

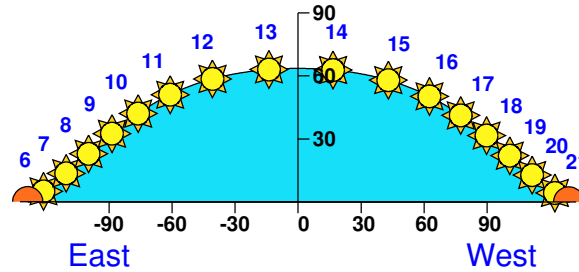
Sun Calendar 2018

Produced by *ScientiDev*
www.scientidev.fr

Darmstadt

8.65°E, 49.87°N

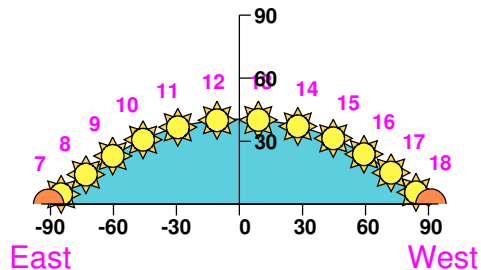
Summer



June 21

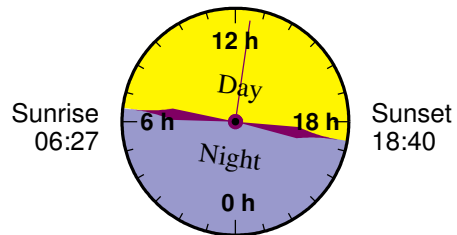


Spring



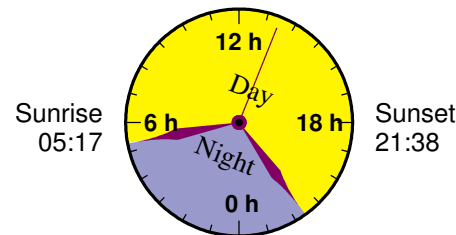
March 21

Day duration 12:13



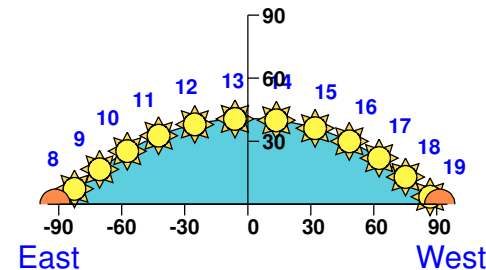
Spring Equinox

Day duration 16:21



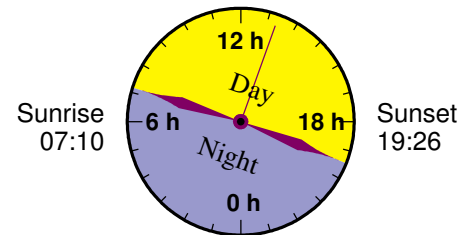
Summer Solstice

Autumn



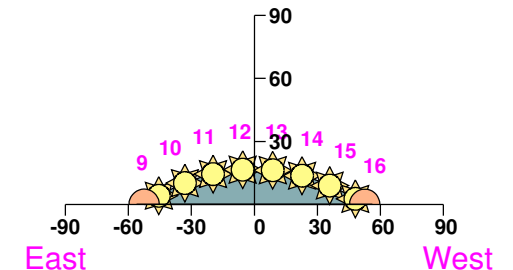
Sept. 21

Day duration 12:16



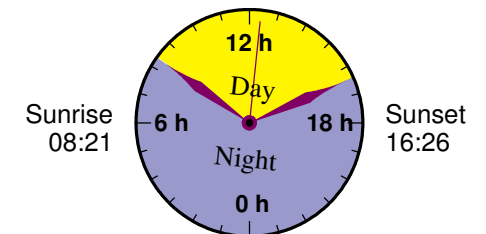
Autumn Equinox

Winter



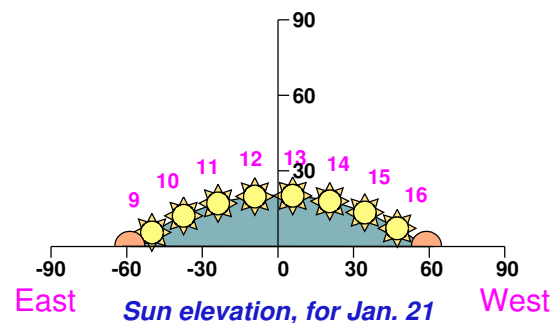
Dec. 21

Day duration 8:05



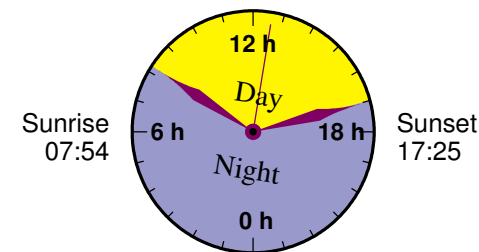
Winter Solstice

January 2018



Darmstadt

8.65°E, 49.87°N

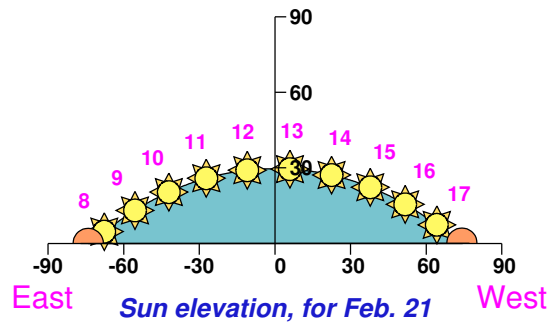


Duration of the day, for January 21

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

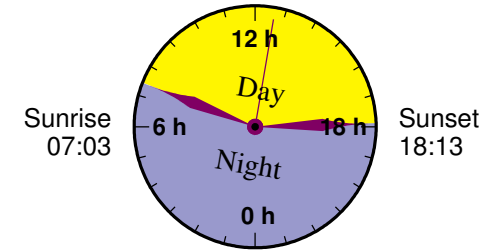
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1	1 1 - 364 08:23 - 16:35 17° 	2 2 - 363 08:23 - 16:36 17° 	3 3 - 362 08:23 - 16:37 17° 	4 4 - 361 08:23 - 16:38 17° 	5 5 - 360 08:23 - 16:39 18° 	6 6 - 359 08:23 - 16:40 18° 	7 7 - 358 08:22 - 16:42 18°
2	8 8 - 357 08:22 - 16:43 18° 	9 9 - 356 08:21 - 16:44 18° 	10 10 - 355 08:21 - 16:46 18° 	11 11 - 354 08:20 - 16:47 18° 	12 12 - 353 08:20 - 16:48 19° 	13 13 - 352 08:19 - 16:50 19° 	14 14 - 351 08:18 - 16:51 19°
