equinox

Winter



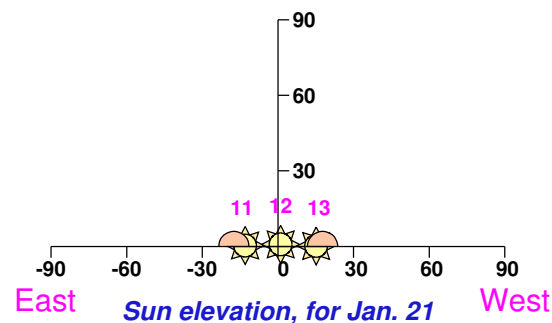
Dec. 21

Day duration 00:00

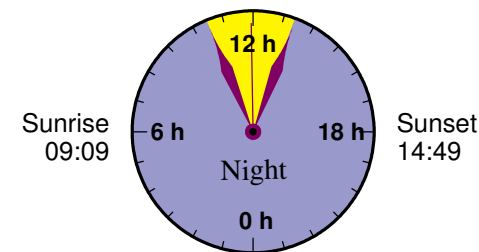


Winter Solstice

January 2018



Tromsø
18.955°E, 69.649°N

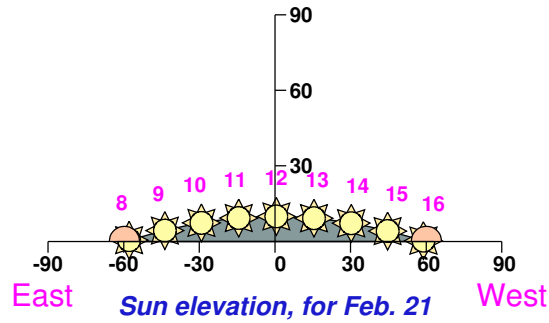


Duration of the day, for January 21

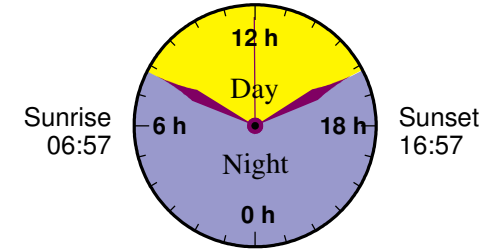
Sunrise and Sunset at Tromsø (TL $\pm$ 1 mn) and sun maximal elevation (°)

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1	1 1 - 364 Polar Night 	2 2 - 363 Polar Night 	3 3 - 362 Polar Night 	4 4 - 361 Polar Night 	5 5 - 360 Polar Night 	6 6 - 359 Polar Night 	7 7 - 358 Polar Night
2	8 8 - 357 Polar Night 	9 9 - 356 Polar Night 	10 10 - 355 Polar Night 	11 11 - 354 Polar Night 	12 12 - 353 Polar Night 	13 13 - 352 Polar Night 	14 14 - 351 Polar Night
3	15 15 - 350 11:31 - 12:18 0° 	16 16 - 349 11:14 - 12:35 0° 	17 17 - 348 11:03 - 12:47 0° 	18 18 - 347 10:53 - 12:57 0° 	19 19 - 346 10:44 - 13:07 1° 	20 20 - 345 10:37 - 13:15 1° 	21 21 - 344 10:29 - 13:23 1°
4	22 22 - 343 10:22 - 13:30 1° 	23 23 - 342 10:16 - 13:37 1° 	24 24 - 341 10:10 - 13:44 2° 	25 25 - 340 10:03 - 13:51 2° 	26 26 - 339 09:58 - 13:57 2° 	27 27 - 338 09:52 - 14:03 2° 	28 28 - 337 09:46 - 14:09 2°
5	29 29 - 336 09:41 - 14:15 3° 	30 30 - 335 09:35 - 14:21 3° 	31 31 - 334 09:30 - 14:27 3° 				

February 2018



Tromsø
18.955°E, 69.649°N



Duration of the day, for February 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

