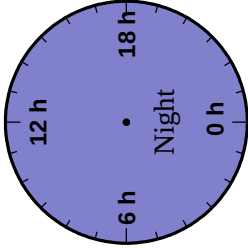
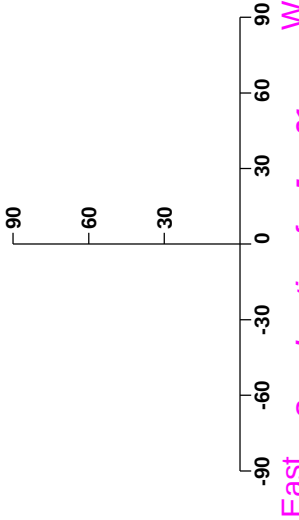


January 2013

Ny-Alesund
11.92°E, 78.92°N



East Sun elevation, for Jan. 21 **West**

Duration of the day, for January 21

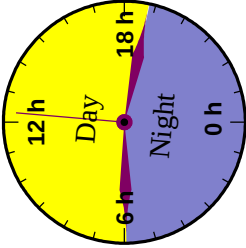
Sunrise and Sunset at Ny-Alesund (TL ± 1 mn) Duration of the day - Variation - Sun maximal elevation (°)

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1	7 7 - 358 Polar Night	1 1 - 365 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
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	
3	14 14 - 351 Polar Night	15 15 - 350 Polar Night	16 16 - 349 Polar Night	17 17 - 348 Polar Night	18 18 - 347 Polar Night	19 19 - 346 Polar Night	20 20 - 345 Polar Night
4	21 21 - 344 Polar Night	22 22 - 343 Polar Night	23 23 - 342 Polar Night	24 24 - 341 Polar Night	25 25 - 340 Polar Night	26 26 - 339 Polar Night	27 27 - 338 Polar Night
5	28 28 - 337 Polar Night	29 29 - 336 Polar Night	30 30 - 335 Polar Night	31 31 - 334 Polar Night			

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
5 4 35 - 330 Polar Night	5 36 - 329 Polar Night	6 37 - 328 Polar Night	7 38 - 327 Polar Night	1 32 - 333 Polar Night	2 33 - 332 Polar Night	3 34 - 331 Polar Night
6	5 36 - 329 Polar Night	6 37 - 328 Polar Night	7 38 - 327 Polar Night	8 39 - 326 Polar Night	9 40 - 325 Polar Night	10 41 - 324 Polar Night
7	11 42 - 323 Polar Night	12 43 - 322 Polar Night	13 44 - 321 Polar Night	14 45 - 320 Polar Night	15 46 - 319 Polar Night	16 47 - 318 Polar Night
8	18 49 - 316 11:23 - 13:33 2:10 +75 m. 0°	19 50 - 315 10:59 - 13:56 2:56 +46 m. 1°	20 51 - 314 10:41 - 14:14 3:33 +37 m. 1°	21 52 - 313 10:25 - 14:30 4:04 +31 m. 1°	22 53 - 312 10:11 - 14:44 4:33 +29 m. 1°	23 54 - 311 09:57 - 14:57 4:59 +26 m. 2°
9	25 56 - 309 09:33 - 15:21 5:47 +23 m. 2°	26 57 - 308 09:22 - 15:32 6:09 +22 m. 3°	27 58 - 307 09:11 - 15:42 6:31 +22 m. 3°	28 59 - 306 09:01 - 15:52 6:51 +20 m. 3°	29 60 - 305 08:50 - 16:02 7:13 +18 m. 3°	30 61 - 304 08:40 - 16:14 7:36 +16 m. 3°

March 2013

Ny-Alesund
11.92°E, 78.92°N



East Sun elevation, for March 21

Duration of the day, for March 21

Sunrise and Sunset at Ny-Alesund (TL ± 1 mn)

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

9

10

11

12

13

4	63 - 302 08:22 - 16:29	8:07	+18 m.	5°
11	70 - 295 07:20 - 17:28	10:08	+17 m.	8°