3	15 15 - 350 08:18 - 16:53 19° 	16 16 - 349 08:17 - 16:54 19° 	17 17 - 348 08:16 - 16:56 19° 	18 18 - 347 08:15 - 16:57 20° 	19 19 - 346 08:14 - 16:59 20° 	20 20 - 345 08:13 - 17:00 20° 	21 21 - 344 08:12 - 17:02 20°
4	22 22 - 343 08:11 - 17:03 21° 	23 23 - 342 08:10 - 17:05 21° 	24 24 - 341 08:09 - 17:07 21° 	25 25 - 340 08:08 - 17:08 21° 	26 26 - 339 08:07 - 17:10 22° 	27 27 - 338 08:06 - 17:12 22° 	28 28 - 337 08:04 - 17:13 22°
5	29 29 - 336 08:03 - 17:15 22° 	30 30 - 335 08:02 - 17:17 23° 	31 31 - 334 08:00 - 17:18 23° 				

February 2018



Darmstadt

8.65°E, 49.87°N



Duration of the day, for February 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

5

1 32 - 333 07:59 - 17:20 23°	2 33 - 332 07:57 - 17:22 23°	3 34 - 331 07:56 - 17:23 24°	4 35 - 330 07:54 - 17:25 24°

6

5 36 - 329 07:53 - 17:27 24°	6 37 - 328 07:51 - 17:29 25°	7 38 - 327 07:50 - 17:30 25°	8 39 - 326 07:48 - 17:32 25°	9 40 - 325 07:46 - 17:34 26°	10 41 - 324 07:45 - 17:35 26°	11 42 - 323 07:43 - 17:37 26°

7

12 43 - 322 07:41 - 17:39 27°	13 44 - 321 07:40 - 17:41 27°	14 45 - 320 07:38 - 17:42 27°	15 46 - 319 07:36 - 17:44 28°	16 47 - 318 07:34 - 17:46 28°	17 48 - 317 07:32 - 17:47 28°	18 49 - 316 07:31 - 17:49 29°

