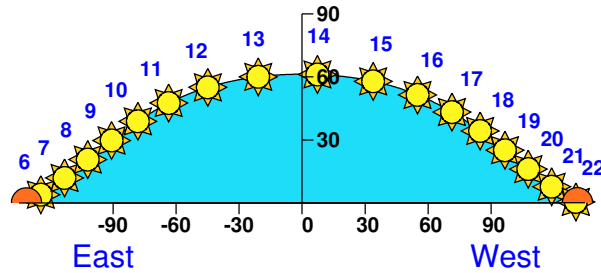


Sun Calendar 2018

Produced by *ScientiDev*
www.scientidev.fr

Noordwijk
4.26°E, 52.14°N

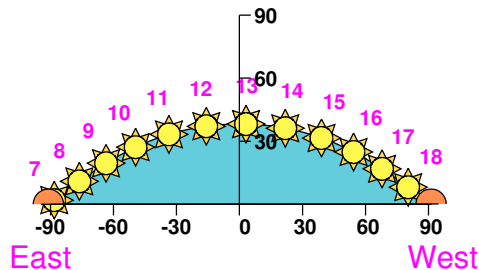
Summer



June 21

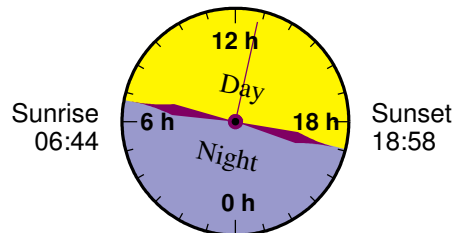


Spring



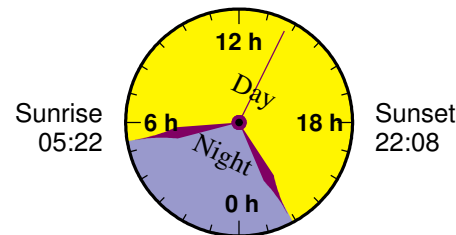
March 21

Day duration 12:14



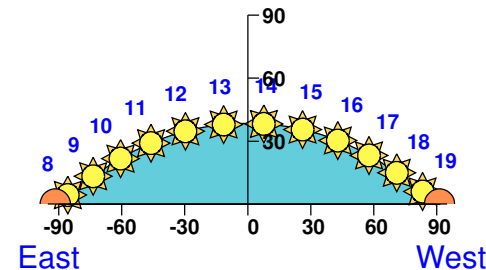
Spring Equinox

Day duration 16:46



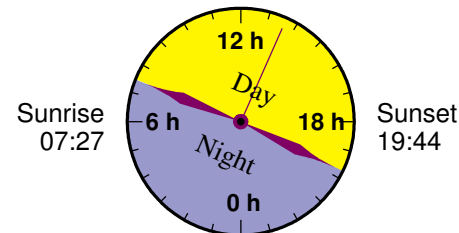
Summer Solstice

Autumn



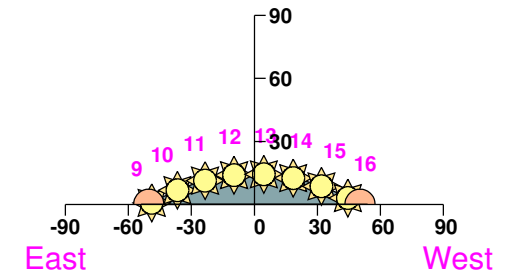
Sept. 21

Day duration 12:17



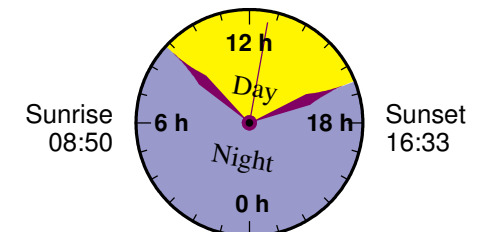
Autumn Equinox

Winter



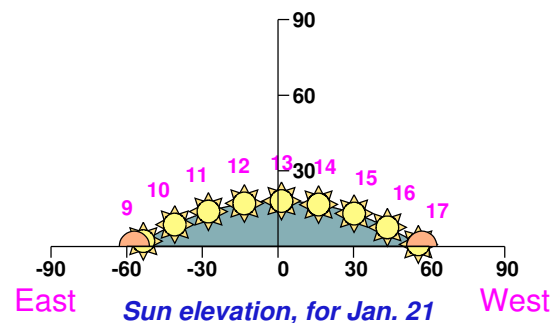
Dec. 21

Day duration 7:43



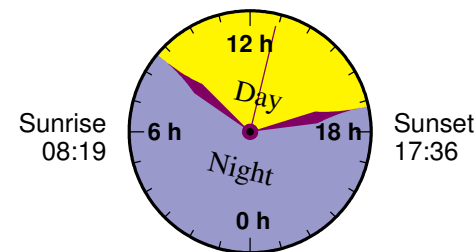
Winter Solstice

January 2018



Noordwijk

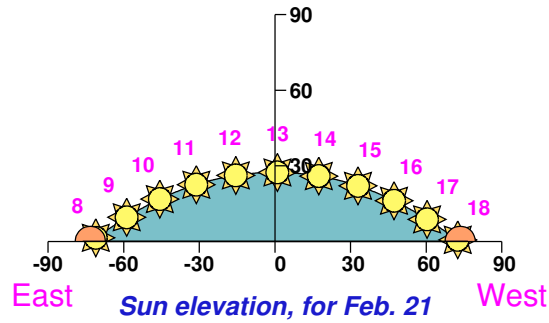
4.26°E, 52.14°N



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

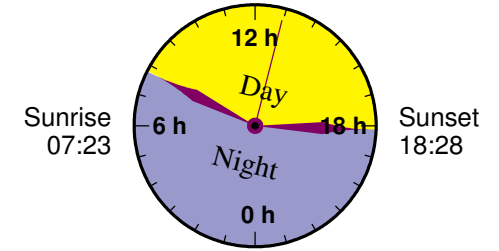