5

6

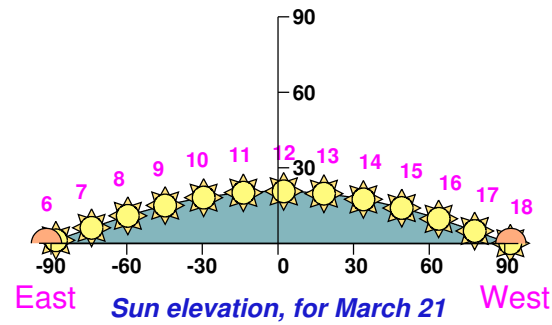
7

8

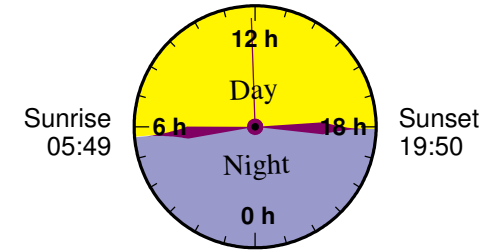
9

1 32 - 333 09:25 - 14:32 4°	2 33 - 332 09:19 - 14:38 4°	3 34 - 331 09:14 - 14:43 4°	4 35 - 330 09:09 - 14:49 4°
8 39 - 326 08:49 - 15:09 6°	9 40 - 325 08:44 - 15:14 6°	10 41 - 324 08:39 - 15:19 6°	11 42 - 323 08:35 - 15:24 7°
15 46 - 319 08:15 - 15:43 8°	16 47 - 318 08:11 - 15:48 8°	17 48 - 317 08:06 - 15:52 9°	18 49 - 316 08:01 - 15:57 9°
22 53 - 312 07:43 - 16:14 10°	23 54 - 311 07:38 - 16:19 11°	24 55 - 310 07:34 - 16:23 11°	25 56 - 309 07:29 - 16:27 11°

March 2018



Tromsø
18.955°E, 69.649°N



Duration of the day, for March 21

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

Time change March 25

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

9

1 60 - 305 07:11 - 16:44 13° 	2 61 - 304 07:06 - 16:49 13° 	3 62 - 303 07:02 - 16:53 14° 	4 63 - 302 06:57 - 16:57 14°
--	--	--	--

10

5 64 - 301 06:52 - 17:01 14° 	6 65 - 300 06:48 - 17:05 15° 	7 66 - 299 06:43 - 17:09 15° 	8 67 - 298 06:39 - 17:13 16° 	9 68 - 297 06:34 - 17:17 16° 	10 69 - 296 06:30 - 17:21 16° 	11 70 - 295 06:25 - 17:26 17°
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11

12 71 - 294 06:21 - 17:30 17° 	13 72 - 293 06:16 - 17:34 18° 	14 73 - 292 06:12 - 17:38 18° 	15 74 - 291 06:07 - 17:42 18° 	16 75 - 290 06:03 - 17:46 19° 	17 76 - 289 05:58 - 17:50 19° 	18 77 - 288 05:53 - 17:54 20°
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12

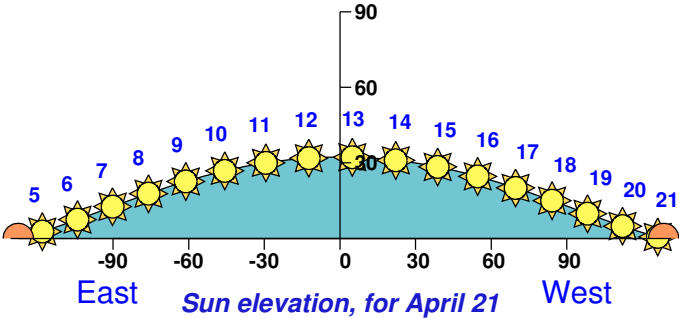
19 78 - 287 05:49 - 17:58 20° 	20 79 - 286 05:44 - 18:02 20° 	21 80 - 285 05:40 - 18:05 21° 	22 81 - 284 05:35 - 18:09 21° 	23 82 - 283 05:31 - 18:13 21° 	24 83 - 282 05:26 - 18:17 22° 	25 84 - 281 06:22 - 19:21 22°
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13