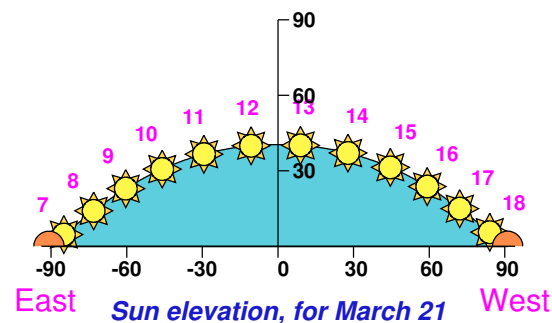
8

19 50 - 315 07:29 - 17:51 29°	20 51 - 314 07:27 - 17:53 29°	21 52 - 313 07:25 - 17:54 30°	22 53 - 312 07:23 - 17:56 30°	23 54 - 311 07:21 - 17:58 30°	24 55 - 310 07:19 - 17:59 31°	25 56 - 309 07:17 - 18:01 31°

9

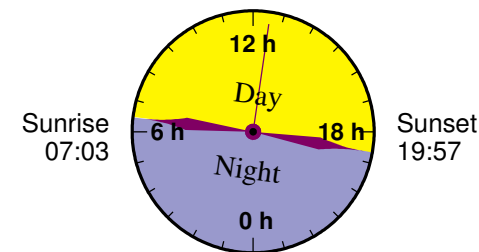
26 57 - 308 07:15 - 18:03 32°	27 58 - 307 07:13 - 18:04 32°	28 59 - 306 07:11 - 18:06 32°

March 2018



Darmstadt

8.65°E, 49.87°N



Duration of the day, for March 21

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

Time change March 25

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

9

1 60 - 305
07:09 - 18:08 33°

2 61 - 304
07:07 - 18:09 33°

3 62 - 303
07:05 - 18:11 33°

4 63 - 302
07:03 - 18:13 34°

10

5 64 - 301
07:01 - 18:14 34°

6 65 - 300
06:59 - 18:16 35°

7 66 - 299
06:57 - 18:17 35°

8 67 - 298
06:55 - 18:19 35°

9 68 - 297
06:52 - 18:21 36°

10 69 - 296
06:50 - 18:22 36°

11 70 - 295
06:48 - 18:24 37°

11

12 71 - 294
06:46 - 18:26 37°

13 72 - 293
06:44 - 18:27 37°

14 73 - 292
06:42 - 18:29 38°

15 74 - 291
06:40 - 18:30 38°

16 75 - 290
06:37 - 18:32 38°

17 76 - 289
06:35 - 18:34 39°

18 77 - 288
06:33 - 18:35 39°

12

19 78 - 287
06:31 - 18:37 40°

20 79 - 286
06:29 - 18:38 40°

21 80 - 285
06:27 - 18:40 40°

22 81 - 284
06:24 - 18:41 41°

23 82 - 283
06:22 - 18:43 41°

24 83 - 282
06:20 - 18:45 42°

25 84 - 281
07:18 - 19:46 42°

13

26 85 - 280
07:16 - 19:48 42°

27 86 - 279
07:14 - 19:49 43°

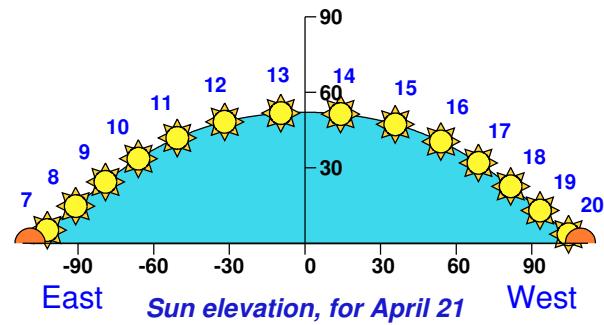
28 87 - 278
07:11 - 19:51 43°

29 88 - 277
07:09 - 19:52 44°

30 89 - 276
07:07 - 19:54 44°

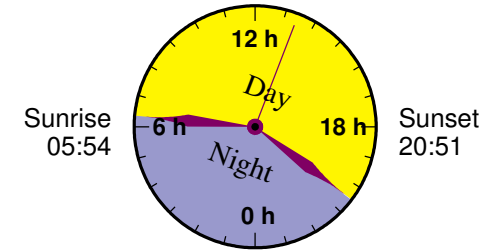
31 90 - 275
07:05 - 19:56 44°

April 2018



Darmstadt

8.65°E, 49.87°N



Duration of the day, for April 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