5	64 - 301 08:13 - 16:38	8:25	+18 m.	5°
12	71 - 294 07:12 - 17:36	10:25	+17 m.	8°

6	65 - 300 08:04 - 16:47	8:43	+18 m.	6°
13	72 - 293 07:03 - 17:44	10:41	+16 m.	8°

7	66 - 299 07:55 - 16:55	9:00	+17 m.	6°
14	73 - 292 06:55 - 17:52	10:58	+17 m.	9°

8	67 - 298 07:46 - 17:04	9:18	+18 m.	6°
15	74 - 291 06:46 - 18:00	11:14	+16 m.	9°

9	68 - 297 07:37 - 17:12	9:34	+16 m.	7°
16	75 - 290 06:38 - 18:08	11:30	+16 m.	10°

10	69 - 296 07:29 - 17:20	9:51	+17 m.	7°
17	76 - 289 06:30 - 18:16	11:46	+16 m.	10°

18	77 - 288 06:21 - 18:24	12:03	+17 m.	10°
25	84 - 281 05:23 - 19:19	13:57	+17 m.	13°

19	78 - 287 06:13 - 18:32	12:19	+16 m.	11°
26	85 - 280 05:14 - 19:27	14:13	+16 m.	14°

20	79 - 286 06:05 - 18:39	12:35	+16 m.	11°
27	86 - 279 05:05 - 19:35	14:30	+17 m.	14°

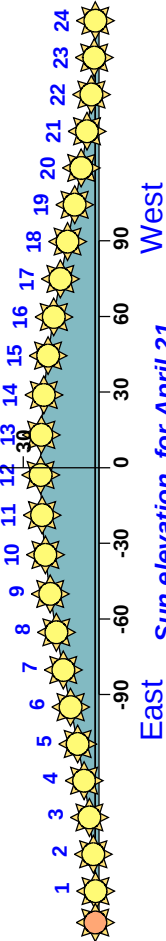
21	80 - 285 05:56 - 18:47	12:51	+16 m.	12°
28	87 - 278 04:57 - 19:44	14:47	+17 m.	14°

22	81 - 284 05:48 - 18:55	13:07	+16 m.	12°
29	88 - 277 04:48 - 19:52	15:04	+17 m.	15°

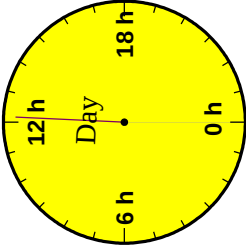
23	82 - 283 05:40 - 19:03	13:24	+17 m.	12°
30	89 - 276 04:39 - 20:01	15:22	+18 m.	15°

24	83 - 282 05:31 - 19:11	13:40	+16 m.	13°
31	90 - 275 04:30 - 20:09	15:40	+18 m.	15°

April 2013



Ny-Alesund
11.92°E, 78.92°N



East Sun elevation, for April 21

West

Duration of the day, for April 21

Sunrise and Sunset at Ny-Alesund (TL ± 1 mn)

