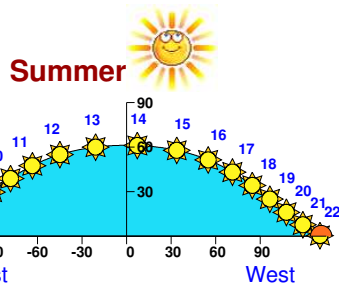


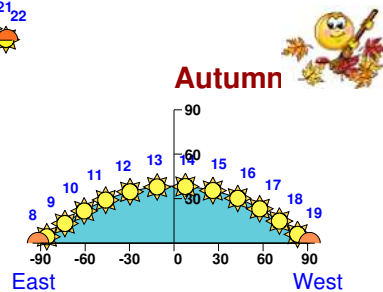
Sun Calendar 2018

Produced by *ScientiDev*
www.scientidev.fr

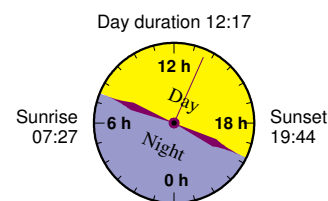
Noordwijk
4.26°E, 52.14°N



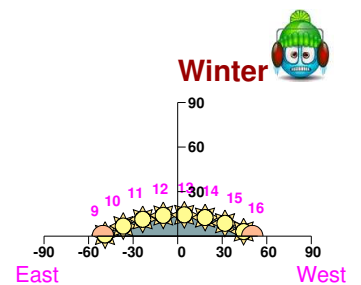
June 21



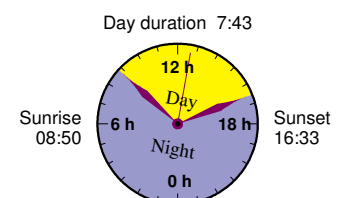
Sept. 21



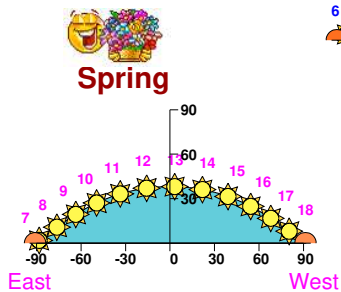
Autumn Equinox



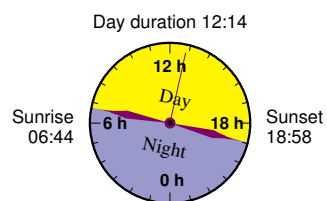
Dec. 21



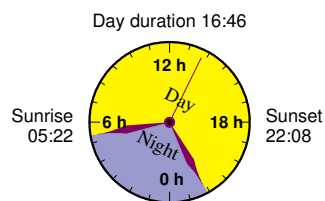
Winter Solstice



March 21

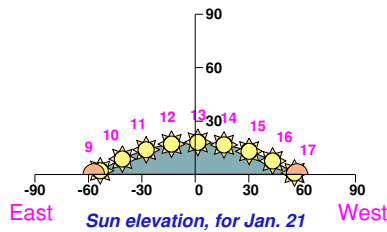


Spring Equinox



Summer Solstice

January 2018



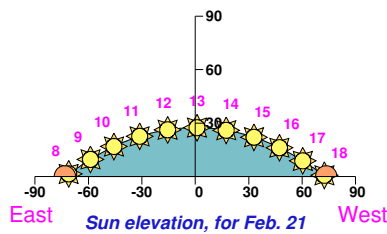
Noordwijk
4.26°E, 52.14°N



Duration of the day, for January 21

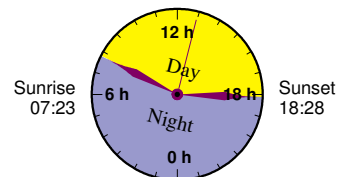
Sunrise and Sunset at Noordwijk (TL $\pm$ 1 mn) and sun maximal elevation (°)

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



February 2018

Noordwijk
4.26°E, 52.14°N



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

Duration of the day, for February 21

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

5

6

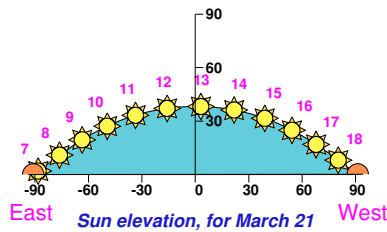
7

8

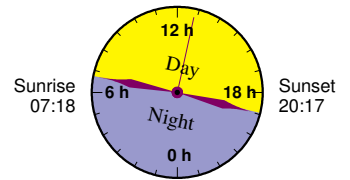
9

			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°
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°
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°
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°
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 ± 1 mn) and sun maximal elevation (°)

Time change March 25

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

9

10

11

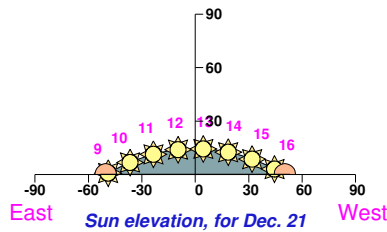
12

13

			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°
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°
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°
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°
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°	

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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 ± 1 mn) and sun maximal elevation (°)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

48

49

50

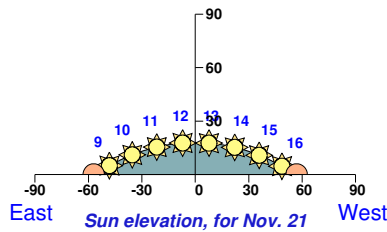
51

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°						

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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