13

14

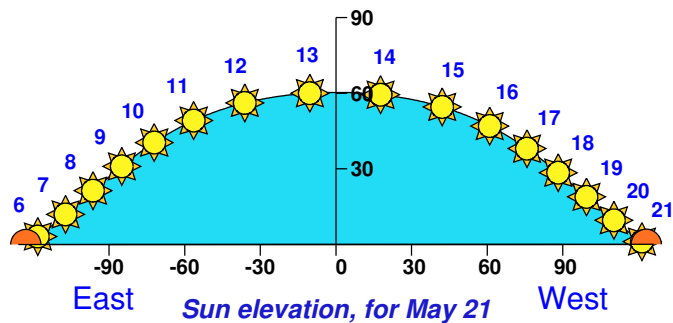
15

16

17

18

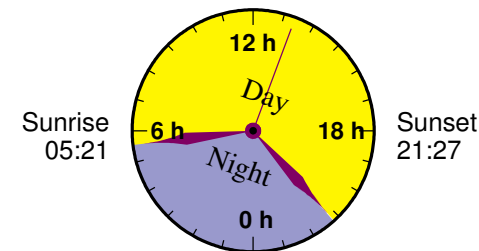
						191 - 274 07:03 - 19:57 45°
292 - 273 07:01 - 19:59 45°	393 - 272 06:59 - 20:00 46°	494 - 271 06:56 - 20:02 46°	595 - 270 06:54 - 20:03 46°	696 - 269 06:52 - 20:05 47°	797 - 268 06:50 - 20:06 47°	898 - 267 06:48 - 20:08 47°
999 - 266 06:46 - 20:10 48°	10100 - 265 06:44 - 20:11 48°	11101 - 264 06:42 - 20:13 49°	12102 - 263 06:39 - 20:14 49°	13103 - 262 06:37 - 20:16 49°	14104 - 261 06:35 - 20:17 50°	15105 - 260 06:33 - 20:19 50°
16106 - 259 06:31 - 20:21 50°	17107 - 258 06:29 - 20:22 51°	18108 - 257 06:27 - 20:24 51°	19109 - 256 06:25 - 20:25 51°	20110 - 255 06:23 - 20:27 52°	21111 - 254 06:21 - 20:28 52°	22112 - 253 06:19 - 20:30 52°
23113 - 252 06:17 - 20:31 53°	24114 - 251 06:16 - 20:33 53°	25115 - 250 06:14 - 20:34 53°	26116 - 249 06:12 - 20:36 54°	27117 - 248 06:10 - 20:38 54°	28118 - 247 06:08 - 20:39 54°	29119 - 246 06:06 - 20:41 55°
30120 - 245 06:04 - 20:42 55°						



May 2018

Darmstadt

8.65°E, 49.87°N



Duration of the day, for May 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

18

1 121 - 244
06:03 - 20:44 55°

2 122 - 243
06:01 - 20:45 56°

3 123 - 242
05:59 - 20:47 56°

4 124 - 241
05:57 - 20:48 56°

5 125 - 240
05:56 - 20:50 56°

6 126 - 239
05:54 - 20:51 57°

19

7 127 - 238
05:52 - 20:53 57°

8 128 - 237
05:51 - 20:54 57°

9 129 - 236
05:49 - 20:56 58°

10 130 - 235
05:48 - 20:57 58°

11 131 - 234
05:46 - 20:59 58°

12 132 - 233
05:45 - 21:00 58°

13 133 - 232
05:43 - 21:02 59°

20

14 134 - 231
05:42 - 21:03 59°

15 135 - 230
05:40 - 21:04 59°

16 136 - 229
05:39 - 21:06 59°

17 137 - 228
05:38 - 21:07 60°

18 138 - 227
05:36 - 21:08 60°

19 139 - 226
05:35 - 21:10 60°

20 140 - 225
05:34 - 21:11 60°

21

21 141 - 224
05:33 - 21:12 60°

22 142 - 223
05:32 - 21:14 61°

23 143 - 222
05:30 - 21:15 61°

24 144 - 221
05:29 - 21:16 61°

25 145 - 220
05:28 - 21:17 61°

26 146 - 219
05:27 - 21:19 61°

27 147 - 218
05:26 - 21:20 61°

22

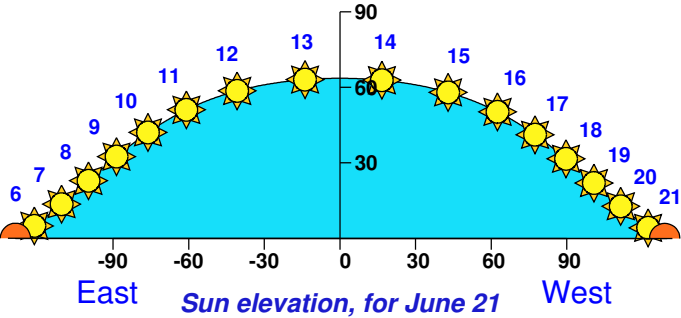
28 148 - 217
05:25 - 21:21 62°

29 149 - 216
05:25 - 21:22 62°

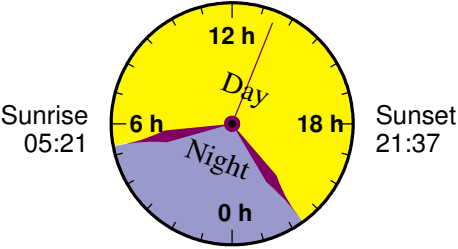
30 150 - 215
05:24 - 21:23 62°

31 151 - 214
05:23 - 21:24 62°

June 2018



Darmstadt
8.65°E, 49.87°N



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

Duration of the day, for June 21

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

22

1 152 - 213 05:22 - 21:25 62° 	2 153 - 212 05:21 - 21:26 62° 	3 154 - 211 05:21 - 21:27 62°
---	---	---