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1	1 - 364 08:52 - 16:42 15°	2 - 363 08:52 - 16:43 15°	3 - 362 08:52 - 16:44 15°	4 - 361 08:51 - 16:45 15°	5 - 360 08:51 - 16:46 15°	6 - 359 08:51 - 16:48 15°	7 - 358 08:50 - 16:49 16°
2	8 - 357 08:50 - 16:50 16°	9 - 356 08:49 - 16:52 16°	10 - 355 08:49 - 16:53 16°	11 - 354 08:48 - 16:54 16°	12 - 353 08:47 - 16:56 16°	13 - 352 08:47 - 16:57 16°	14 - 351 08:46 - 16:59 17°
3	15 - 350 08:45 - 17:01 17°	16 - 349 08:44 - 17:02 17°	17 - 348 08:43 - 17:04 17°	18 - 347 08:42 - 17:05 17°	19 - 346 08:41 - 17:07 18°	20 - 345 08:40 - 17:09 18°	21 - 344 08:39 - 17:11 18°
4	22 - 343 08:38 - 17:12 18°	23 - 342 08:36 - 17:14 19°	24 - 341 08:35 - 17:16 19°	25 - 340 08:34 - 17:18 19°	26 - 339 08:33 - 17:19 19°	27 - 338 08:31 - 17:21 20°	28 - 337 08:30 - 17:23 20°
5	29 - 336 08:28 - 17:25 20°	30 - 335 08:27 - 17:27 20°	31 - 334 08:25 - 17:28 21°				

February 2018



Noordwijk

4.26°E, 52.14°N



Duration of the day, for February 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