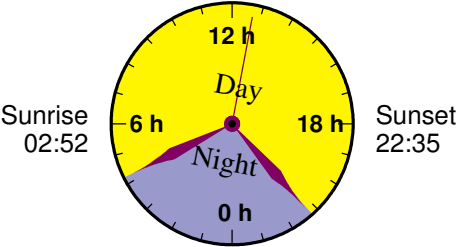
26 85 - 280 06:17 - 19:25 23° 	27 86 - 279 06:12 - 19:29 23° 	28 87 - 278 06:08 - 19:33 23° 	29 88 - 277 06:03 - 19:37 24° 	30 89 - 276 05:59 - 19:41 24° 	31 90 - 275 05:54 - 19:46 25°
---	---	---	---	---	---

April 2018

Tromso
18.955°E, 69.649°N



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



Duration of the day, for April 21

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

13

14

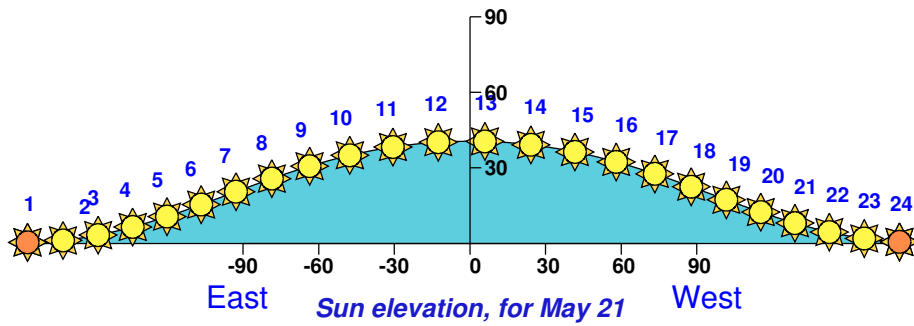
15

16

17

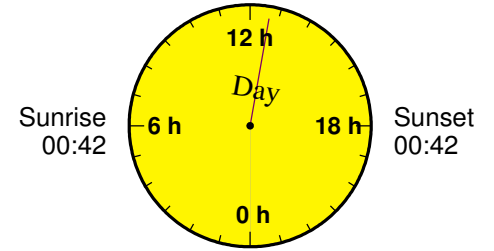
18

						1 91 - 274 05:49 - 19:50 25°
2 92 - 273 05:45 - 19:54 25° 	3 93 - 272 05:40 - 19:58 26° 	4 94 - 271 05:36 - 20:02 26° 	5 95 - 270 05:31 - 20:06 27° 	6 96 - 269 05:26 - 20:10 27° 	7 97 - 268 05:22 - 20:14 27° 	8 98 - 267 05:17 - 20:18 28°
9 99 - 266 05:12 - 20:23 28° 	10 100 - 265 05:07 - 20:27 28° 	11 101 - 264 05:03 - 20:31 29° 	12 102 - 263 04:58 - 20:35 29° 	13 103 - 262 04:53 - 20:40 29° 	14 104 - 261 04:48 - 20:44 30° 	15 105 - 260 04:43 - 20:48 30°
16 106 - 259 04:39 - 20:53 31° 	17 107 - 258 04:34 - 20:57 31° 	18 108 - 257 04:29 - 21:02 31° 	19 109 - 256 04:24 - 21:06 32° 	20 110 - 255 04:19 - 21:11 32° 	21 111 - 254 04:14 - 21:16 32° 	22 112 - 253 04:09 - 21:20 33°
23 113 - 252 04:04 - 21:25 33° 	24 114 - 251 03:59 - 21:30 33° 	25 115 - 250 03:54 - 21:35 34° 	26 116 - 249 03:48 - 21:40 34° 	27 117 - 248 03:43 - 21:45 34° 	28 118 - 247 03:38 - 21:50 35° 	29 119 - 246 03:32 - 21:55 35°
30 120 - 245 03:27 - 22:00 35° 						



May 2018

Tromsø
18.955°E, 69.649°N



Duration of the day, for May 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