23

4 155 - 210 05:20 - 21:28 63° 	5 156 - 209 05:20 - 21:29 63° 	6 157 - 208 05:19 - 21:30 63° 	7 158 - 207 05:19 - 21:31 63° 	8 159 - 206 05:18 - 21:31 63° 	9 160 - 205 05:18 - 21:32 63° 	10 161 - 204 05:17 - 21:33 63°
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24

11 162 - 203 05:17 - 21:34 63° 	12 163 - 202 05:17 - 21:34 63° 	13 164 - 201 05:17 - 21:35 63° 	14 165 - 200 05:17 - 21:35 63° 	15 166 - 199 05:16 - 21:36 63° 	16 167 - 198 05:16 - 21:36 63° 	17 168 - 197 05:16 - 21:37 64°
--	--	--	--	--	--	--

25

18 169 - 196 05:16 - 21:37 64° 	19 170 - 195 05:17 - 21:37 64° 	20 171 - 194 05:17 - 21:38 64° 	21 172 - 193 05:17 - 21:38 64° 	22 173 - 192 05:17 - 21:38 64° 	23 174 - 191 05:17 - 21:38 64° 	24 175 - 190 05:18 - 21:38 64°
--	--	--	--	--	--	--

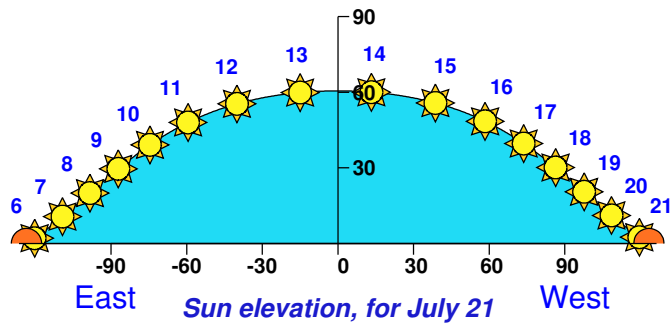
26

25 176 - 189 05:18 - 21:38 64° 	26 177 - 188 05:18 - 21:38 63° 	27 178 - 187 05:19 - 21:38 63° 	28 179 - 186 05:19 - 21:38 63° 	29 180 - 185 05:20 - 21:38 63° 	30 181 - 184 05:21 - 21:38 63°
--	--	--	--	--	--

