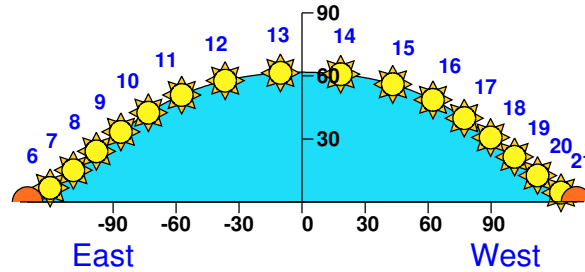


Sun Calendar 2018

Produced by *ScientiDev*
www.scientidev.fr

Katlenburg-Lindau
10.099°E, 51.682°N

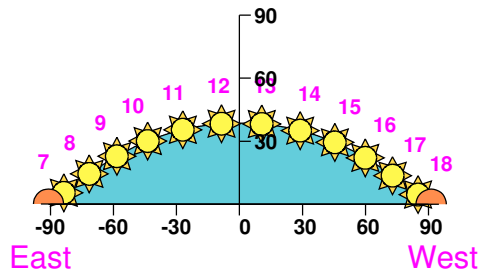
Summer



June 21

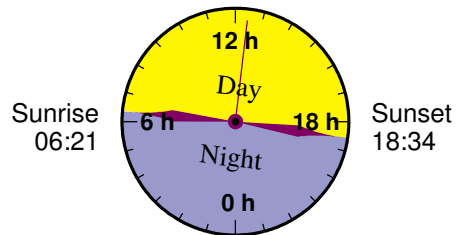


Spring



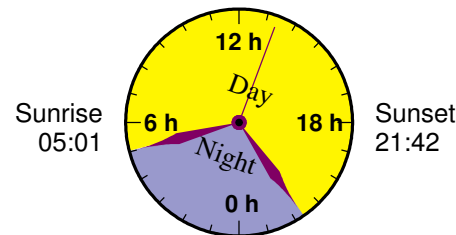
March 21

Day duration 12:14



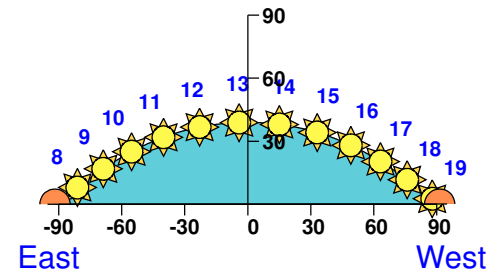
Spring Equinox

Day duration 16:41



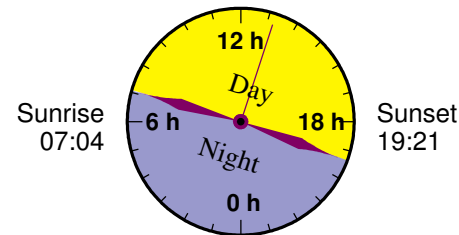
Summer Solstice

Autumn



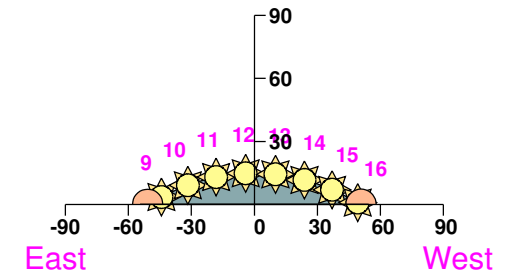
Sept. 21

Day duration 12:17



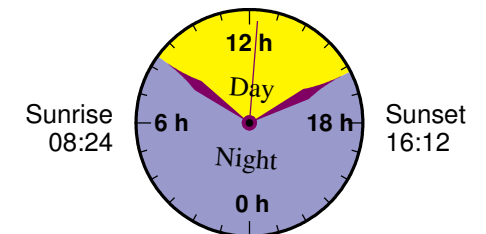
Autumn Equinox

Winter



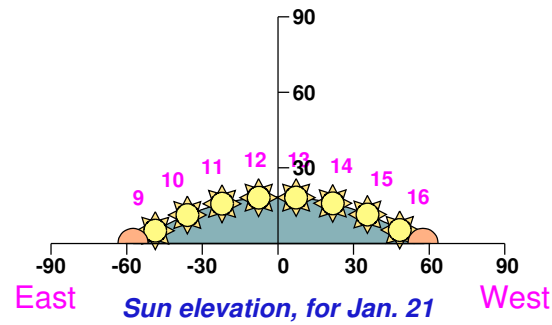
Dec. 21

Day duration 7:47



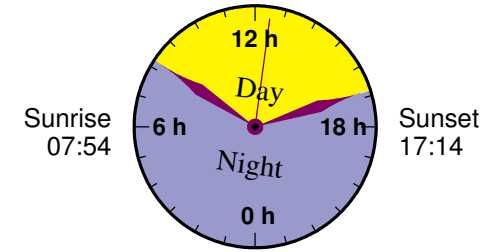
Winter Solstice

January 2018



Katlenburg-Lindau

10.099°E, 51.682°N

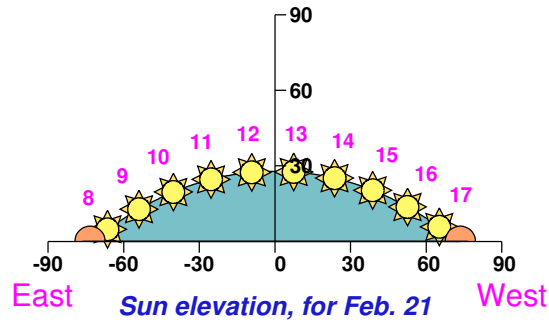


Duration of the day, for January 21

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

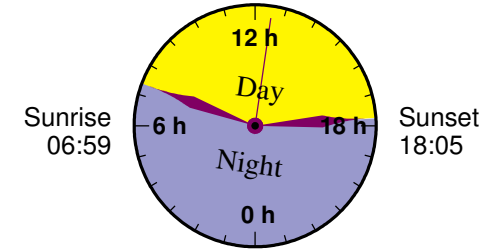
