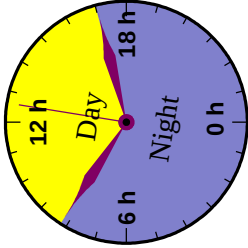
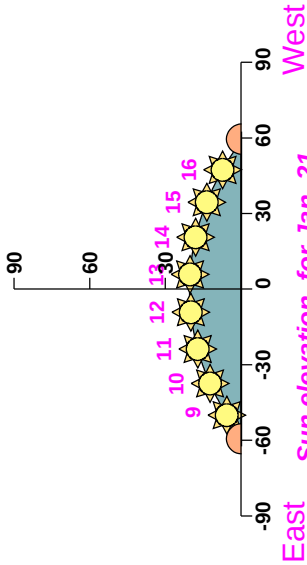


January 2013

Darmstadt
8.65°E, 49.87°N



Pink Sun elevation, for Jan. 21

Purple Duration of the day, for January 21

Sunrise and Sunset at Darmstadt (TL ± 1 mn)

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

1

7	7 - 358 08:22 - 16:42	8:19	+1 m.	18°
14	14 - 351 08:18 - 16:51	8:33	+3 m.	19°

2

8	8 - 357 08:22 - 16:43	8:21	+2 m.	18°
15	15 - 350 08:18 - 16:53	8:35	+2 m.	19°

3

9	9 - 356 08:21 - 16:45	8:23	+2 m.	18°
16	16 - 349 08:17 - 16:54	8:37	+2 m.	19°

4

10	10 - 355 08:21 - 16:46	8:25	+2 m.	18°
17	17 - 348 08:16 - 16:56	8:40	+3 m.	20°

5

11	11 - 354 08:20 - 16:47	8:27	+2 m.	18°
18	18 - 347 08:15 - 16:57	8:42	+2 m.	20°

12	12 - 353 08:20 - 16:49	8:28	+1 m.	19°
19	19 - 346 08:14 - 16:59	8:44	+2 m.	20°

13	13 - 352 08:19 - 16:50	8:30	+2 m.	19°
20	20 - 345 08:13 - 17:01	8:47	+3 m.	20°

21	21 - 344 08:12 - 17:02	8:49	+2 m.	20°
28	28 - 337 08:04 - 17:14	9:09	+3 m.	22°

22	22 - 343 08:11 - 17:04	8:52	+3 m.	21°
29	29 - 336 08:03 - 17:15	9:12	+3 m.	22°

23	23 - 342 08:10 - 17:05	8:55	+3 m.	21°
30	30 - 335 08:01 - 17:17	9:15	+3 m.	23°

24	24 - 341 08:09 - 17:07	8:58	+3 m.	21°
31	31 - 334 08:00 - 17:19	9:18	+3 m.	23°

25	25 - 340 08:08 - 17:09	9:00	+2 m.	21°
26	26 - 339 08:07 - 17:10	9:03	+3 m.	22°

27	27 - 338 08:05 - 17:12	9:06	+3 m.	22°
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East Sun elevation for Feb. 21 West

90 60 30 0 -30 -60 -90

8 9 10 11 12 13 14 15 16 17



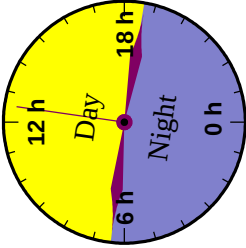
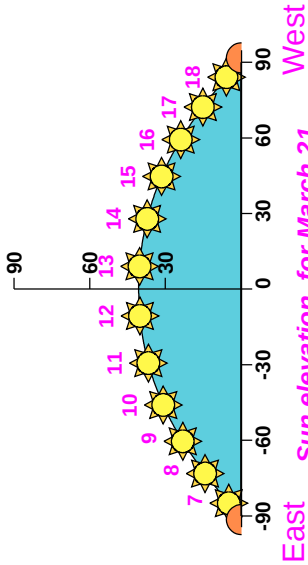
Darmstadt
8.65°E, 49.87°N