45

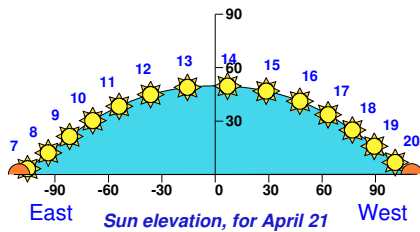
46

47

48

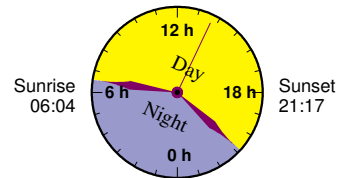
			1 305 - 60 07:38 - 17:15 23°	2 306 - 59 07:40 - 17:13 23°	3 307 - 58 07:42 - 17:11 23°	4 308 - 57 07:44 - 17:09 22°
5 309 - 56 07:45 - 17:07 22°	6 310 - 55 07:47 - 17:06 22°	7 311 - 54 07:49 - 17:04 22°	8 312 - 53 07:51 - 17:02 21°	9 313 - 52 07:53 - 17:01 21°	10 314 - 51 07:54 - 16:59 21°	11 315 - 50 07:56 - 16:57 20°
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°
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°
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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April 2018

Noordwijk
4.26°E, 52.14°N



Duration of the day, for April 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

13

14

15

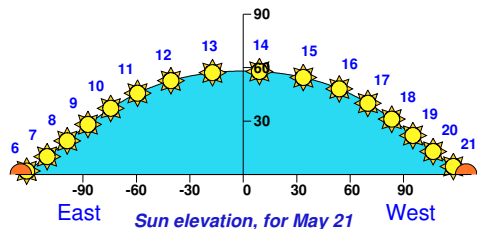
16

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°						

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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

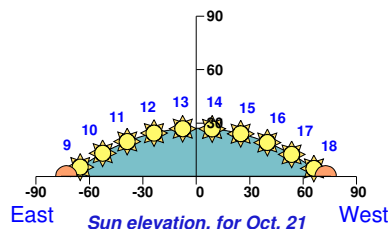
19

20

21

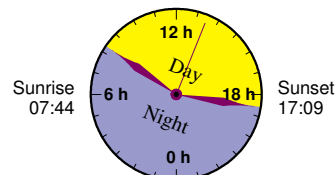
22

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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

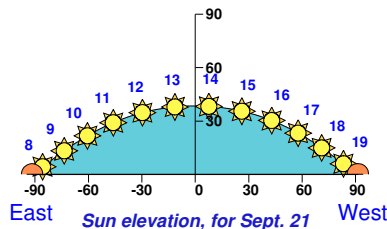
41

42

43

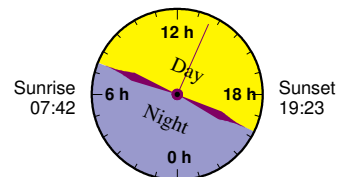
44

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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

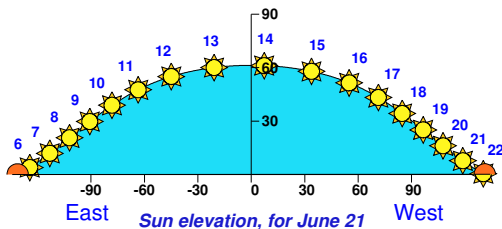
37

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°

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June 2018

Noordwijk
4.26°E, 52.14°N



Duration of the day, for June 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

22

23

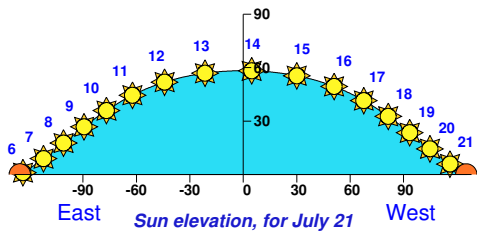
24

25

26

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

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July 2018

Noordwijk
4.26°E, 52.14°N



Duration of the day, for July 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

26

27

28

29

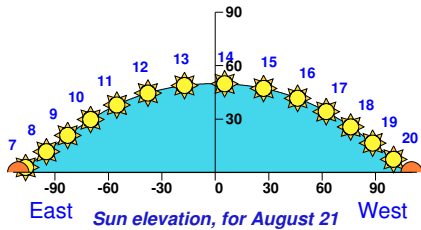
30

31

1 182 - 183
05:27 - 22:07 61°

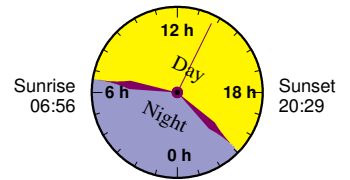
2 183 - 182 05:27 - 22:07 61°	3 184 - 181 05:28 - 22:06 61°	4 185 - 180 05:29 - 22:06 61°	5 186 - 179 05:30 - 22:05 61°	6 187 - 178 05:31 - 22:05 61°	7 188 - 177 05:32 - 22:04 60°	8 189 - 176 05:32 - 22:03 60°
9 190 - 175 05:33 - 22:03 60°	10 191 - 174 05:35 - 22:02 60°	11 192 - 173 05:36 - 22:01 60°	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°					

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August 2018

Noordwijk
4.26°E, 52.14°N



Duration of the day, for August 21

Sunrise and Sunset at Noordwijk (TL ± 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°		

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