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1	1 1 - 364 08:26 - 16:21 15° 	2 2 - 363 08:26 - 16:22 15° 	3 3 - 362 08:26 - 16:23 16° 	4 4 - 361 08:26 - 16:24 16° 	5 5 - 360 08:25 - 16:25 16° 	6 6 - 359 08:25 - 16:26 16° 	7 7 - 358 08:25 - 16:28 16°
2	8 8 - 357 08:24 - 16:29 16° 	9 9 - 356 08:24 - 16:30 16° 	10 10 - 355 08:23 - 16:32 16° 	11 11 - 354 08:23 - 16:33 17° 	12 12 - 353 08:22 - 16:35 17° 	13 13 - 352 08:21 - 16:36 17° 	14 14 - 351 08:20 - 16:38 17°
3	15 15 - 350 08:20 - 16:39 17° 	16 16 - 349 08:19 - 16:41 17° 	17 17 - 348 08:18 - 16:42 18° 	18 18 - 347 08:17 - 16:44 18° 	19 19 - 346 08:16 - 16:46 18° 	20 20 - 345 08:15 - 16:47 18° 	21 21 - 344 08:14 - 16:49 19°
4	22 22 - 343 08:12 - 16:51 19° 	23 23 - 342 08:11 - 16:52 19° 	24 24 - 341 08:10 - 16:54 19° 	25 25 - 340 08:09 - 16:56 19° 	26 26 - 339 08:07 - 16:58 20° 	27 27 - 338 08:06 - 16:59 20° 	28 28 - 337 08:05 - 17:01 20°
5	29 29 - 336 08:03 - 17:03 20° 	30 30 - 335 08:02 - 17:05 21° 	31 31 - 334 08:00 - 17:07 21° 				

February 2018



Katlenburg-Lindau

10.099°E, 51.682°N



Duration of the day, for February 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