18

1 121 - 244
03:21 - 22:06 36°

2 122 - 243
03:16 - 22:11 36°

3 123 - 242
03:10 - 22:17 36°

4 124 - 241
03:04 - 22:23 36°

5 125 - 240
02:58 - 22:29 37°

6 126 - 239
02:52 - 22:35 37°

19

7 127 - 238
02:46 - 22:41 37°

8 128 - 237
02:39 - 22:48 38°

9 129 - 236
02:33 - 22:55 38°

10 130 - 235
02:26 - 23:02 38°

11 131 - 234
02:19 - 23:10 38°

12 132 - 233
02:11 - 23:18 39°

13 133 - 232
01:54 - 23:27 39°

20

14 134 - 231
01:44 - 23:36 39°

15 135 - 230
01:33 - 23:48 39°

16 136 - 229
01:19 - 00:02 40°

17 137 - 228
00:55 - 00:26 40°

18 138 - 227
Day at anytime

19 139 - 226
Day at anytime

20 140 - 225
Day at anytime

21

21 141 - 224
Day at anytime

22 142 - 223
Day at anytime

23 143 - 222
Day at anytime

24 144 - 221
Day at anytime

25 145 - 220
Day at anytime

26 146 - 219
Day at anytime

27 147 - 218
Day at anytime

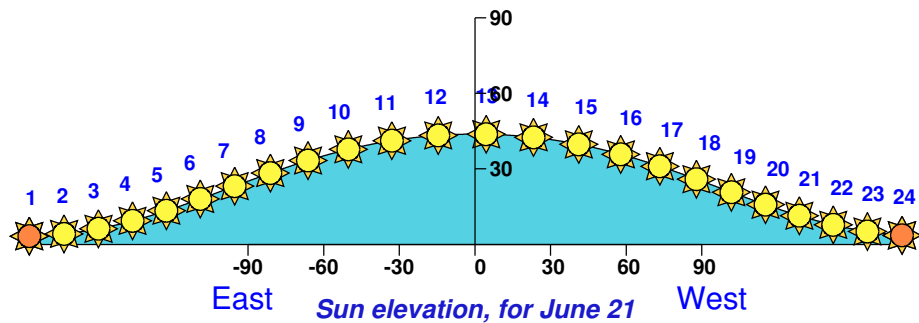
22

28 148 - 217
Day at anytime

29 149 - 216
Day at anytime

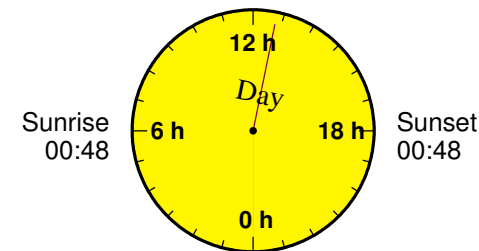
30 150 - 215
Day at anytime

31 151 - 214
Day at anytime



June 2018

Tromsø
18.955°E, 69.649°N



Duration of the day, for June 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

22

1 152 - 213 Day at anytime 	2 153 - 212 Day at anytime 	3 154 - 211 Day at anytime
--	--	--

23

4 155 - 210 Day at anytime 	5 156 - 209 Day at anytime 	6 157 - 208 Day at anytime 	7 158 - 207 Day at anytime 	8 159 - 206 Day at anytime 	9 160 - 205 Day at anytime 	10 161 - 204 Day at anytime
--	--	--	--	--	--	---

24

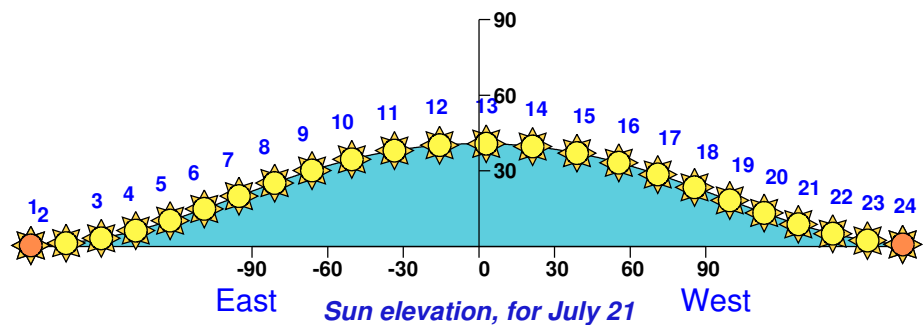
11 162 - 203 Day at anytime 	12 163 - 202 Day at anytime 	13 164 - 201 Day at anytime 	14 165 - 200 Day at anytime 	15 166 - 199 Day at anytime 	16 167 - 198 Day at anytime 	17 168 - 197 Day at anytime
---	---	---	---	---	---	---