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

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
5	4 35 - 330 07:54 - 17:25 9:31 +3 m. 24°	5 36 - 329 07:53 - 17:27 9:34 +3 m. 24°	6 37 - 328 07:51 - 17:29 9:37 +3 m. 25°	7 38 - 327 07:49 - 17:31 9:41 +4 m. 25°	1 32 - 333 07:59 - 17:20 9:21 +3 m. 23°	2 33 - 332 07:57 - 17:22 9:25 +4 m. 23°	3 34 - 331 07:56 - 17:24 9:28 +3 m. 24°
6	11 42 - 323 07:43 - 17:38 9:54 +3 m. 26°	12 43 - 322 07:41 - 17:39 9:58 +4 m. 27°	13 44 - 321 07:39 - 17:41 10:02 +4 m. 27°	14 45 - 320 07:38 - 17:43 10:05 +3 m. 27°	15 46 - 319 07:36 - 17:44 10:09 +4 m. 28°	16 47 - 318 07:34 - 17:46 10:12 +3 m. 28°	17 48 - 317 07:32 - 17:48 10:16 +4 m. 28°
7	18 49 - 316 07:30 - 17:49 10:19 +3 m. 29°	19 50 - 315 07:28 - 17:51 10:23 +4 m. 29°	20 51 - 314 07:26 - 17:53 10:27 +4 m. 29°	21 52 - 313 07:25 - 17:55 10:30 +3 m. 30°	22 53 - 312 07:23 - 17:56 10:34 +4 m. 30°	23 54 - 311 07:21 - 17:58 10:37 +3 m. 30°	24 55 - 310 07:19 - 18:00 10:41 +4 m. 31°
8	25 56 - 309 07:17 - 18:01 10:45 +4 m. 31°	26 57 - 308 07:15 - 18:03 10:48 +3 m. 32°	27 58 - 307 07:13 - 18:05 10:52 +4 m. 32°	28 59 - 306 07:11 - 18:06 10:56 +4 m. 32°			
9							

March 2013

Darmstadt
8.65°E, 49.87°N



East Sun elevation, for March 21

West Duration of the day, for March 21

Sunrise and Sunset at Darmstadt (TL ± 1 mn)

Time change March 31

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

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
9 4 63 - 302 07:02 - 18:13 11:11 +4 m. 34°	10 5 64 - 301 07:00 - 18:15 11:14 +3 m. 34°	11 6 65 - 300 06:58 - 18:16 11:18 +4 m. 35°	12 7 66 - 299 06:56 - 18:18 11:22 +4 m. 35°	13 8 67 - 298 06:54 - 18:19 11:25 +3 m. 35°	14 9 68 - 297 06:52 - 18:21 11:29 +4 m. 36°	15 10 69 - 296 06:50 - 18:23 11:33 +4 m. 36°
16 11 70 - 295 06:48 - 18:24 11:37 +4 m. 37°	17 12 71 - 294 06:46 - 18:26 11:40 +3 m. 37°	18 13 72 - 293 06:43 - 18:27 11:44 +4 m. 37°	19 14 73 - 292 06:41 - 18:29 11:48 +4 m. 38°	20 15 74 - 291 06:39 - 18:31 11:52 +4 m. 38°	21 16 75 - 290 06:37 - 18:32 11:55 +3 m. 39°	22 17 76 - 289 06:35 - 18:34 11:59 +4 m. 39°
23 18 77 - 288 06:33 - 18:35 12:03 +4 m. 39°	24 19 78 - 287 06:31 - 18:37 12:07 +4 m. 40°	25 20 79 - 286 06:28 - 18:39 12:10 +3 m. 40°	26 21 80 - 285 06:26 - 18:40 12:14 +4 m. 41°	27 22 81 - 284 06:24 - 18:42 12:18 +4 m. 41°	28 23 82 - 283 06:22 - 18:43 12:22 +4 m. 41°	29 24 83 - 282 06:20 - 18:45 12:25 +3 m. 42°
30 25 84 - 281 06:17 - 18:46 12:29 +4 m. 42°	31 26 85 - 280 06:15 - 18:48 12:33 +4 m. 43°	32 27 86 - 279 06:13 - 18:50 12:37 +4 m. 43°	33 28 87 - 278 06:11 - 18:51 12:40 +3 m. 43°	34 29 88 - 277 06:09 - 18:53 12:44 +4 m. 44°	35 30 89 - 276 06:07 - 18:54 12:48 +4 m. 44°	36 31 90 - 275 07:04 - 19:56 12:52 +4 m. 44°