5

6

7

8

9

1 32 - 333
07:59 - 17:08 21°

2 33 - 332
07:57 - 17:10 22°

3 34 - 331
07:56 - 17:12 22°

4 35 - 330
07:54 - 17:14 22°

5 36 - 329
07:52 - 17:16 23°

6 37 - 328
07:51 - 17:18 23°

7 38 - 327
07:49 - 17:20 23°

8 39 - 326
07:47 - 17:21 23°

9 40 - 325
07:45 - 17:23 24°

10 41 - 324
07:44 - 17:25 24°

11 42 - 323
07:42 - 17:27 24°

12 43 - 322
07:40 - 17:29 25°

13 44 - 321
07:38 - 17:31 25°

14 45 - 320
07:36 - 17:32 25°

15 46 - 319
07:34 - 17:34 26°

16 47 - 318
07:32 - 17:36 26°

17 48 - 317
07:30 - 17:38 26°

18 49 - 316
07:28 - 17:40 27°

19 50 - 315
07:26 - 17:42 27°

20 51 - 314
07:24 - 17:43 28°

21 52 - 313
07:22 - 17:45 28°

22 53 - 312
07:20 - 17:47 28°

23 54 - 311
07:18 - 17:49 29°

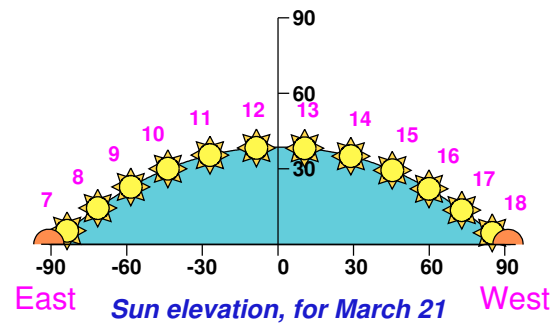
24 55 - 310
07:16 - 17:51 29°

25 56 - 309
07:14 - 17:52 29°

26 57 - 308
07:12 - 17:54 30°

27 58 - 307
07:10 - 17:56 30°

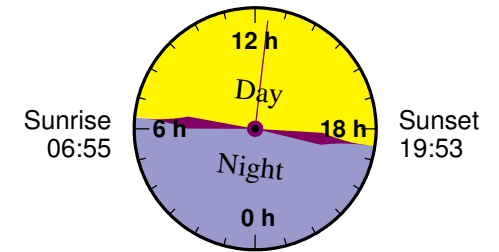
28 59 - 306
07:08 - 17:58 30°



March 2018

Katlenburg-Lindau

10.099°E, 51.682°N



Duration of the day, for March 21

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

Time change March 25

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

9

1 60 - 305 07:05 - 18:00 31° 	2 61 - 304 07:03 - 18:01 31° 	3 62 - 303 07:01 - 18:03 32° 	4 63 - 302 06:59 - 18:05 32°
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10

5 64 - 301 06:57 - 18:07 32° 	6 65 - 300 06:55 - 18:08 33° 	7 66 - 299 06:52 - 18:10 33° 	8 67 - 298 06:50 - 18:12 34° 	9 68 - 297 06:48 - 18:14 34° 	10 69 - 296 06:46 - 18:15 34° 	11 70 - 295 06:43 - 18:17 35°
--	--	--	--	--	---	---

11

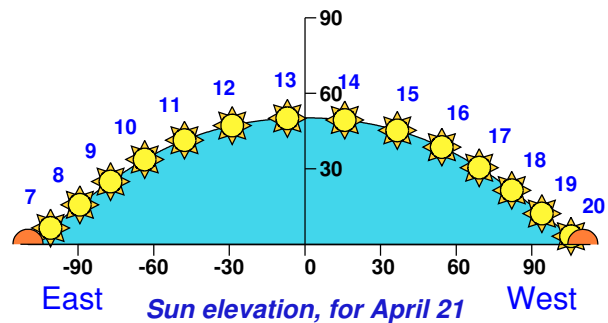
12 71 - 294 06:41 - 18:19 35° 	13 72 - 293 06:39 - 18:21 35° 	14 73 - 292 06:37 - 18:22 36° 	15 74 - 291 06:34 - 18:24 36° 	16 75 - 290 06:32 - 18:26 37° 	17 76 - 289 06:30 - 18:28 37° 	18 77 - 288 06:27 - 18:29 37°
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12

19 78 - 287 06:25 - 18:31 38° 	20 79 - 286 06:23 - 18:33 38° 	21 80 - 285 06:21 - 18:34 39° 	22 81 - 284 06:18 - 18:36 39° 	23 82 - 283 06:16 - 18:38 39° 	24 83 - 282 06:14 - 18:39 40° 	25 84 - 281 07:11 - 19:41 40°
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13

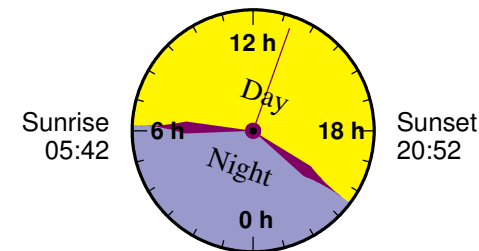
26 85 - 280 07:09 - 19:43 41° 	27 86 - 279 07:07 - 19:45 41° 	28 87 - 278 07:05 - 19:46 41° 	29 88 - 277 07:02 - 19:48 42° 	30 89 - 276 07:00 - 19:50 42° 	31 90 - 275 06:58 - 19:51 43°
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April 2018

Katlenburg-Lindau

10.099°E, 51.682°N



Duration of the day, for April 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