25

18 169 - 196 Day at anytime 	19 170 - 195 Day at anytime 	20 171 - 194 Day at anytime 	21 172 - 193 Day at anytime 	22 173 - 192 Day at anytime 	23 174 - 191 Day at anytime 	24 175 - 190 Day at anytime
---	---	---	---	---	---	---

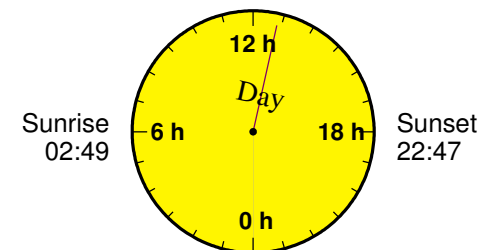
26

25 176 - 189 Day at anytime 	26 177 - 188 Day at anytime 	27 178 - 187 Day at anytime 	28 179 - 186 Day at anytime 	29 180 - 185 Day at anytime 	30 181 - 184 Day at anytime
---	---	---	---	---	---



July 2018

Tromsø
18.955°E, 69.649°N



Duration of the day, for July 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

26

27

28

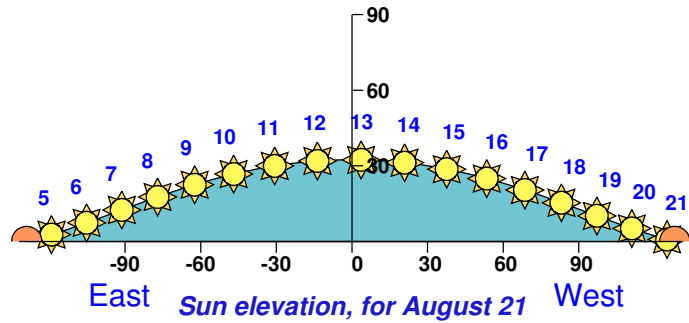
29

30

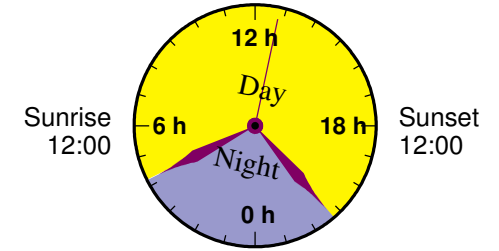
31

						1 182 - 183 Day at anytime
2 183 - 182 Day at anytime 	3 184 - 181 Day at anytime 	4 185 - 180 Day at anytime 	5 186 - 179 Day at anytime 	6 187 - 178 Day at anytime 	7 188 - 177 Day at anytime 	8 189 - 176 Day at anytime
9 190 - 175 Day at anytime 	10 191 - 174 Day at anytime 	11 192 - 173 Day at anytime 	12 193 - 172 Day at anytime 	13 194 - 171 Day at anytime 	14 195 - 170 Day at anytime 	15 196 - 169 Day at anytime
16 197 - 168 Day at anytime 	17 198 - 167 Day at anytime 	18 199 - 166 Day at anytime 	19 200 - 165 Day at anytime 	20 201 - 164 Day at anytime 	21 202 - 163 Day at anytime 	22 203 - 162 Day at anytime
23 204 - 161 Day at anytime 	24 205 - 160 Day at anytime 	25 206 - 159 01:02 - 00:41 40° 	26 207 - 158 01:28 - 00:15 40° 	27 208 - 157 01:43 - 00:00 40° 	28 209 - 156 01:54 - 23:49 39° 	29 210 - 155 02:00 - 23:39 39°
30 211 - 154 02:04 - 23:30 39° 	31 212 - 153 02:13 - 23:22 39° 					