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

1	91 - 274 04:21 - 20:18	15:58	+18 m.	16°
14				

8	98 - 267 03:09 - 21:28	18:19	+22 m.	18°
15				

15	105 - 260 00:50 - 23:32	22:42	+85 m.	21°
16				

22	112 - 253 Day at anytime	24:00	+0 m.	23°
17				

29	119 - 246 Day at anytime	24:00	+0 m.	26°
18				

2	92 - 273 04:11 - 20:27	16:16	+18 m.	16°
9				

9	99 - 266 02:58 - 21:40	18:42	+23 m.	19°
16				

16	106 - 259 Day at anytime	24:00	+78 m.	21°
23				

23	113 - 252 Day at anytime	24:00	+0 m.	24°
30				

30	120 - 245 Day at anytime	24:00	+0 m.	26°

3	93 - 272 04:02 - 20:37	16:35	+19 m.	17°
10				

10	100 - 265 02:45 - 21:53	19:08	+26 m.	19°
17				

17	107 - 258 Day at anytime	24:00	+0 m.	22°
24				

24	114 - 251 Day at anytime	24:00	+0 m.	24°

24	114 - 251 Day at anytime	24:00	+0 m.	24°

4	94 - 271 03:52 - 20:46	16:54	+19 m.	17°
11				

11	101 - 264 02:32 - 22:06	19:35	+27 m.	20°
18				

18	108 - 257 Day at anytime	24:00	+0 m.	22°
25				

25	115 - 250 Day at anytime	24:00	+0 m.	24°

25	115 - 250 Day at anytime	24:00	+0 m.	24°

5	95 - 270 03:42 - 20:56	17:14	+20 m.	17°
12				

12	102 - 263 02:18 - 22:22	20:04	+29 m.	20°
19				

19	109 - 256 Day at anytime	24:00	+0 m.	22°
26				

26	116 - 249 Day at anytime	24:00	+0 m.	25°

26	116 - 249 Day at anytime	24:00	+0 m.	25°

6	96 - 269 03:31 - 21:06	17:35	+21 m.	18°
13				

13	103 - 262 02:02 - 22:39	20:37	+33 m.	20°
20				

20	110 - 255 Day at anytime	24:00	+0 m.	23°
27				

27	117 - 248 Day at anytime	24:00	+0 m.	25°

27	117 - 248 Day at anytime	24:00	+0 m.	25°

7	97 - 268 03:20 - 21:17	17:57	+22 m.	18°
14				

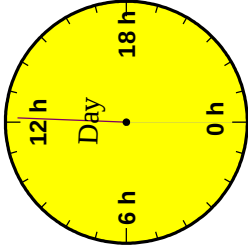
14	104 - 261 01:44 - 23:01	21:17	+40 m.	21°
21				

21	111 - 254 Day at anytime	24:00	+0 m.	23°
28				

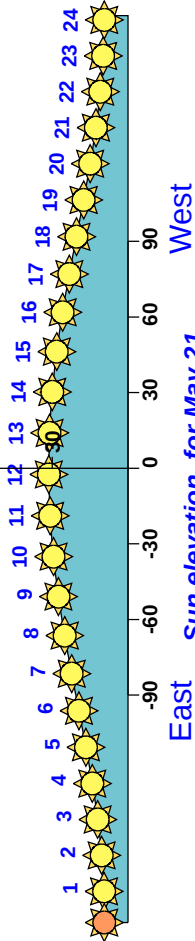
28	118 - 247 Day at anytime	24:00	+0 m.	25°

28	118 - 247 Day at anytime	24:00	+0 m.	25°

May 2013



Ny-Alesund
11.92°E, 78.92°N



East Sun elevation, for May 21

West

Duration of the day, for May 21

Sunrise and Sunset at Ny-Alesund (TL ± 1 mn)

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

18

6	126 - 239 Day at anytime	24:00	+0 m.	28°
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19

13	133 - 232 Day at anytime	24:00	+0 m.	30°
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20

20	140 - 225 Day at anytime	24:00	+0 m.	31°
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21

27	147 - 218 Day at anytime	24:00	+0 m.	32°
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22