13

14

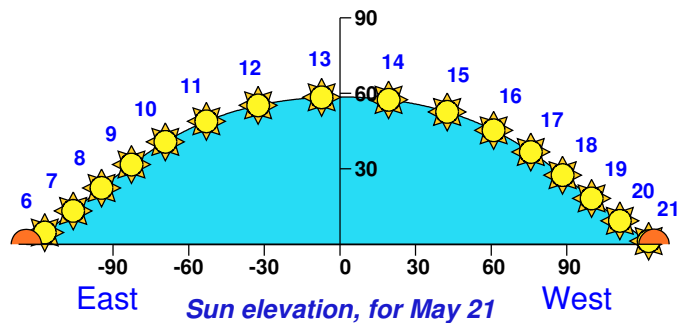
15

16

17

18

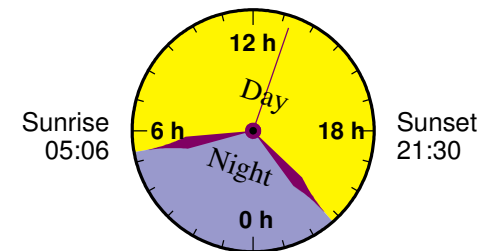
							1 91 - 274 06:55 - 19:53 43°
2 92 - 273 06:53 - 19:55 43°	3 93 - 272 06:51 - 19:56 44°	4 94 - 271 06:49 - 19:58 44°	5 95 - 270 06:46 - 20:00 44°	6 96 - 269 06:44 - 20:01 45°	7 97 - 268 06:42 - 20:03 45°	8 98 - 267 06:40 - 20:05 46°	
9 99 - 266 06:37 - 20:07 46°	10 100 - 265 06:35 - 20:08 46°	11 101 - 264 06:33 - 20:10 47°	12 102 - 263 06:31 - 20:12 47°	13 103 - 262 06:28 - 20:13 47°	14 104 - 261 06:26 - 20:15 48°	15 105 - 260 06:24 - 20:17 48°	
16 106 - 259 06:22 - 20:18 49°	17 107 - 258 06:20 - 20:20 49°	18 108 - 257 06:18 - 20:22 49°	19 109 - 256 06:16 - 20:23 50°	20 110 - 255 06:13 - 20:25 50°	21 111 - 254 06:11 - 20:27 50°	22 112 - 253 06:09 - 20:28 51°	
23 113 - 252 06:07 - 20:30 51°	24 114 - 251 06:05 - 20:32 51°	25 115 - 250 06:03 - 20:33 52°	26 116 - 249 06:01 - 20:35 52°	27 117 - 248 05:59 - 20:37 52°	28 118 - 247 05:57 - 20:38 53°	29 119 - 246 05:55 - 20:40 53°	
30 120 - 245 05:53 - 20:42 53°							



May 2018

Katlenburg-Lindau

10.099°E, 51.682°N



Duration of the day, for May 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

18

1 121 - 244
05:51 - 20:43 53°

2 122 - 243
05:50 - 20:45 54°

3 123 - 242
05:48 - 20:47 54°

4 124 - 241
05:46 - 20:48 54°

5 125 - 240
05:44 - 20:50 55°

6 126 - 239
05:42 - 20:52 55°

19

7 127 - 238
05:40 - 20:53 55°

8 128 - 237
05:39 - 20:55 55°

9 129 - 236
05:37 - 20:56 56°

10 130 - 235
05:35 - 20:58 56°

11 131 - 234
05:34 - 21:00 56°

12 132 - 233
05:32 - 21:01 57°

13 133 - 232
05:31 - 21:03 57°

20

14 134 - 231
05:29 - 21:04 57°

15 135 - 230
05:27 - 21:06 57°

16 136 - 229
05:26 - 21:07 57°

17 137 - 228
05:25 - 21:09 58°

18 138 - 227
05:23 - 21:10 58°

19 139 - 226
05:22 - 21:12 58°

20 140 - 225
05:20 - 21:13 58°

21

21 141 - 224
05:19 - 21:15 59°

22 142 - 223
05:18 - 21:16 59°

23 143 - 222
05:17 - 21:17 59°

24 144 - 221
05:15 - 21:19 59°

25 145 - 220
05:14 - 21:20 59°

26 146 - 219
05:13 - 21:21 59°

27 147 - 218
05:12 - 21:22 60°

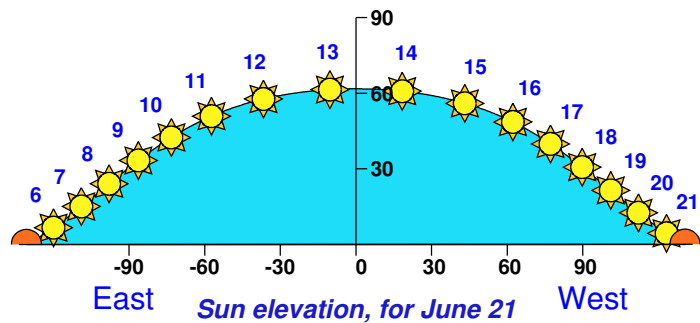
22

28 148 - 217
05:11 - 21:24 60°

29 149 - 216
05:10 - 21:25 60°

30 150 - 215
05:09 - 21:26 60°

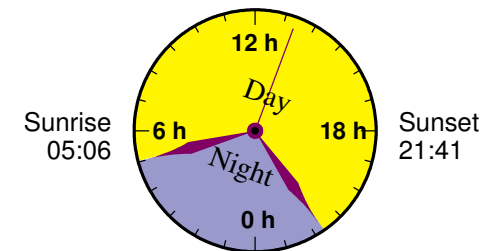
31 151 - 214
05:08 - 21:27 60°



June 2018

Katlenburg-Lindau

10.099°E, 51.682°N



Duration of the day, for June 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