August 2018



Tromsø
18.955°E, 69.649°N



Duration of the day, for August 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

31

32

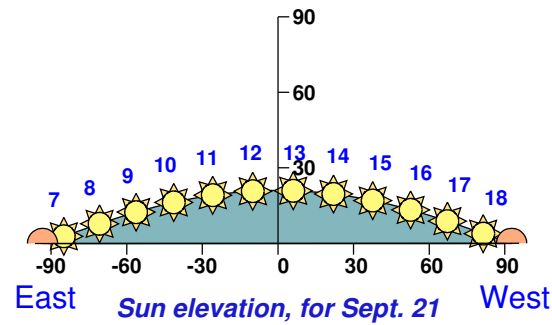
33

34

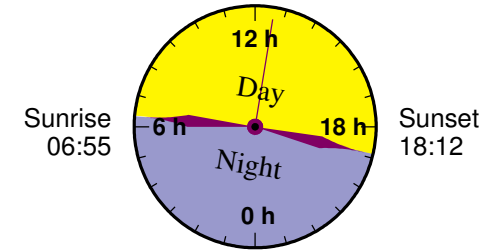
35

		1 213 - 152 02:21 - 23:14 38° 	2 214 - 151 02:28 - 23:07 38° 	3 215 - 150 02:36 - 23:00 38° 	4 216 - 149 02:42 - 22:53 38° 	5 217 - 148 02:49 - 22:47 37°
	6 218 - 147 02:55 - 22:40 37° 	7 219 - 146 03:01 - 22:34 37° 	8 220 - 145 03:07 - 22:28 36° 	9 221 - 144 03:13 - 22:22 36° 	10 222 - 143 03:18 - 22:17 36° 	11 223 - 142 03:24 - 22:11 36°
	13 225 - 140 03:34 - 22:00 35° 	14 226 - 139 03:39 - 21:55 35° 	15 227 - 138 03:45 - 21:49 34° 	16 228 - 137 03:49 - 21:44 34° 	17 229 - 136 03:54 - 21:39 34° 	18 230 - 135 03:59 - 21:34 33°
	20 232 - 133 04:09 - 21:23 33° 	21 233 - 132 04:13 - 21:18 32° 	22 234 - 131 04:18 - 21:13 32° 	23 235 - 130 04:22 - 21:09 32° 	24 236 - 129 04:27 - 21:04 31° 	25 237 - 128 04:31 - 20:59 31°
	27 239 - 126 04:40 - 20:49 30° 	28 240 - 125 04:44 - 20:44 30° 	29 241 - 124 04:48 - 20:39 30° 	30 242 - 123 04:53 - 20:35 29° 	31 243 - 122 04:57 - 20:30 29° 	

September 2018



Tromsø
18.955°E, 69.649°N



Duration of the day, for September 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