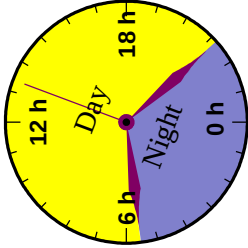
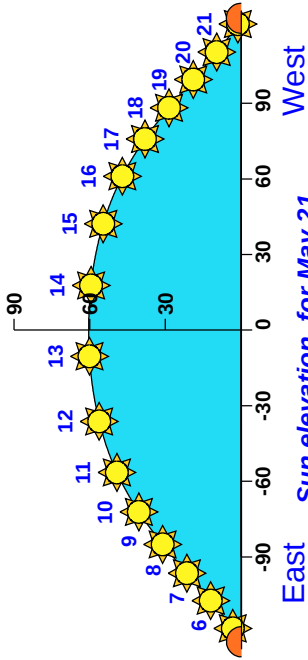
Duration of the day, for April 21

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

Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1 91 - 274 07:02 - 19:57 12:55 +3 m. 45°	2 92 - 273 07:00 - 19:59 12:59 +4 m. 45°	3 93 - 272 06:58 - 20:01 13:03 +4 m. 46°	4 94 - 271 06:56 - 20:02 13:06 +3 m. 46°	5 95 - 270 06:54 - 20:04 13:10 +4 m. 46°	6 96 - 269 06:52 - 20:05 13:14 +4 m. 47°	7 97 - 268 06:50 - 20:07 13:17 +3 m. 47°
8 98 - 267 06:47 - 20:08 13:21 +4 m. 48°	9 99 - 266 06:45 - 20:10 13:25 +4 m. 48°	10 100 - 265 06:43 - 20:11 13:28 +3 m. 48°	11 101 - 264 06:41 - 20:13 13:32 +4 m. 49°	12 102 - 263 06:39 - 20:15 13:36 +4 m. 49°	13 103 - 262 06:37 - 20:16 13:39 +3 m. 49°	14 104 - 261 06:35 - 20:18 13:43 +4 m. 50°
15 105 - 260 06:33 - 20:19 13:46 +3 m. 50°	16 106 - 259 06:31 - 20:21 13:50 +4 m. 50°	17 107 - 258 06:29 - 20:22 13:54 +4 m. 51°	18 108 - 257 06:27 - 20:24 13:57 +3 m. 51°	19 109 - 256 06:25 - 20:26 14:01 +4 m. 51°	20 110 - 255 06:23 - 20:27 14:04 +3 m. 52°	21 111 - 254 06:21 - 20:29 14:08 +4 m. 52°
22 112 - 253 06:19 - 20:30 14:11 +3 m. 52°	23 113 - 252 06:17 - 20:32 14:15 +4 m. 53°	24 114 - 251 06:15 - 20:33 14:18 +3 m. 53°	25 115 - 250 06:13 - 20:35 14:22 +4 m. 53°	26 116 - 249 06:11 - 20:36 14:25 +3 m. 54°	27 117 - 248 06:09 - 20:38 14:29 +4 m. 54°	28 118 - 247 06:08 - 20:39 14:32 +3 m. 54°
29 119 - 246 06:06 - 20:41 14:35 +3 m. 55°	30 120 - 245 06:04 - 20:43 14:39 +4 m. 55°					

May 2013

Darmstadt
8.65°E, 49.87°N



East Sun elevation, for May 21 West

Duration of the day, for May 21

Sunrise and Sunset at Darmstadt (TL ± 1 mn)