22

1 152 - 213 05:08 - 21:28 60° 	2 153 - 212 05:07 - 21:29 61° 	3 154 - 211 05:06 - 21:30 61°
---	---	---

23

4 155 - 210 05:05 - 21:31 61° 	5 156 - 209 05:05 - 21:32 61° 	6 157 - 208 05:04 - 21:33 61° 	7 158 - 207 05:04 - 21:34 61° 	8 159 - 206 05:03 - 21:35 61° 	9 160 - 205 05:03 - 21:36 61° 	10 161 - 204 05:02 - 21:37 61°
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24

11 162 - 203 05:02 - 21:37 61° 	12 163 - 202 05:02 - 21:38 61° 	13 164 - 201 05:01 - 21:39 62° 	14 165 - 200 05:01 - 21:39 62° 	15 166 - 199 05:01 - 21:40 62° 	16 167 - 198 05:01 - 21:40 62° 	17 168 - 197 05:01 - 21:41 62°
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25

18 169 - 196 05:01 - 21:41 62° 	19 170 - 195 05:01 - 21:41 62° 	20 171 - 194 05:01 - 21:42 62° 	21 172 - 193 05:01 - 21:42 62° 	22 173 - 192 05:02 - 21:42 62° 	23 174 - 191 05:02 - 21:42 62° 	24 175 - 190 05:02 - 21:42 62°
--	--	--	--	--	--	--

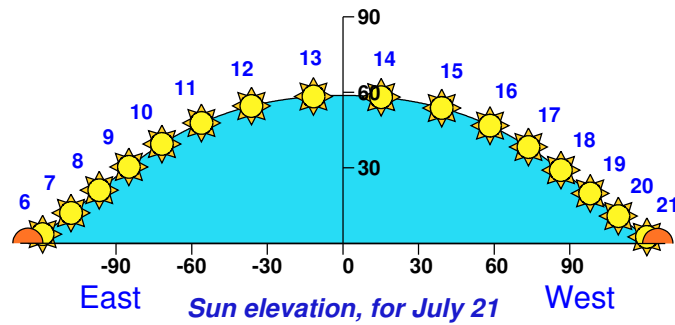
26

25 176 - 189 05:03 - 21:42 62° 	26 177 - 188 05:03 - 21:42 62° 	27 178 - 187 05:03 - 21:42 62° 	28 179 - 186 05:04 - 21:42 62° 	29 180 - 185 05:05 - 21:42 62° 	30 181 - 184 05:05 - 21:41 61°
--	--	--	--	--	--

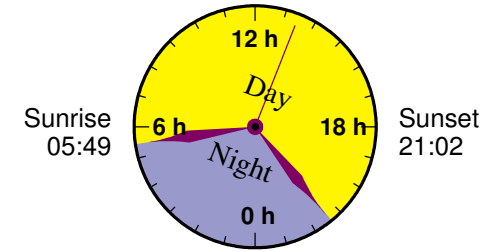
July 2018

Katlenburg-Lindau

10.099°E, 51.682°N



Sunrise and Sunset at Katlenburg-Lindau (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