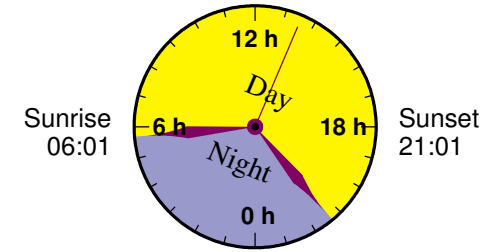
July 2018

Darmstadt

8.65°E, 49.87°N



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



Duration of the day, for July 21

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

26

27

28

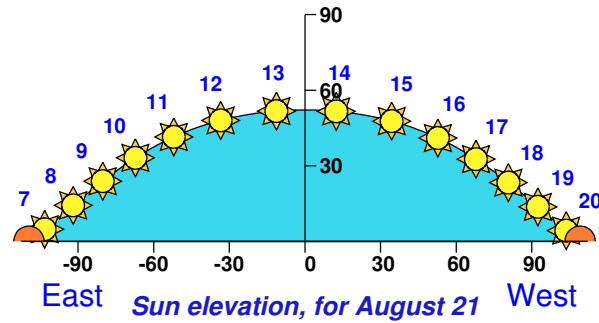
29

30

31

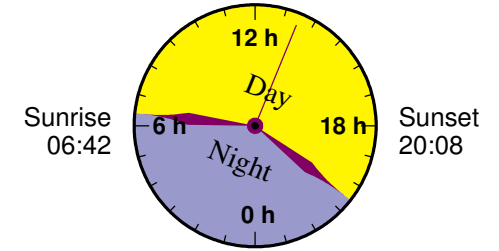
						1 182 - 183 05:21 - 21:37 63°
2 183 - 182 05:22 - 21:37 63° 	3 184 - 181 05:22 - 21:37 63° 	4 185 - 180 05:23 - 21:36 63° 	5 186 - 179 05:24 - 21:36 63° 	6 187 - 178 05:25 - 21:35 63° 	7 188 - 177 05:26 - 21:35 63° 	8 189 - 176 05:27 - 21:34 63°
9 190 - 175 05:27 - 21:34 62° 	10 191 - 174 05:28 - 21:33 62° 	11 192 - 173 05:29 - 21:32 62° 	12 193 - 172 05:30 - 21:31 62° 	13 194 - 171 05:31 - 21:31 62° 	14 195 - 170 05:32 - 21:30 62° 	15 196 - 169 05:34 - 21:29 62°
16 197 - 168 05:35 - 21:28 61° 	17 198 - 167 05:36 - 21:27 61° 	18 199 - 166 05:37 - 21:26 61° 	19 200 - 165 05:38 - 21:25 61° 	20 201 - 164 05:39 - 21:24 61° 	21 202 - 163 05:41 - 21:23 61° 	22 203 - 162 05:42 - 21:22 60°
23 204 - 161 05:43 - 21:20 60° 	24 205 - 160 05:44 - 21:19 60° 	25 206 - 159 05:46 - 21:18 60° 	26 207 - 158 05:47 - 21:16 60° 	27 208 - 157 05:48 - 21:15 59° 	28 209 - 156 05:50 - 21:14 59° 	29 210 - 155 05:51 - 21:12 59°
30 211 - 154 05:52 - 21:11 59° 	31 212 - 153 05:54 - 21:09 58° 					

August 2018



Darmstadt

8.65°E, 49.87°N



Duration of the day, for August 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

31

32

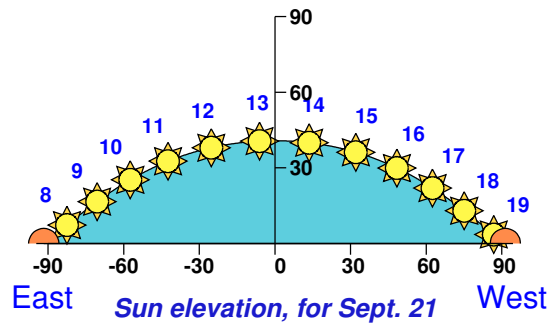
33

34

35

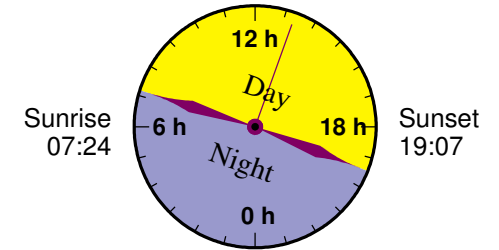
1 213 - 152 05:55 - 21:08 58°	2 214 - 151 05:57 - 21:06 58°	3 215 - 150 05:58 - 21:05 58°	4 216 - 149 05:59 - 21:03 57°	5 217 - 148 06:01 - 21:01 57°
8 220 - 145 06:05 - 20:56 56°	9 221 - 144 06:07 - 20:55 56°	10 222 - 143 06:08 - 20:53 56°	11 223 - 142 06:09 - 20:51 55°	12 224 - 141 06:11 - 20:49 55°
15 227 - 138 06:15 - 20:44 54°	16 228 - 137 06:17 - 20:42 54°	17 229 - 136 06:18 - 20:40 53°	18 230 - 135 06:20 - 20:38 53°	19 231 - 134 06:21 - 20:36 53°
22 234 - 131 06:26 - 20:30 52°	23 235 - 130 06:27 - 20:28 52°	24 236 - 129 06:29 - 20:26 51°	25 237 - 128 06:30 - 20:24 51°	26 238 - 127 06:32 - 20:22 50°
29 241 - 124 06:36 - 20:16 49°	30 242 - 123 06:38 - 20:14 49°	31 243 - 122 06:39 - 20:12 49°		

September 2018



Darmstadt

8.65°E, 49.87°N



Duration of the day, for September 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