5

1 32 - 333
08:24 - 17:30 21°

2 33 - 332
08:22 - 17:32 21°

3 34 - 331
08:20 - 17:34 21°

4 35 - 330
08:19 - 17:36 22°

6

5 36 - 329
08:17 - 17:38 22°

6 37 - 328
08:15 - 17:40 22°

7 38 - 327
08:14 - 17:42 23°

8 39 - 326
08:12 - 17:43 23°

9 40 - 325
08:10 - 17:45 23°

10 41 - 324
08:08 - 17:47 24°

11 42 - 323
08:06 - 17:49 24°

7

12 43 - 322
08:04 - 17:51 24°

13 44 - 321
08:03 - 17:53 25°

14 45 - 320
08:01 - 17:55 25°

15 46 - 319
07:59 - 17:57 25°

16 47 - 318
07:57 - 17:58 26°

17 48 - 317
07:55 - 18:00 26°

18 49 - 316
07:53 - 18:02 26°

8

19 50 - 315
07:51 - 18:04 27°

20 51 - 314
07:49 - 18:06 27°

21 52 - 313
07:47 - 18:08 27°

22 53 - 312
07:44 - 18:10 28°

23 54 - 311
07:42 - 18:11 28°

24 55 - 310
07:40 - 18:13 29°

25 56 - 309
07:38 - 18:15 29°

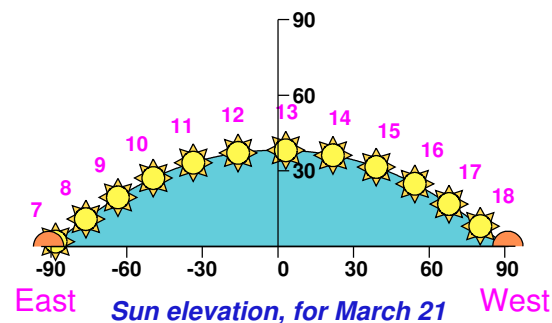
9

26 57 - 308
07:36 - 18:17 29°

27 58 - 307
07:34 - 18:19 30°

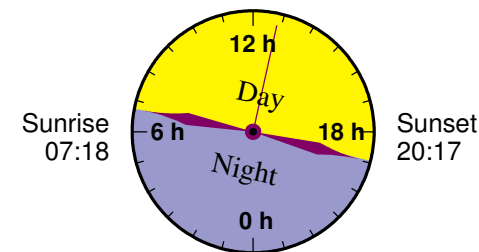
28 59 - 306
07:32 - 18:21 30°

March 2018



Noordwijk

4.26°E, 52.14°N



Duration of the day, for March 21

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

Time change March 25

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

9

1 60 - 305
07:29 - 18:22 30°

2 61 - 304
07:27 - 18:24 31°

3 62 - 303
07:25 - 18:26 31°

4 63 - 302
07:23 - 18:28 32°

10

5 64 - 301
07:21 - 18:30 32°

6 65 - 300
07:18 - 18:31 32°

7 66 - 299
07:16 - 18:33 33°

8 67 - 298
07:14 - 18:35 33°

9 68 - 297
07:11 - 18:37 33°

10 69 - 296
07:09 - 18:39 34°

11 70 - 295
07:07 - 18:40 34°

11

12 71 - 294
07:05 - 18:42 35°

13 72 - 293
07:02 - 18:44 35°

14 73 - 292
07:00 - 18:46 35°

15 74 - 291
06:58 - 18:47 36°

16 75 - 290
06:55 - 18:49 36°

17 76 - 289
06:53 - 18:51 37°

18 77 - 288
06:51 - 18:53 37°

12

19 78 - 287
06:48 - 18:54 37°

20 79 - 286
06:46 - 18:56 38°

21 80 - 285
06:44 - 18:58 38°

22 81 - 284
06:41 - 19:00 39°

23 82 - 283
06:39 - 19:01 39°

24 83 - 282
06:37 - 19:03 39°

25 84 - 281
07:34 - 20:05 40°

13

26 85 - 280
Polar Night

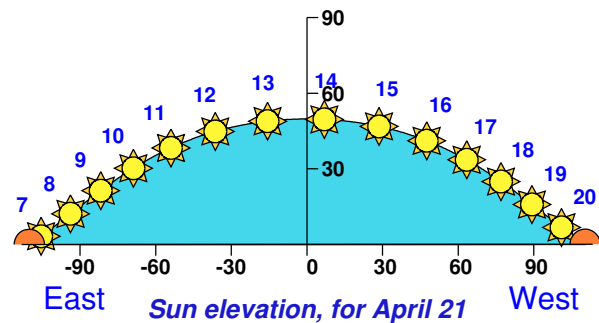
27 86 - 279
07:30 - 20:08 41°

28 87 - 278
07:28 - 20:10 41°

29 88 - 277
07:25 - 20:12 41°

30 89 - 276
07:23 - 20:13 42°

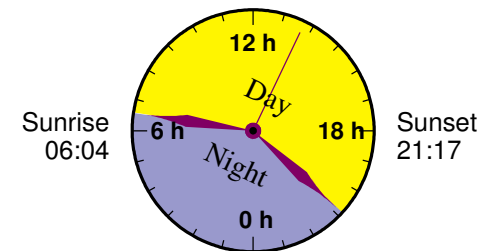
31 90 - 275
07:21 - 20:15 42°



April 2018

Noordwijk

4.26°E, 52.14°N



Duration of the day, for April 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