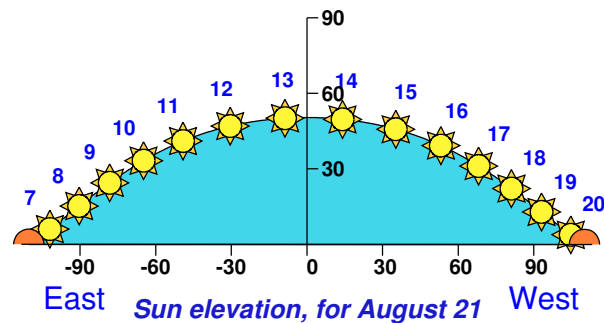
28

29

30

31

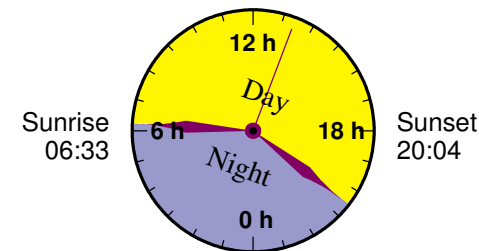
						1 182 - 183 05:06 - 21:41 61°
2 183 - 182 05:07 - 21:41 61° 	3 184 - 181 05:07 - 21:40 61° 	4 185 - 180 05:08 - 21:40 61° 	5 186 - 179 05:09 - 21:39 61° 	6 187 - 178 05:10 - 21:39 61° 	7 188 - 177 05:11 - 21:38 61° 	8 189 - 176 05:12 - 21:38 61°
9 190 - 175 05:13 - 21:37 61° 	10 191 - 174 05:14 - 21:36 61° 	11 192 - 173 05:15 - 21:35 60° 	12 193 - 172 05:16 - 21:34 60° 	13 194 - 171 05:17 - 21:34 60° 	14 195 - 170 05:18 - 21:33 60° 	15 196 - 169 05:19 - 21:32 60°
16 197 - 168 05:20 - 21:31 60° 	17 198 - 167 05:22 - 21:30 59° 	18 199 - 166 05:23 - 21:28 59° 	19 200 - 165 05:24 - 21:27 59° 	20 201 - 164 05:25 - 21:26 59° 	21 202 - 163 05:27 - 21:25 59° 	22 203 - 162 05:28 - 21:24 59°
23 204 - 161 05:29 - 21:22 58° 	24 205 - 160 05:31 - 21:21 58° 	25 206 - 159 05:32 - 21:19 58° 	26 207 - 158 05:34 - 21:18 58° 	27 208 - 157 05:35 - 21:17 57° 	28 209 - 156 05:37 - 21:15 57° 	29 210 - 155 05:38 - 21:13 57°
30 211 - 154 05:40 - 21:12 57° 	31 212 - 153 05:41 - 21:10 57° 					



August 2018

Katlenburg-Lindau

10.099°E, 51.682°N



Duration of the day, for August 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

31

32

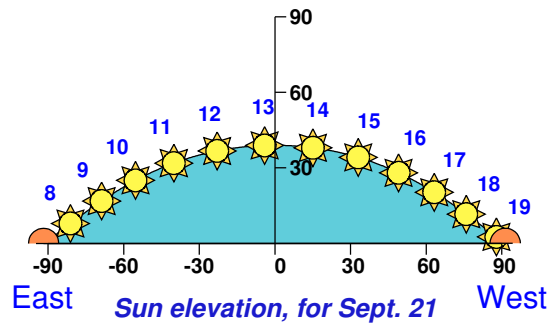
33

34

35

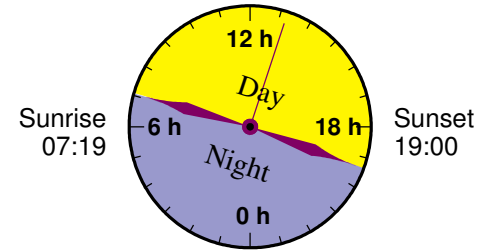
		1 213 - 152 05:43 - 21:09 56° 	2 214 - 151 05:44 - 21:07 56° 	3 215 - 150 05:46 - 21:05 56° 	4 216 - 149 05:47 - 21:04 56° 	5 217 - 148 05:49 - 21:02 55°
	6 218 - 147 05:50 - 21:00 55° 	7 219 - 146 05:52 - 20:58 55° 	8 220 - 145 05:53 - 20:56 54° 	9 221 - 144 05:55 - 20:55 54° 	10 222 - 143 05:57 - 20:53 54° 	11 223 - 142 05:58 - 20:51 54°
	13 225 - 140 06:01 - 20:47 53° 	14 226 - 139 06:03 - 20:45 53° 	15 227 - 138 06:04 - 20:43 52° 	16 228 - 137 06:06 - 20:41 52° 	17 229 - 136 06:08 - 20:39 52° 	18 230 - 135 06:09 - 20:37 51°
	20 232 - 133 06:12 - 20:33 51° 	21 233 - 132 06:14 - 20:31 50° 	22 234 - 131 06:16 - 20:29 50° 	23 235 - 130 06:17 - 20:26 50° 	24 236 - 129 06:19 - 20:24 49° 	25 237 - 128 06:21 - 20:22 49°
	27 239 - 126 06:24 - 20:18 48° 	28 240 - 125 06:25 - 20:16 48° 	29 241 - 124 06:27 - 20:13 48° 	30 242 - 123 06:29 - 20:11 47° 	31 243 - 122 06:30 - 20:09 47° 	

September 2018



Katlenburg-Lindau

10.099°E, 51.682°N



Duration of the day, for September 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