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

18

19

20

21

22

6	126 - 239 05:54 - 20:52	14:58 +3 m. 57°
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7	127 - 238 05:52 - 20:53	15:01 +3 m. 57°
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8	128 - 237 05:51 - 20:55	15:04 +3 m. 57°
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9	129 - 236 05:49 - 20:56	15:07 +3 m. 58°
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10	130 - 235 05:47 - 20:57	15:10 +3 m. 58°
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11	131 - 234 05:46 - 20:59	15:13 +3 m. 58°
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12	132 - 233 05:44 - 21:00	15:16 +3 m. 58°
----	----------------------------	-----------------

13	133 - 232 05:43 - 21:02	15:19 +3 m. 59°
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14	134 - 231 05:41 - 21:03	15:22 +3 m. 59°
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15	135 - 230 05:40 - 21:05	15:25 +3 m. 59°
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16	136 - 229 05:39 - 21:06	15:27 +2 m. 59°
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17	137 - 228 05:37 - 21:07	15:30 +3 m. 60°
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18	138 - 227 05:36 - 21:09	15:33 +3 m. 60°
----	----------------------------	-----------------

19	139 - 226 05:35 - 21:10	15:35 +2 m. 60°
----	----------------------------	-----------------

20	140 - 225 05:34 - 21:11	15:38 +3 m. 60°
----	----------------------------	-----------------

21	141 - 224 05:32 - 21:13	15:40 +2 m. 60°
----	----------------------------	-----------------

22	142 - 223 05:31 - 21:14	15:43 +3 m. 61°
----	----------------------------	-----------------

23	143 - 222 05:30 - 21:15	15:45 +2 m. 61°
----	----------------------------	-----------------

24	144 - 221 05:29 - 21:16	15:47 +2 m. 61°
----	----------------------------	-----------------

25	145 - 220 05:28 - 21:18	15:50 +3 m. 61°
----	----------------------------	-----------------

26	146 - 219 05:27 - 21:19	15:52 +2 m. 61°
----	----------------------------	-----------------

27	147 - 218 05:26 - 21:20	15:54 +2 m. 62°
----	----------------------------	-----------------

28	148 - 217 05:25 - 21:21	15:56 +2 m. 62°
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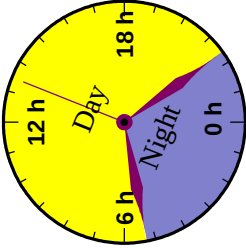
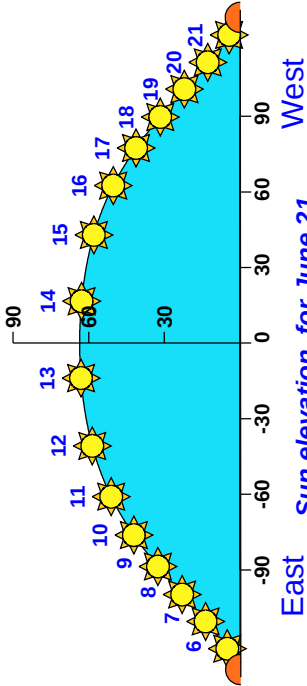
29	149 - 216 05:24 - 21:22	15:58 +2 m. 62°
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30	150 - 215 05:24 - 21:23	16:00 +2 m. 62°
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31	151 - 214 05:23 - 21:24	16:02 +2 m. 62°
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June 2013

Darmstadt
8.65°E, 49.87°N



Sun elevation, for June 21

Duration of the day, for June 21

Sunrise and Sunset at Darmstadt (TL ± 1 mn)

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

22

23

24

25

26

3	154 - 211 05:21 - 21:27	16:07	+2 m.	63°
10	161 - 204 05:17 - 21:33	16:16	+1 m.	63°

4	155 - 210 05:20 - 21:28	16:08	+1 m.	63°
11	162 - 203 05:17 - 21:34	16:17	+1 m.	63°

5	156 - 209 05:19 - 21:29	16:10	+2 m.	63°
12	163 - 202 05:17 - 21:34	16:17	+0 m.	63°

6	157 - 208 05:19 - 21:30	16:11	+1 m.	63°
13	164 - 201 05:17 - 21:35	16:18	+1 m.	63°