28	148 - 217 Day at anytime	24:00	+0 m.	33°
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1	121 - 244 Day at anytime	24:00	+0 m.	26°
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8	128 - 237 Day at anytime	24:00	+0 m.	28°
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15	135 - 230 Day at anytime	24:00	+0 m.	30°
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22	142 - 223 Day at anytime	24:00	+0 m.	32°
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29	149 - 216 Day at anytime	24:00	+0 m.	33°
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2	122 - 243 Day at anytime	24:00	+0 m.	27°
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9	129 - 236 Day at anytime	24:00	+0 m.	29°
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16	136 - 229 Day at anytime	24:00	+0 m.	30°
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23	143 - 222 Day at anytime	24:00	+0 m.	32°
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30	150 - 215 Day at anytime	24:00	+0 m.	33°
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3	123 - 242 Day at anytime	24:00	+0 m.	27°
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10	130 - 235 Day at anytime	24:00	+0 m.	29°
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17	137 - 228 Day at anytime	24:00	+0 m.	31°
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24	144 - 221 Day at anytime	24:00	+0 m.	32°
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31	151 - 214 Day at anytime	24:00	+0 m.	33°
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4	124 - 241 Day at anytime	24:00	+0 m.	27°
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11	131 - 234 Day at anytime	24:00	+0 m.	29°
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18	138 - 227 Day at anytime	24:00	+0 m.	31°
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25	145 - 220 Day at anytime	24:00	+0 m.	32°
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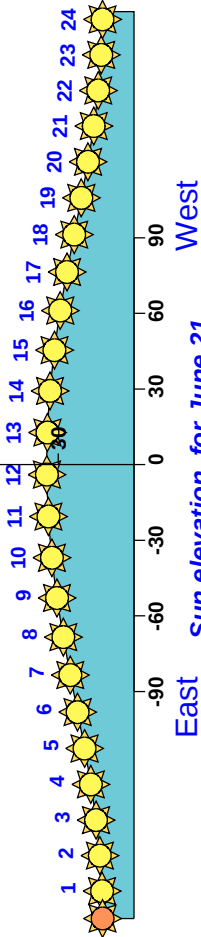
5	125 - 240 Day at anytime	24:00	+0 m.	27°
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12	132 - 233 Day at anytime	24:00	+0 m.	29°
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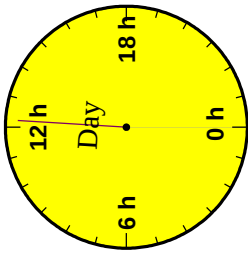
19	139 - 226 Day at anytime	24:00	+0 m.	31°
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26	146 - 219 Day at anytime	24:00	+0 m.	32°
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June 2013



Ny-Alesund
11.92°E, 78.92°N



Duration of the day, for June 21

Sunrise and Sunset at Ny-Alesund (TL ± 1 mn)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

22

23

24

25

26

3	154 - 211 Day at anytime	24:00	+0 m.	33°
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4	155 - 210 Day at anytime	24:00	+0 m.	34°
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5	156 - 209 Day at anytime	24:00	+0 m.	34°
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6	157 - 208 Day at anytime	24:00	+0 m.	34°
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7	158 - 207 Day at anytime	24:00	+0 m.	34°
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8	159 - 206 Day at anytime	24:00	+0 m.	34°
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9	160 - 205 Day at anytime	24:00	+0 m.	34°
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10	161 - 204 Day at anytime	24:00	+0 m.	34°
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11	162 - 203 Day at anytime	24:00	+0 m.	34°
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12	163 - 202 Day at anytime	24:00	+0 m.	34°
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13	164 - 201 Day at anytime	24:00	+0 m.	34°
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14	165 - 200 Day at anytime	24:00	+0 m.	34°
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15	166 - 199 Day at anytime	24:00	+0 m.	34°
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16	167 - 198 Day at anytime	24:00	+0 m.	34°
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17	168 - 197 Day at anytime	24:00	+0 m.	34°
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18	169 - 196 Day at anytime	24:00	+0 m.	35°
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19	170 - 195 Day at anytime	24:00	+0 m.	35°
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20	171 - 194 Day at anytime	24:00	+0 m.	35°
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21	172 - 193 Day at anytime	24:00	+0 m.	35°
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22	173 - 192 Day at anytime	24:00	+0 m.	35°
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23	174 - 191 Day at anytime	24:00	+0 m.	35°
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24	175 - 190 Day at anytime	24:00	+0 m.	35°
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25	176 - 189 Day at anytime	24:00	+0 m.	34°
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26	177 - 188 Day at anytime	24:00	+0 m.	34°
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27	178 - 187 Day at anytime	24:00	+0 m.	34°
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28	179 - 186 Day at anytime	24:00	+0 m.	34°
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29	180 - 185 Day at anytime	24:00	+0 m.	34°
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30	181 - 184 Day at anytime	24:00	+0 m.	34°
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Figure 1 is a graph showing the sun elevation for July 21st. The x-axis represents longitude from -90 to 90, with labels 'East' and 'West'. The y-axis represents sun elevation from 0 to 90 degrees. The graph shows a curve of sun elevation values for 24 locations, numbered 1 to 24. The elevation is highest at the poles (90 degrees) and lowest at the equator (0 degrees).