13

14

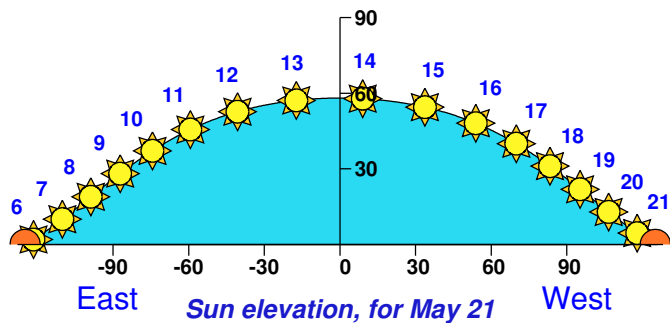
15

16

17

18

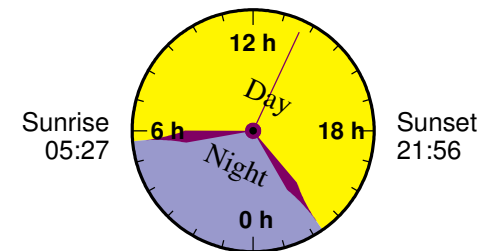
						1 91 - 274 07:18 - 20:17 43°
2 92 - 273 07:16 - 20:19 43° 	3 93 - 272 07:14 - 20:20 43° 	4 94 - 271 07:11 - 20:22 44° 	5 95 - 270 07:09 - 20:24 44° 	6 96 - 269 07:07 - 20:25 44° 	7 97 - 268 07:04 - 20:27 45° 	8 98 - 267 07:02 - 20:29 45°
9 99 - 266 07:00 - 20:31 46° 	10 100 - 265 06:58 - 20:32 46° 	11 101 - 264 06:55 - 20:34 46° 	12 102 - 263 06:53 - 20:36 47° 	13 103 - 262 06:51 - 20:38 47° 	14 104 - 261 06:49 - 20:39 47° 	15 105 - 260 06:47 - 20:41 48°
16 106 - 259 06:44 - 20:43 48° 	17 107 - 258 06:42 - 20:44 48° 	18 108 - 257 06:40 - 20:46 49° 	19 109 - 256 06:38 - 20:48 49° 	20 110 - 255 06:36 - 20:50 49° 	21 111 - 254 06:34 - 20:51 50° 	22 112 - 253 06:31 - 20:53 50°
23 113 - 252 06:29 - 20:55 50° 	24 114 - 251 06:27 - 20:56 51° 	25 115 - 250 06:25 - 20:58 51° 	26 116 - 249 06:23 - 21:00 51° 	27 117 - 248 06:21 - 21:02 52° 	28 118 - 247 06:19 - 21:03 52° 	29 119 - 246 06:17 - 21:05 52°
30 120 - 245 06:15 - 21:07 53° 						



May 2018

Noordwijk

4.26°E, 52.14°N



Duration of the day, for May 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

18

19

20

21

22

1 121 - 244
06:13 - 21:08 53°

2 122 - 243
06:11 - 21:10 53°

3 123 - 242
06:09 - 21:12 54°

4 124 - 241
06:08 - 21:13 54°

5 125 - 240
06:06 - 21:15 54°

6 126 - 239
06:04 - 21:17 54°

7 127 - 238
06:02 - 21:18 55°

8 128 - 237
06:00 - 21:20 55°

9 129 - 236
05:59 - 21:22 55°

10 130 - 235
05:57 - 21:23 56°

11 131 - 234
05:55 - 21:25 56°

12 132 - 233
05:54 - 21:26 56°

13 133 - 232
05:52 - 21:28 56°

14 134 - 231
05:50 - 21:30 57°

15 135 - 230
05:49 - 21:31 57°

16 136 - 229
05:47 - 21:33 57°

17 137 - 228
05:46 - 21:34 57°

18 138 - 227
05:44 - 21:36 57°

19 139 - 226
05:43 - 21:37 58°

20 140 - 225
05:42 - 21:39 58°

21 141 - 224
05:40 - 21:40 58°

22 142 - 223
05:39 - 21:41 58°

23 143 - 222
05:38 - 21:43 58°

24 144 - 221
05:37 - 21:44 59°

25 145 - 220
05:35 - 21:46 59°

26 146 - 219
05:34 - 21:47 59°

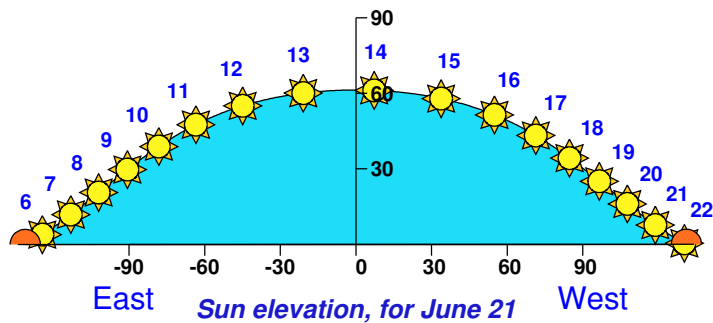
27 147 - 218
05:33 - 21:48 59°

28 148 - 217
05:32 - 21:49 59°

29 149 - 216
05:31 - 21:51 60°

30 150 - 215
05:30 - 21:52 60°

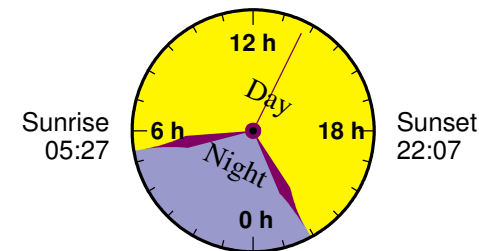
31 151 - 214
05:29 - 21:53 60°



June 2018

Noordwijk

4.26°E, 52.14°N



Duration of the day, for June 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