35

36

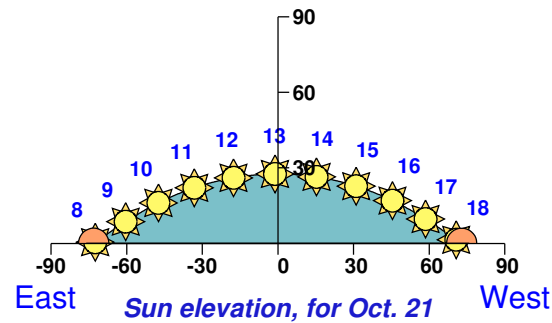
37

38

39

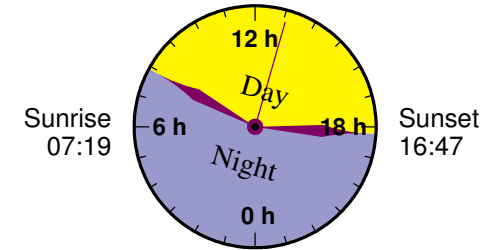
1 244 - 121 06:32 - 20:07 47° 	2 245 - 120 06:33 - 20:04 46°
3 246 - 119 06:35 - 20:02 46° 	4 247 - 118 06:37 - 20:00 45°
5 248 - 117 06:38 - 19:58 45° 	6 249 - 116 06:40 - 19:55 45°
7 250 - 115 06:41 - 19:53 44° 	8 251 - 114 06:43 - 19:51 44°
9 252 - 113 06:45 - 19:49 44° 	10 253 - 112 06:46 - 19:46 43°
11 254 - 111 06:48 - 19:44 43° 	12 255 - 110 06:49 - 19:42 42°
13 256 - 109 06:51 - 19:39 42° 	14 257 - 108 06:53 - 19:37 42°
15 258 - 107 06:54 - 19:35 41° 	16 259 - 106 06:56 - 19:32 41°
17 260 - 105 06:57 - 19:30 41° 	18 261 - 104 06:59 - 19:28 40°
19 262 - 103 07:01 - 19:25 40° 	20 263 - 102 07:02 - 19:23 39°
21 264 - 101 07:04 - 19:21 39° 	22 265 - 100 07:06 - 19:18 39°
23 266 - 99 07:07 - 19:16 38° 	24 267 - 98 07:09 - 19:14 38°
25 268 - 97 07:10 - 19:12 37° 	26 269 - 96 07:12 - 19:09 37°
27 270 - 95 07:14 - 19:07 37° 	28 271 - 94 07:15 - 19:05 36°
29 272 - 93 07:17 - 19:02 36° 	30 273 - 92 07:19 - 19:00 35°

October 2018



Katlenburg-Lindau

10.099°E, 51.682°N



Duration of the day, for October 21

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

Time change October 28

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

40

1 274 - 91
07:20 - 18:58 35°

2 275 - 90
07:22 - 18:55 35°

3 276 - 89
07:24 - 18:53 34°

4 277 - 88
07:25 - 18:51 34°

5 278 - 87
07:27 - 18:49 34°

6 279 - 86
07:28 - 18:46 33°

7 280 - 85
07:30 - 18:44 33°

41

8 281 - 84
07:32 - 18:42 32°

9 282 - 83
07:34 - 18:40 32°

10 283 - 82
07:35 - 18:37 32°

11 284 - 81
07:37 - 18:35 31°

12 285 - 80
07:39 - 18:33 31°

13 286 - 79
07:40 - 18:31 31°

14 287 - 78
07:42 - 18:29 30°

42

15 288 - 77
07:44 - 18:27 30°

16 289 - 76
07:45 - 18:24 29°

17 290 - 75
07:47 - 18:22 29°

18 291 - 74
07:49 - 18:20 29°

19 292 - 73
07:51 - 18:18 28°

20 293 - 72
07:52 - 18:16 28°

21 294 - 71
07:54 - 18:14 28°

43

22 295 - 70
07:56 - 18:12 27°

23 296 - 69
07:58 - 18:10 27°

24 297 - 68
07:59 - 18:08 27°

25 298 - 67
08:01 - 18:06 26°

26 299 - 66
08:03 - 18:04 26°

27 300 - 65
08:05 - 18:02 26°

28 301 - 64
07:06 - 17:00 25°

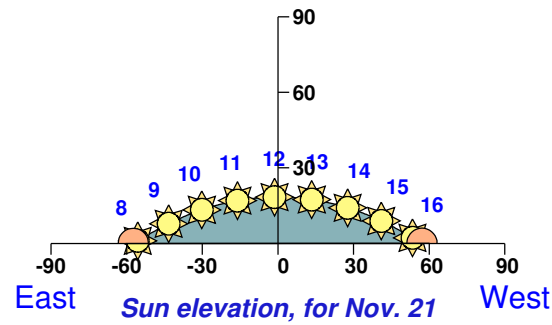
44

29 302 - 63
07:08 - 16:58 25°

30 303 - 62
07:10 - 16:56 25°

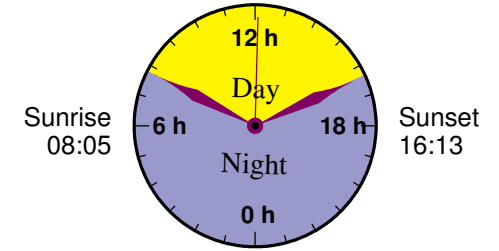
31 304 - 61
07:12 - 16:54 24°

November 2018



Katlenburg-Lindau

10.099°E, 51.682°N



Duration of the day, for November 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