35

36

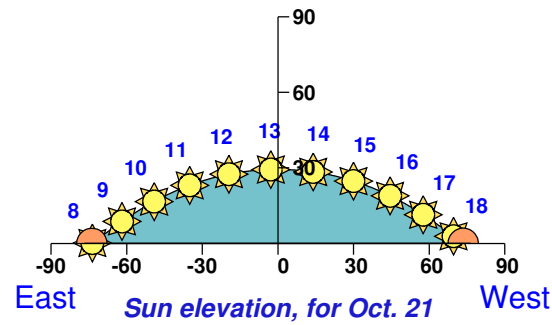
37

38

39

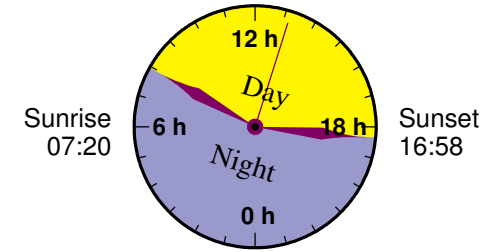
1 244 - 121 06:40 - 20:10 48° 	2 245 - 120 06:42 - 20:08 48°
3 246 - 119 06:43 - 20:05 48° 	4 247 - 118 06:45 - 20:03 47°
5 248 - 117 06:46 - 20:01 47° 	6 249 - 116 06:48 - 19:59 47°
7 250 - 115 06:49 - 19:57 46° 	8 251 - 114 06:51 - 19:55 46°
9 252 - 113 06:52 - 19:53 45° 	10 253 - 112 06:54 - 19:50 45°
11 254 - 111 06:55 - 19:48 45° 	12 255 - 110 06:57 - 19:46 44°
13 256 - 109 06:58 - 19:44 44° 	14 257 - 108 07:00 - 19:42 43°
15 258 - 107 07:01 - 19:39 43° 	16 259 - 106 07:03 - 19:37 43°
17 260 - 105 07:04 - 19:35 42° 	18 261 - 104 07:06 - 19:33 42°
19 262 - 103 07:07 - 19:31 42° 	20 263 - 102 07:09 - 19:28 41°
21 264 - 101 07:10 - 19:26 41° 	22 265 - 100 07:12 - 19:24 40°
23 266 - 99 07:13 - 19:22 40° 	24 267 - 98 07:15 - 19:20 40°
25 268 - 97 07:16 - 19:17 39° 	26 269 - 96 07:18 - 19:15 39°
27 270 - 95 07:19 - 19:13 38° 	28 271 - 94 07:21 - 19:11 38°
29 272 - 93 07:22 - 19:09 38° 	30 273 - 92 07:24 - 19:07 37°

October 2018



Darmstadt

8.65°E, 49.87°N



Duration of the day, for October 21

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

Time change October 28

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

40

1 274 - 91
07:25 - 19:04 37°

2 275 - 90
07:27 - 19:02 36°

3 276 - 89
07:28 - 19:00 36°

4 277 - 88
07:30 - 18:58 36°

5 278 - 87
07:31 - 18:56 35°

6 279 - 86
07:33 - 18:54 35°

7 280 - 85
07:34 - 18:52 35°

41

8 281 - 84
07:36 - 18:49 34°

9 282 - 83
07:38 - 18:47 34°

10 283 - 82
07:39 - 18:45 33°

11 284 - 81
07:41 - 18:43 33°

12 285 - 80
07:42 - 18:41 33°

13 286 - 79
07:44 - 18:39 32°

14 287 - 78
07:45 - 18:37 32°

42

15 288 - 77
07:47 - 18:35 32°

16 289 - 76
07:49 - 18:33 31°

17 290 - 75
07:50 - 18:31 31°

18 291 - 74
07:52 - 18:29 30°

19 292 - 73
07:53 - 18:27 30°

20 293 - 72
07:55 - 18:25 30°

21 294 - 71
07:57 - 18:23 29°

43

22 295 - 70
07:58 - 18:21 29°

23 296 - 69
08:00 - 18:19 29°

24 297 - 68
08:01 - 18:17 28°

25 298 - 67
08:03 - 18:15 28°

26 299 - 66
08:05 - 18:14 28°

27 300 - 65
08:06 - 18:12 27°

28 301 - 64
07:08 - 17:10 27°

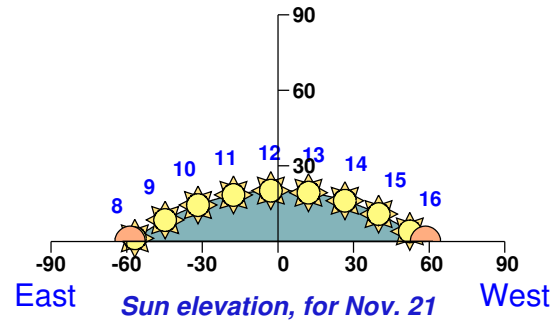
44

29 302 - 63
07:10 - 17:08 27°

30 303 - 62
07:11 - 17:06 26°

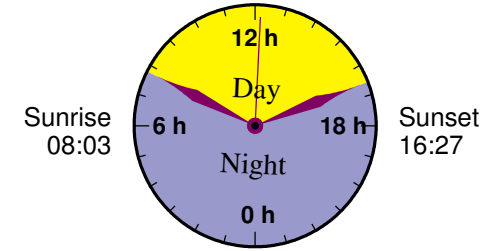
31 304 - 61
07:13 - 17:05 26°

November 2018



Darmstadt

8.65°E, 49.87°N



Duration of the day, for November 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