35

36

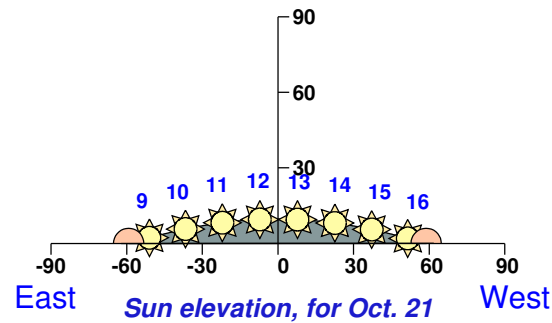
37

38

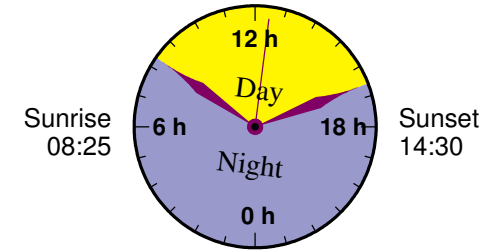
39

1 244 - 121 05:01 - 20:25 29° 	2 245 - 120 Polar Night
3 246 - 119 05:09 - 20:16 28° 	4 247 - 118 05:13 - 20:11 27°
5 248 - 117 05:17 - 20:06 27° 	6 249 - 116 05:21 - 20:02 27°
7 250 - 115 05:25 - 19:57 26° 	8 251 - 114 05:29 - 19:52 26°
9 252 - 113 05:33 - 19:48 26° 	10 253 - 112 05:37 - 19:43 25°
11 254 - 111 05:41 - 19:38 25° 	12 255 - 110 05:45 - 19:34 24°
13 256 - 109 05:49 - 19:29 24° 	14 257 - 108 05:53 - 19:25 24°
15 258 - 107 05:57 - 19:20 23° 	16 259 - 106 06:01 - 19:15 23°
17 260 - 105 06:05 - 19:11 23° 	18 261 - 104 06:08 - 19:06 22°
19 262 - 103 06:12 - 19:02 22° 	20 263 - 102 06:16 - 18:57 21°
21 264 - 101 06:20 - 18:53 21° 	22 265 - 100 06:24 - 18:48 21°
23 266 - 99 06:28 - 18:44 20° 	24 267 - 98 06:32 - 18:39 20°
25 268 - 97 06:35 - 18:35 19° 	26 269 - 96 06:39 - 18:30 19°
27 270 - 95 06:43 - 18:26 19° 	28 271 - 94 06:47 - 18:21 18°
29 272 - 93 06:51 - 18:16 18° 	30 273 - 92 06:55 - 18:12 18°

October 2018



Tromsø
18.955°E, 69.649°N

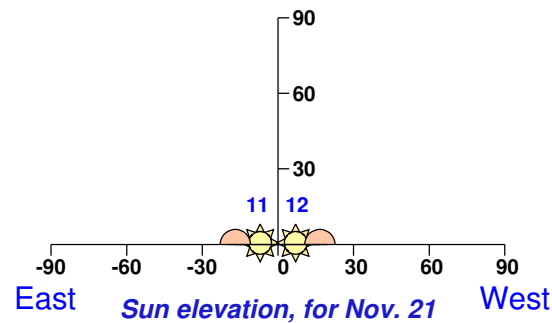


Duration of the day, for October 21

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

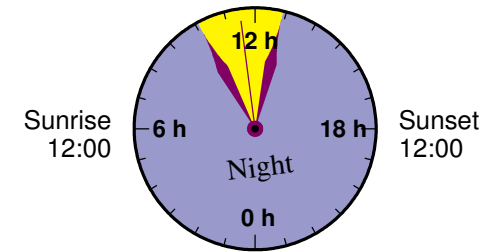
Time change October 28

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
40	1 274 - 91 06:59 - 18:07 17° 	2 275 - 90 07:03 - 18:03 17° 	3 276 - 89 07:07 - 17:58 16° 	4 277 - 88 07:10 - 17:54 16° 	5 278 - 87 07:14 - 17:49 16° 	6 279 - 86 07:18 - 17:45 15° 	7 280 - 85 07:22 - 17:40 15°
41	8 281 - 84 07:26 - 17:36 14° 	9 282 - 83 07:30 - 17:31 14° 	10 283 - 82 07:34 - 17:27 14° 	11 284 - 81 07:38 - 17:22 13° 	12 285 - 80 07:42 - 17:18 13° 	13 286 - 79 07:47 - 17:13 13° 	14 287 - 78 07:51 - 17:08 12°
42	15 288 - 77 07:55 - 17:04 12° 	16 289 - 76 07:59 - 16:59 11° 	17 290 - 75 08:03 - 16:55 11° 	18 291 - 74 08:07 - 16:50 11° 	19 292 - 73 08:12 - 16:45 10° 	20 293 - 72 08:16 - 16:41 10° 	21 294 - 71 08:20 - 16:36 10°
43	22 295 - 70 08:25 - 16:32 9° 	23 296 - 69 08:29 - 16:27 9° 	24 297 - 68 08:33 - 16:22 9° 	25 298 - 67 08:38 - 16:18 8° 	26 299 - 66 08:42 - 16:13 8° 	27 300 - 65 08:47 - 16:08 8° 	28 301 - 64 07:52 - 15:03 7°
44	29 302 - 63 07:56 - 14:59 7° 	30 303 - 62 08:01 - 14:54 7° 	31 304 - 61 08:06 - 14:49 6° 				