44

1 305 - 60 07:13 - 16:53 24° 	2 306 - 59 07:15 - 16:51 24° 	3 307 - 58 07:17 - 16:49 23° 	4 308 - 57 07:19 - 16:47 23°
--	--	--	--

45

5 309 - 56 07:21 - 16:45 23° 	6 310 - 55 07:22 - 16:44 22° 	7 311 - 54 07:24 - 16:42 22° 	8 312 - 53 07:26 - 16:40 22° 	9 313 - 52 07:28 - 16:39 21° 	10 314 - 51 07:29 - 16:37 21° 	11 315 - 50 07:31 - 16:36 21°
--	--	--	--	--	---	---

46

12 316 - 49 07:33 - 16:34 21° 	13 317 - 48 07:35 - 16:33 20° 	14 318 - 47 07:36 - 16:31 20° 	15 319 - 46 07:38 - 16:30 20° 	16 320 - 45 07:40 - 16:29 20° 	17 321 - 44 07:42 - 16:27 19° 	18 322 - 43 07:43 - 16:26 19°
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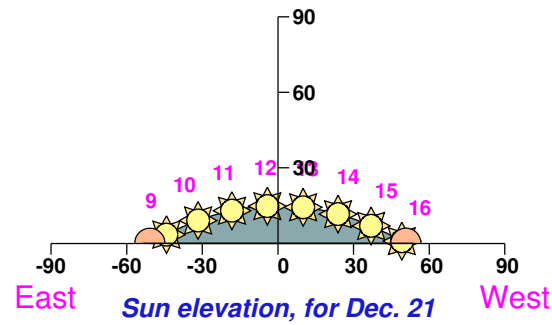
47

19 323 - 42 07:45 - 16:25 19° 	20 324 - 41 07:47 - 16:24 19° 	21 325 - 40 07:48 - 16:22 18° 	22 326 - 39 07:50 - 16:21 18° 	23 327 - 38 07:52 - 16:20 18° 	24 328 - 37 07:53 - 16:19 18° 	25 329 - 36 07:55 - 16:18 18°
---	---	---	---	---	---	---

48

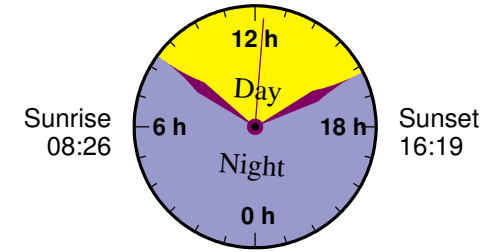
26 330 - 35 07:56 - 16:17 17° 	27 331 - 34 07:58 - 16:16 17° 	28 332 - 33 07:59 - 16:16 17° 	29 333 - 32 08:01 - 16:15 17° 	30 334 - 31 08:02 - 16:14 17°
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December 2018



Katlenburg-Lindau

10.099°E, 51.682°N



Duration of the day, for December 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

48

49

50

51

52

53

1 335 - 30 08:04 - 16:14 17°	2 336 - 29 08:05 - 16:13 16°
3 337 - 28 08:06 - 16:12 16°	4 338 - 27 08:08 - 16:12 16°
5 339 - 26 08:09 - 16:11 16°	6 340 - 25 08:10 - 16:11 16°
7 341 - 24 08:12 - 16:11 16°	8 342 - 23 08:13 - 16:10 16°
9 343 - 22 08:14 - 16:10 16°	10 344 - 21 08:15 - 16:10 15°
11 345 - 20 08:16 - 16:10 15°	12 346 - 19 08:17 - 16:10 15°
13 347 - 18 08:18 - 16:10 15°	14 348 - 17 08:19 - 16:10 15°
15 349 - 16 08:20 - 16:10 15°	16 350 - 15 08:21 - 16:10 15°
17 351 - 14 08:21 - 16:10 15°	18 352 - 13 08:22 - 16:11 15°
19 353 - 12 08:23 - 16:11 15°	20 354 - 11 08:23 - 16:11 15°
21 355 - 10 08:24 - 16:12 15°	22 356 - 9 08:24 - 16:12 15°
23 357 - 8 08:25 - 16:13 15°	24 358 - 7 08:25 - 16:13 15°
25 359 - 6 08:26 - 16:14 15°	26 360 - 5 08:26 - 16:15 15°
27 361 - 4 08:26 - 16:16 15°	28 362 - 3 08:26 - 16:16 15°
29 363 - 2 08:26 - 16:17 15°	30 364 - 1 08:26 - 16:18 15°
31 365 - 0 08:26 - 16:19 15°	