22

1 152 - 213 05:28 - 21:54 60° 	2 153 - 212 05:28 - 21:55 60° 	3 154 - 211 05:27 - 21:56 60°
--	--	--

23

4 155 - 210 05:26 - 21:57 60° 	5 156 - 209 05:26 - 21:58 60° 	6 157 - 208 05:25 - 21:59 61° 	7 158 - 207 05:24 - 22:00 61° 	8 159 - 206 05:24 - 22:01 61° 	9 160 - 205 05:23 - 22:02 61° 	10 161 - 204 05:23 - 22:03 61°
--	--	--	--	--	--	---

24

11 162 - 203 05:23 - 22:03 61° 	12 163 - 202 05:22 - 22:04 61° 	13 164 - 201 05:22 - 22:05 61° 	14 165 - 200 05:22 - 22:05 61° 	15 166 - 199 05:22 - 22:06 61° 	16 167 - 198 05:22 - 22:06 61° 	17 168 - 197 05:22 - 22:07 61°
---	---	---	---	---	---	---

25

18 169 - 196 05:22 - 22:07 61° 	19 170 - 195 05:22 - 22:07 61° 	20 171 - 194 05:22 - 22:08 61° 	21 172 - 193 05:22 - 22:08 61° 	22 173 - 192 05:22 - 22:08 61° 	23 174 - 191 05:23 - 22:08 61° 	24 175 - 190 05:23 - 22:08 61°
---	---	---	---	---	---	---

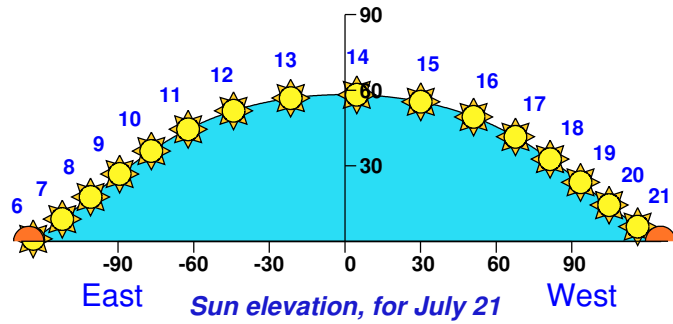
26

25 176 - 189 05:23 - 22:08 61° 	26 177 - 188 05:24 - 22:08 61° 	27 178 - 187 05:24 - 22:08 61° 	28 179 - 186 05:25 - 22:08 61° 	29 180 - 185 05:25 - 22:08 61° 	30 181 - 184 05:26 - 22:07 61°
---	---	---	---	---	---