44

45

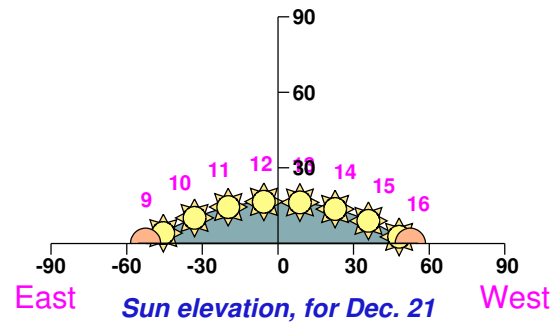
46

47

48

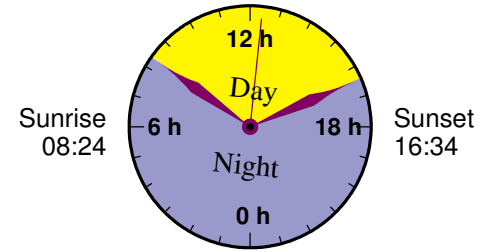
			1 305 - 60 07:15 - 17:03 26° 	2 306 - 59 07:16 - 17:01 25° 	3 307 - 58 07:18 - 17:00 25° 	4 308 - 57 07:20 - 16:58 25°
	5 309 - 56 07:21 - 16:56 24° 	6 310 - 55 07:23 - 16:55 24° 	7 311 - 54 07:25 - 16:53 24° 	8 312 - 53 07:26 - 16:52 24° 	9 313 - 52 07:28 - 16:50 23° 	10 314 - 51 07:30 - 16:49 23°
	12 316 - 49 07:33 - 16:46 22° 	13 317 - 48 07:34 - 16:45 22° 	14 318 - 47 07:36 - 16:43 22° 	15 319 - 46 07:38 - 16:42 22° 	16 320 - 45 07:39 - 16:41 21° 	17 321 - 44 07:41 - 16:40 21°
	19 323 - 42 07:44 - 16:37 21° 	20 324 - 41 07:46 - 16:36 20° 	21 325 - 40 07:47 - 16:35 20° 	22 326 - 39 07:49 - 16:34 20° 	23 327 - 38 07:50 - 16:33 20° 	24 328 - 37 07:52 - 16:32 20°
	26 330 - 35 07:55 - 16:31 19° 	27 331 - 34 07:56 - 16:30 19° 	28 332 - 33 07:57 - 16:29 19° 	29 333 - 32 07:59 - 16:28 19° 	30 334 - 31 08:00 - 16:28 19° 	

December 2018



Darmstadt

8.65°E, 49.87°N



Duration of the day, for December 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

48

49

50

51

52

53

1 335 - 30 08:02 - 16:27 18° 	2 336 - 29 08:03 - 16:27 18°
3 337 - 28 08:04 - 16:26 18° 	4 338 - 27 08:05 - 16:26 18°
5 339 - 26 08:07 - 16:25 18° 	6 340 - 25 08:08 - 16:25 18°
7 341 - 24 08:09 - 16:25 18° 	8 342 - 23 08:10 - 16:25 17°
9 343 - 22 08:11 - 16:24 17° 	10 344 - 21 08:12 - 16:24 17°
11 345 - 20 08:13 - 16:24 17° 	12 346 - 19 08:14 - 16:24 17°
13 347 - 18 08:15 - 16:24 17° 	14 348 - 17 08:16 - 16:24 17°
15 349 - 16 08:17 - 16:24 17° 	16 350 - 15 08:18 - 16:25 17°
17 351 - 14 08:18 - 16:25 17° 	18 352 - 13 08:19 - 16:25 17°
19 353 - 12 08:20 - 16:26 17° 	20 354 - 11 08:20 - 16:26 17°
21 355 - 10 08:21 - 16:26 17° 	22 356 - 9 08:21 - 16:27 17°
23 357 - 8 08:22 - 16:27 17° 	24 358 - 7 08:22 - 16:28 17°
25 359 - 6 08:22 - 16:29 17° 	26 360 - 5 08:23 - 16:29 17°
27 361 - 4 08:23 - 16:30 17° 	28 362 - 3 08:23 - 16:31 17°
29 363 - 2 08:23 - 16:32 17° 	30 364 - 1 08:23 - 16:33 17°

31 365 - 0 08:24 - 16:34 17°
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