November 2018

Tromsø
18.955°E, 69.649°N



Duration of the day, for November 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

44

1 305 - 60 08:10 - 14:44 6°	2 306 - 59 08:15 - 14:39 6°	3 307 - 58 08:20 - 14:34 5°	4 308 - 57 08:25 - 14:30 5°

45

5 309 - 56 08:30 - 14:25 5°	6 310 - 55 08:35 - 14:20 5°	7 311 - 54 08:40 - 14:14 4°	8 312 - 53 08:46 - 14:09 4°	9 313 - 52 08:51 - 14:04 4°	10 314 - 51 08:56 - 13:59 3°	11 315 - 50 09:02 - 13:54 3°

46

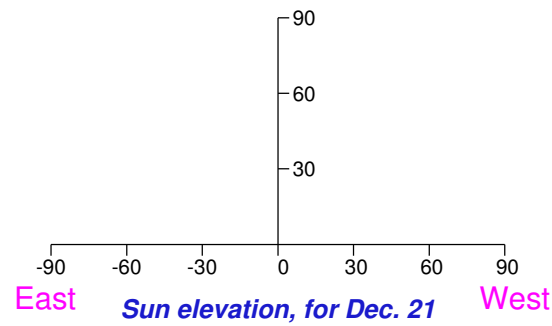
12 316 - 49 09:08 - 13:48 3°	13 317 - 48 09:13 - 13:43 3°	14 318 - 47 09:19 - 13:37 2°	15 319 - 46 09:25 - 13:32 2°	16 320 - 45 09:31 - 13:26 2°	17 321 - 44 09:38 - 13:20 2°	18 322 - 43 09:44 - 13:14 1°

47

19 323 - 42 09:51 - 13:07 1°	20 324 - 41 09:58 - 13:01 1°	21 325 - 40 10:06 - 12:54 1°	22 326 - 39 10:14 - 12:46 1°	23 327 - 38 10:22 - 12:38 1°	24 328 - 37 10:32 - 12:29 0°	25 329 - 36 10:43 - 12:19 0°

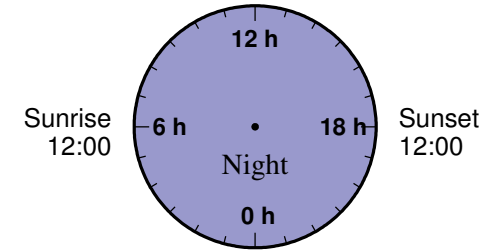
48

26 330 - 35 10:56 - 12:06 0°	27 331 - 34 11:18 - 11:45 0°	28 332 - 33 Polar Night	29 333 - 32 Polar Night	30 334 - 31 Polar Night



December 2018

Tromsø
18.955°E, 69.649°N



Duration of the day, for December 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

48

49

50

51

52

53

1 335 - 30 Polar Night 	2 336 - 29 Polar Night
8 342 - 23 Polar Night 	9 343 - 22 Polar Night
15 349 - 16 Polar Night 	16 350 - 15 Polar Night
22 356 - 9 Polar Night 	23 357 - 8 Polar Night
29 363 - 2 Polar Night 	30 364 - 1 Polar Night

3 337 - 28 Polar Night

4 338 - 27 Polar Night

5 339 - 26 Polar Night

6 340 - 25 Polar Night

7 341 - 24 Polar Night

10 344 - 21 Polar Night
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11 345 - 20 Polar Night
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12 346 - 19 Polar Night
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13 347 - 18 Polar Night
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14 348 - 17 Polar Night
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17 351 - 14 Polar Night
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18 352 - 13 Polar Night
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19 353 - 12 Polar Night
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20 354 - 11 Polar Night
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21 355 - 10 Polar Night
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24 358 - 7 Polar Night

25 359 - 6 Polar Night

26 360 - 5 Polar Night

27 361 - 4 Polar Night

28 362 - 3 Polar Night

31 365 - 0 Polar Night