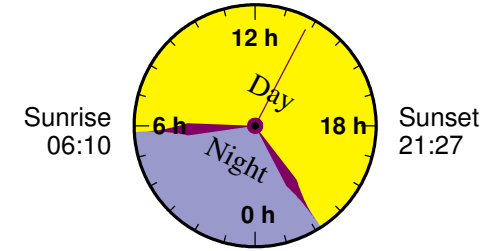
July 2018

Noordwijk

4.26°E, 52.14°N



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



Duration of the day, for July 21

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

26

27

28

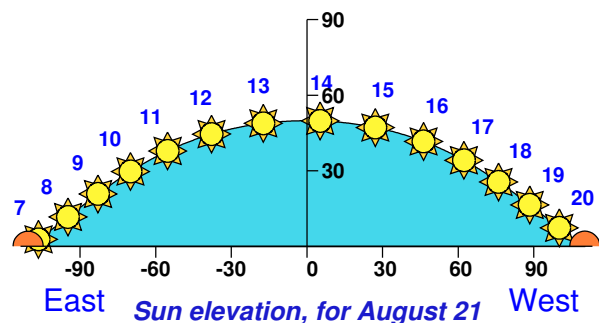
29

30

31

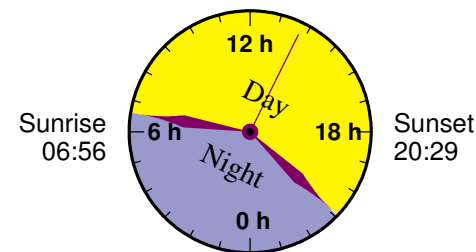
						1 182 - 183 05:27 - 22:07 61°
2 183 - 182 05:27 - 22:07 61° 	3 184 - 181 05:28 - 22:06 61° 	4 185 - 180 05:29 - 22:06 61° 	5 186 - 179 05:30 - 22:05 61° 	6 187 - 178 05:31 - 22:05 61° 	7 188 - 177 05:32 - 22:04 60° 	8 189 - 176 05:32 - 22:03 60°
9 190 - 175 05:33 - 22:03 60° 	10 191 - 174 05:35 - 22:02 60° 	11 192 - 173 05:36 - 22:01 60° 	12 193 - 172 05:37 - 22:00 60° 	13 194 - 171 05:38 - 21:59 60° 	14 195 - 170 05:39 - 21:58 60° 	15 196 - 169 05:40 - 21:57 59°
16 197 - 168 05:41 - 21:56 59° 	17 198 - 167 05:43 - 21:55 59° 	18 199 - 166 05:44 - 21:54 59° 	19 200 - 165 05:45 - 21:53 59° 	20 201 - 164 05:47 - 21:52 58° 	21 202 - 163 05:48 - 21:50 58° 	22 203 - 162 05:49 - 21:49 58°
23 204 - 161 05:51 - 21:48 58° 	24 205 - 160 05:52 - 21:46 58° 	25 206 - 159 05:54 - 21:45 57° 	26 207 - 158 05:55 - 21:43 57° 	27 208 - 157 05:57 - 21:42 57° 	28 209 - 156 05:58 - 21:40 57° 	29 210 - 155 06:00 - 21:39 57°
30 211 - 154 06:01 - 21:37 56° 	31 212 - 153 06:03 - 21:35 56° 					

August 2018



Noordwijk

4.26°E, 52.14°N



Duration of the day, for August 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

31

32

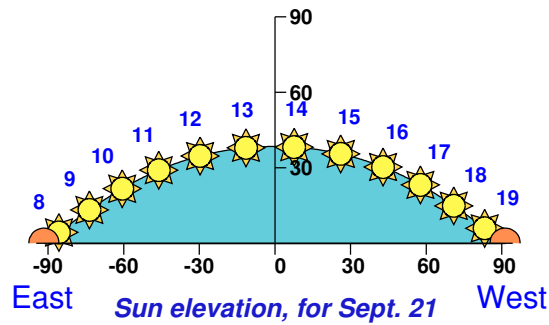
33

34

35

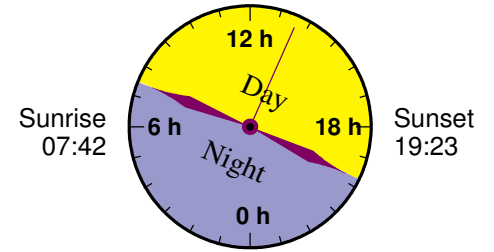
		1 213 - 152 06:04 - 21:34 56° 	2 214 - 151 06:06 - 21:32 56° 	3 215 - 150 06:07 - 21:30 55° 	4 216 - 149 06:09 - 21:29 55° 	5 217 - 148 06:10 - 21:27 55°
6 218 - 147 06:12 - 21:25 55° 	7 219 - 146 06:14 - 21:23 54° 	8 220 - 145 06:15 - 21:21 54° 	9 221 - 144 06:17 - 21:19 54° 	10 222 - 143 06:18 - 21:18 53° 	11 223 - 142 06:20 - 21:16 53° 	12 224 - 141 06:22 - 21:14 53°
13 225 - 140 06:23 - 21:12 52° 	14 226 - 139 06:25 - 21:10 52° 	15 227 - 138 06:27 - 21:08 52° 	16 228 - 137 06:28 - 21:06 52° 	17 229 - 136 06:30 - 21:04 51° 	18 230 - 135 06:31 - 21:01 51° 	19 231 - 134 06:33 - 20:59 51°
20 232 - 133 06:35 - 20:57 50° 	21 233 - 132 06:36 - 20:55 50° 	22 234 - 131 06:38 - 20:53 50° 	23 235 - 130 06:40 - 20:51 49° 	24 236 - 129 06:41 - 20:49 49° 	25 237 - 128 06:43 - 20:46 49° 	26 238 - 127 06:45 - 20:44 48°
27 239 - 126 06:46 - 20:42 48° 	28 240 - 125 06:48 - 20:40 48° 	29 241 - 124 06:49 - 20:38 47° 	30 242 - 123 06:51 - 20:35 47° 	31 243 - 122 06:53 - 20:33 46° 		

September 2018



Noordwijk

4.26°E, 52.14°N



Duration of the day, for September 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