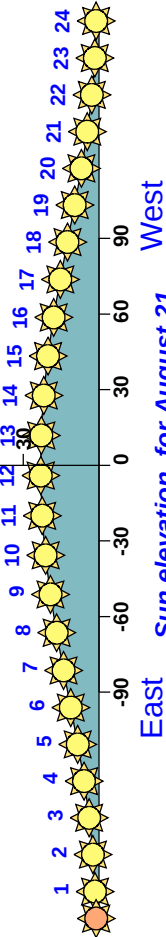


East
Sun elevation, for July 21

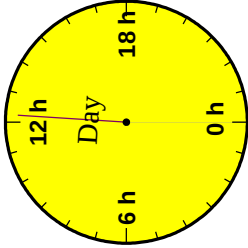
Duration of the day - Variation - Sun maximal elevation (°)

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1 182 - 183 Day at anytime 24:00 +0 m. 34°	2 183 - 182 Day at anytime 24:00 +0 m. 34°	3 184 - 181 Day at anytime 24:00 +0 m. 34°	4 185 - 180 Day at anytime 24:00 +0 m. 34°	5 186 - 179 Day at anytime 24:00 +0 m. 34°	6 187 - 178 Day at anytime 24:00 +0 m. 34°	7 188 - 177 Day at anytime 24:00 +0 m. 34°
8 189 - 176 Day at anytime 24:00 +0 m. 34°	9 190 - 175 Day at anytime 24:00 +0 m. 33°	10 191 - 174 Day at anytime 24:00 +0 m. 33°	11 192 - 173 Day at anytime 24:00 +0 m. 33°	12 193 - 172 Day at anytime 24:00 +0 m. 33°	13 194 - 171 Day at anytime 24:00 +0 m. 33°	14 195 - 170 Day at anytime 24:00 +0 m. 33°
15 196 - 169 Day at anytime 24:00 +0 m. 33°	16 197 - 168 Day at anytime 24:00 +0 m. 32°	17 198 - 167 Day at anytime 24:00 +0 m. 32°	18 199 - 166 Day at anytime 24:00 +0 m. 32°	19 200 - 165 Day at anytime 24:00 +0 m. 32°	20 201 - 164 Day at anytime 24:00 +0 m. 32°	21 202 - 163 Day at anytime 24:00 +0 m. 31°
22 203 - 162 Day at anytime 24:00 +0 m. 31°	23 204 - 161 Day at anytime 24:00 +0 m. 31°	24 205 - 160 Day at anytime 24:00 +0 m. 31°	25 206 - 159 Day at anytime 24:00 +0 m. 31°	26 207 - 158 Day at anytime 24:00 +0 m. 30°	27 208 - 157 Day at anytime 24:00 +0 m. 30°	28 209 - 156 Day at anytime 24:00 +0 m. 30°
29 210 - 155 Day at anytime 24:00 +0 m. 30°	30 211 - 154 Day at anytime 24:00 +0 m. 30°	31 212 - 153 Day at anytime 24:00 +0 m. 29°				

August 2013



Ny-Alesund
11.92°E, 78.92°N



East Sun elevation, for August 21

West

Duration of the day, for August 21

Sunrise and Sunset at Ny-Alesund (TL ± 1 mn)