35

36

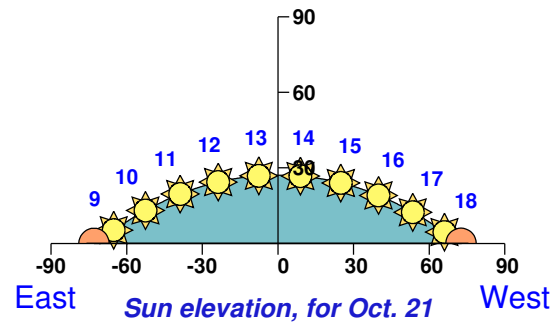
37

38

39

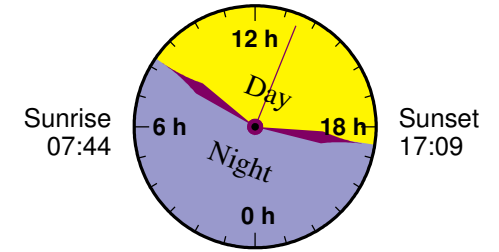
1 244 - 121 06:54 - 20:31 46° 	2 245 - 120 06:56 - 20:29 46°
3 246 - 119 06:58 - 20:26 45° 	4 247 - 118 06:59 - 20:24 45°
5 248 - 117 07:01 - 20:22 45° 	6 249 - 116 07:03 - 20:19 44°
7 250 - 115 07:04 - 20:17 44° 	8 251 - 114 07:06 - 20:15 43°
9 252 - 113 07:07 - 20:12 43° 	
10 253 - 112 07:09 - 20:10 43° 	11 254 - 111 07:11 - 20:08 42°
12 255 - 110 07:12 - 20:05 42° 	13 256 - 109 07:14 - 20:03 42°
14 257 - 108 07:16 - 20:01 41° 	15 258 - 107 07:17 - 19:58 41°
16 259 - 106 07:19 - 19:56 40° 	
17 260 - 105 07:21 - 19:54 40° 	18 261 - 104 07:22 - 19:51 40°
19 262 - 103 07:24 - 19:49 39° 	20 263 - 102 07:26 - 19:47 39°
21 264 - 101 07:27 - 19:44 38° 	22 265 - 100 07:29 - 19:42 38°
23 266 - 99 07:30 - 19:40 38° 	
24 267 - 98 07:32 - 19:37 37° 	25 268 - 97 07:34 - 19:35 37°
26 269 - 96 07:35 - 19:32 37° 	27 270 - 95 07:37 - 19:30 36°
28 271 - 94 07:39 - 19:28 36° 	29 272 - 93 07:40 - 19:25 35°
30 273 - 92 07:42 - 19:23 35° 	

October 2018



Noordwijk

4.26°E, 52.14°N



Duration of the day, for October 21

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

Time change October 28

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

40

1 274 - 91
07:44 - 19:21 35°

2 275 - 90
07:45 - 19:19 34°

3 276 - 89
07:47 - 19:16 34°

4 277 - 88
07:49 - 19:14 33°

5 278 - 87
07:51 - 19:12 33°

6 279 - 86
07:52 - 19:09 33°

7 280 - 85
07:54 - 19:07 32°

41

8 281 - 84
07:56 - 19:05 32°

9 282 - 83
07:57 - 19:03 32°

10 283 - 82
07:59 - 19:00 31°

11 284 - 81
08:01 - 18:58 31°

12 285 - 80
08:03 - 18:56 30°

13 286 - 79
08:04 - 18:54 30°

14 287 - 78
08:06 - 18:51 30°

42

15 288 - 77
08:08 - 18:49 29°

16 289 - 76
08:10 - 18:47 29°

17 290 - 75
08:11 - 18:45 29°

18 291 - 74
08:13 - 18:43 28°

19 292 - 73
08:15 - 18:41 28°

20 293 - 72
08:17 - 18:38 27°

21 294 - 71
08:18 - 18:36 27°

43

22 295 - 70
08:20 - 18:34 27°

23 296 - 69
08:22 - 18:32 26°

24 297 - 68
08:24 - 18:30 26°

25 298 - 67
08:25 - 18:28 26°

26 299 - 66
08:27 - 18:26 25°

27 300 - 65
08:29 - 18:24 25°

28 301 - 64
07:31 - 17:22 25°

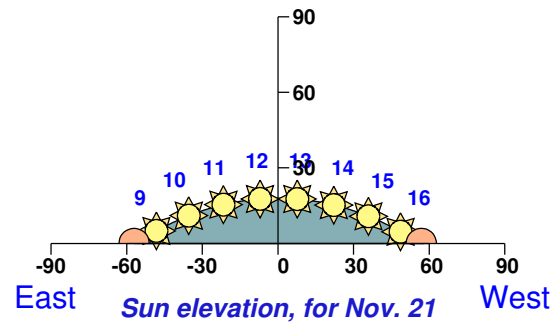
44

29 302 - 63
07:33 - 17:20 24°

30 303 - 62
07:34 - 17:18 24°

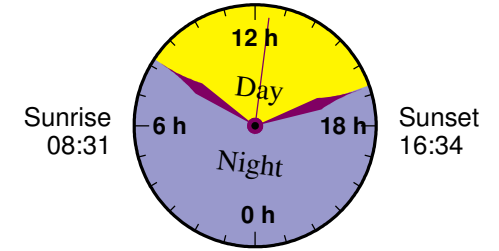
31 304 - 61
07:36 - 17:16 24°

November 2018



Noordwijk

4.26°E, 52.14°N



Duration of the day, for November 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