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

31

32

33

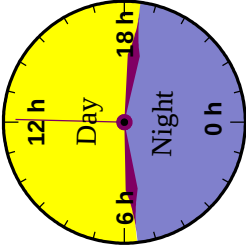
34

35

5 217 - 148 Day at anytime 24:00 +0 m. 28°	6 218 - 147 Day at anytime 24:00 +0 m. 28°	7 219 - 146 Day at anytime 24:00 +0 m. 27°	1 213 - 152 Day at anytime 24:00 +0 m. 29°	2 214 - 151 Day at anytime 24:00 +0 m. 29°	3 215 - 150 Day at anytime 24:00 +0 m. 29°	4 216 - 149 Day at anytime 24:00 +0 m. 28°
12 224 - 141 Day at anytime 24:00 +0 m. 26°	13 225 - 140 Day at anytime 24:00 +0 m. 26°	14 226 - 139 Day at anytime 24:00 +0 m. 25°	8 220 - 145 Day at anytime 24:00 +0 m. 27°	9 221 - 144 Day at anytime 24:00 +0 m. 27°	10 222 - 143 Day at anytime 24:00 +0 m. 27°	11 223 - 142 Day at anytime 24:00 +0 m. 26°
19 231 - 134 Day at anytime 24:00 +0 m. 24°	20 232 - 133 Day at anytime 24:00 +0 m. 23°	21 233 - 132 Day at anytime 24:00 +0 m. 23°	15 227 - 138 Day at anytime 24:00 +0 m. 25°	16 228 - 137 Day at anytime 24:00 +0 m. 25°	17 229 - 136 Day at anytime 24:00 +0 m. 24°	18 230 - 135 Day at anytime 24:00 +0 m. 24°
26 238 - 127 00:54 - 23:36 22:42 -78 m. 21°	27 239 - 126 01:00 - 23:05 22:04 -38 m. 21°	28 240 - 125 01:25 - 22:43 21:18 -46 m. 21°	22 234 - 131 Day at anytime 24:00 +0 m. 23°	23 235 - 130 Day at anytime 24:00 +0 m. 22°	24 236 - 129 Day at anytime 24:00 +0 m. 22°	25 237 - 128 Day at anytime 24:00 +0 m. 22°

September 2013

Ny-Alesund
11.92°E, 78.92°N



East Sun elevation, for Sept. 21 West

Duration of the day, for September 21

Sunrise and Sunset at Ny-Alesund (TL ± 1 mn)