44

1 305 - 60 07:38 - 17:15 23° 	2 306 - 59 07:40 - 17:13 23° 	3 307 - 58 07:42 - 17:11 23° 	4 308 - 57 07:44 - 17:09 22°
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45

5 309 - 56 07:45 - 17:07 22° 	6 310 - 55 07:47 - 17:06 22° 	7 311 - 54 07:49 - 17:04 22° 	8 312 - 53 07:51 - 17:02 21° 	9 313 - 52 07:53 - 17:01 21° 	10 314 - 51 07:54 - 16:59 21° 	11 315 - 50 07:56 - 16:57 20°
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46

12 316 - 49 07:58 - 16:56 20° 	13 317 - 48 08:00 - 16:54 20° 	14 318 - 47 08:02 - 16:53 20° 	15 319 - 46 08:03 - 16:52 19° 	16 320 - 45 08:05 - 16:50 19° 	17 321 - 44 08:07 - 16:49 19° 	18 322 - 43 08:08 - 16:48 19°
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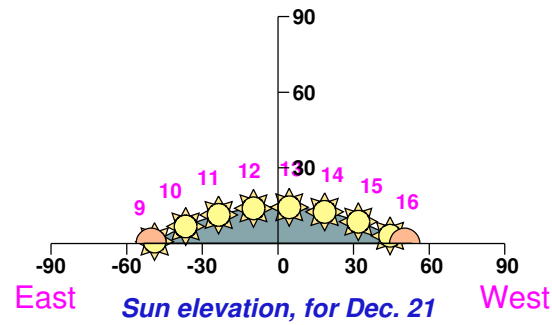
47

19 323 - 42 08:10 - 16:46 18° 	20 324 - 41 08:12 - 16:45 18° 	21 325 - 40 08:14 - 16:44 18° 	22 326 - 39 08:15 - 16:43 18° 	23 327 - 38 08:17 - 16:42 18° 	24 328 - 37 08:19 - 16:41 17° 	25 329 - 36 08:20 - 16:40 17°
--	--	--	--	--	--	--

48

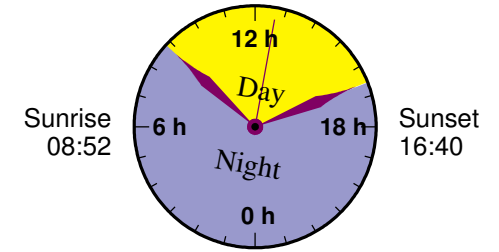
26 330 - 35 08:22 - 16:39 17° 	27 331 - 34 08:23 - 16:38 17° 	28 332 - 33 08:25 - 16:37 17° 	29 333 - 32 08:26 - 16:36 16° 	30 334 - 31 08:28 - 16:35 16°
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December 2018



Noordwijk

4.26°E, 52.14°N



Duration of the day, for December 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

48

49

50

51

52

53

1 335 - 30 08:29 - 16:35 16° 	2 336 - 29 08:31 - 16:34 16°
3 337 - 28 08:32 - 16:33 16° 	4 338 - 27 Polar Night
5 339 - 26 08:35 - 16:32 16° 	6 340 - 25 08:36 - 16:32 15°
7 341 - 24 08:37 - 16:32 15° 	8 342 - 23 08:38 - 16:31 15°
9 343 - 22 08:39 - 16:31 15° 	10 344 - 21 08:41 - 16:31 15°
11 345 - 20 08:42 - 16:31 15° 	12 346 - 19 08:43 - 16:31 15°
13 347 - 18 08:44 - 16:31 15° 	14 348 - 17 08:45 - 16:31 15°
15 349 - 16 08:45 - 16:31 15° 	16 350 - 15 08:46 - 16:31 15°
17 351 - 14 08:47 - 16:31 15° 	18 352 - 13 08:48 - 16:32 15°
19 353 - 12 08:48 - 16:32 15° 	20 354 - 11 08:49 - 16:32 14°
21 355 - 10 08:50 - 16:33 14° 	22 356 - 9 08:50 - 16:33 14°
23 357 - 8 08:51 - 16:34 14° 	24 358 - 7 08:51 - 16:34 15°
25 359 - 6 08:51 - 16:35 15° 	26 360 - 5 08:52 - 16:36 15°
27 361 - 4 08:52 - 16:37 15° 	28 362 - 3 08:52 - 16:37 15°
29 363 - 2 08:52 - 16:38 15° 	30 364 - 1 08:52 - 16:39 15°
31 365 - 0 08:52 - 16:40 15° 	