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

35

2	245 - 120 02:45 - 21:30	19°
18:45	-25 m.	19°

36

9	252 - 113 03:57 - 20:16	16°
16:20	-19 m.	16°

37

16	259 - 106 04:56 - 19:14	14°
14:18	-17 m.	14°

38

23	266 - 99 05:50 - 18:15	11°
12:25	-16 m.	11°

39

30	273 - 92 06:44 - 17:17	8°
10:33	-16 m.	8°

3	246 - 119 02:57 - 21:18	19°
18:21	-24 m.	19°

10	253 - 112 04:06 - 20:07	16°
16:01	-19 m.	16°

17	260 - 105 05:04 - 19:05	13°
14:02	-16 m.	13°

24	267 - 98 05:58 - 18:07	11°
12:09	-16 m.	11°

4	247 - 118 03:08 - 21:07	18°
17:59	-22 m.	18°

11	254 - 111 04:14 - 19:58	16°
15:44	-17 m.	16°

18	261 - 104 05:12 - 18:57	13°
13:45	-17 m.	13°

25	268 - 97 06:06 - 17:59	10°
11:53	-16 m.	10°

5	248 - 117 03:18 - 20:56	18°
17:38	-21 m.	18°

12	255 - 110 04:23 - 19:49	15°
15:26	-18 m.	15°

19	262 - 103 05:19 - 18:49	12°
13:29	-16 m.	12°

26	269 - 96 06:13 - 17:50	10°
11:37	-16 m.	10°

6	249 - 116 03:29 - 20:46	17°
17:17	-21 m.	17°

13	256 - 109 04:31 - 19:40	15°
15:09	-17 m.	15°

20	263 - 102 05:27 - 18:40	12°
13:13	-16 m.	12°

27	270 - 95 06:21 - 17:42	9°
11:21	-16 m.	9°

7	250 - 115 03:38 - 20:36	17°
16:58	-19 m.	17°

14	257 - 108 04:40 - 19:31	14°
14:52	-17 m.	14°

21	264 - 101 05:35 - 18:32	12°
12:57	-16 m.	12°

28	271 - 94 06:29 - 17:34	9°
11:05	-16 m.	9°

8	251 - 114 03:48 - 20:26	17°
16:39	-19 m.	17°

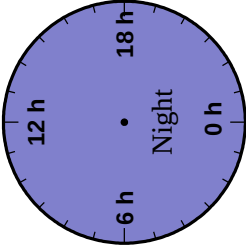
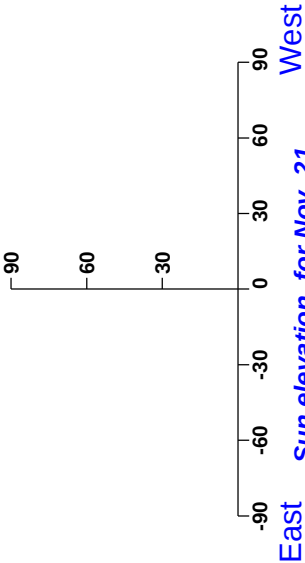
15	258 - 107 04:48 - 19:22	14°
14:35	-17 m.	14°

22	265 - 100 05:43 - 18:24	11°
12:41	-16 m.	11°

29	272 - 93 06:36 - 17:26	9°
10:49	-16 m.	9°

November 2013

Ny-Alesund
11.92°E, 78.92°N



Duration of the day, for November 21

Sunrise and Sunset at Ny-Alesund (TL ± 1 mn)

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

44

4
308 - 57
Polar Night

5
309 - 56
Polar Night

6
310 - 55
Polar Night

7
311 - 54
Polar Night

8
312 - 53
Polar Night

9
313 - 52
Polar Night

10
314 - 51
Polar Night

11
315 - 50
Polar Night

12
316 - 49
Polar Night

13
317 - 48
Polar Night

14
318 - 47
Polar Night

15
319 - 46
Polar Night

16
320 - 45
Polar Night

17
321 - 44
Polar Night

18
322 - 43
Polar Night

19
323 - 42
Polar Night

20
324 - 41
Polar Night

21
325 - 40
Polar Night

22
326 - 39
Polar Night

23
327 - 38
Polar Night

24
328 - 37
Polar Night

25
329 - 36
Polar Night

26
330 - 35
Polar Night

27
331 - 34
Polar Night

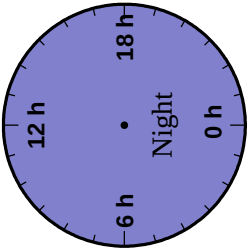
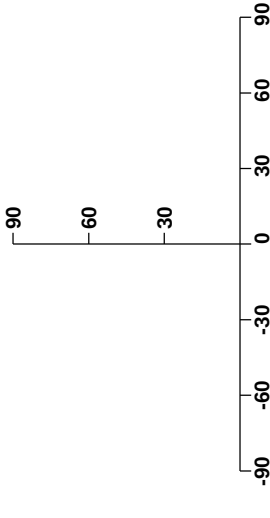
28
332 - 33
Polar Night

29
333 - 32
Polar Night

30
334 - 31
Polar Night

December 2013

Ny-Alesund
11.92°E, 78.92°N



Pink Sun elevation, for Dec. 21

Pink Duration of the day, for December 21

Sunrise and Sunset at Ny-Alesund (TL ± 1 mn)

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

48

2
336 - 29
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

1
335 - 30
Polar Night

49

9
343 - 22
Polar Night

10
344 - 21
Polar Night

11
345 - 20
Polar Night

12
346 - 19
Polar Night

13
347 - 18
Polar Night

14
348 - 17
Polar Night

15
349 - 16
Polar Night

50

16
350 - 15
Polar Night

17
351 - 14
Polar Night

18
352 - 13
Polar Night

19
353 - 12
Polar Night

20
354 - 11
Polar Night

21
355 - 10
Polar Night

22
356 - 9
Polar Night

51

23
357 - 8
Polar Night

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

29
363 - 2
Polar Night

52

30
364 - 1
Polar Night

31
365 - 0
Polar Night

53