7	158 - 207 05:18 - 21:31	16:13	+2 m.	63°
14	165 - 200 05:17 - 21:35	16:19	+1 m.	63°

8	159 - 206 05:18 - 21:32	16:14	+1 m.	63°
15	166 - 199 05:16 - 21:36	16:20	+1 m.	63°

9	160 - 205 05:18 - 21:32	16:15	+1 m.	63°
16	167 - 198 05:16 - 21:36	16:20	+0 m.	63°

17	168 - 197 05:16 - 21:37	16:20	+0 m.	64°
24	175 - 190 05:18 - 21:38	16:21	+0 m.	64°

18	169 - 196 05:16 - 21:37	16:21	+1 m.	64°
25	176 - 189 05:18 - 21:38	16:20	-1 m.	64°

19	170 - 195 05:17 - 21:37	16:21	+0 m.	64°
26	177 - 188 05:19 - 21:38	16:20	+0 m.	63°

20	171 - 194 05:17 - 21:38	16:21	+0 m.	64°
27	178 - 187 05:19 - 21:38	16:19	-1 m.	63°

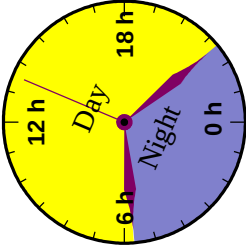
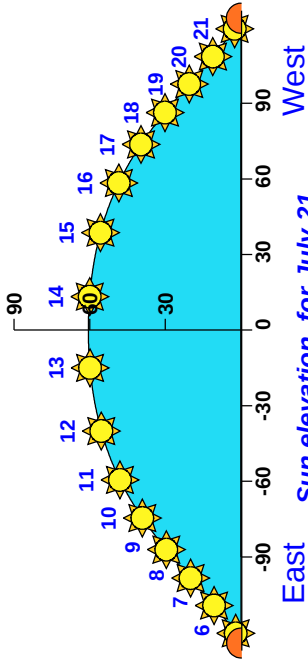
21	172 - 193 05:17 - 21:38	16:21	+0 m.	64°
28	179 - 186 05:19 - 21:38	16:19	+0 m.	63°

22	173 - 192 05:17 - 21:38	16:21	+0 m.	64°
29	180 - 185 05:20 - 21:38	16:18	-1 m.	63°

23	174 - 191 05:17 - 21:38	16:21	+0 m.	64°
30	181 - 184 05:21 - 21:38	16:17	-1 m.	63°

July 2013

Darmstadt
8.65°E, 49.87°N



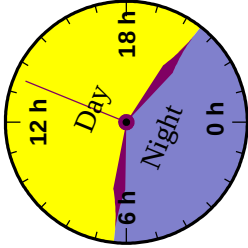
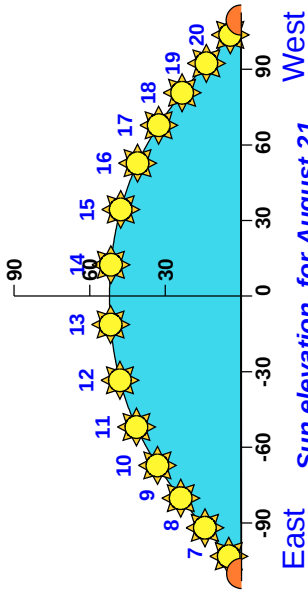
Duration of the day, for July 21

Sunrise and Sunset at Darmstadt (TL ± 1 mn)

Monday		Tuesday		Wednesday		Thursday		Friday		Saturday		Sunday			
1	182 - 183 05:21 - 21:37 16:16 -1 m. 63°	2	183 - 182 05:22 - 21:37 16:15 -1 m. 63°	3	184 - 181 05:23 - 21:37 16:14 -1 m. 63°	4	185 - 180 05:23 - 21:36 16:13 -1 m. 63°	5	186 - 179 05:24 - 21:36 16:12 -1 m. 63°	6	187 - 178 05:25 - 21:35 16:10 -2 m. 63°	7	188 - 177 05:26 - 21:35 16:09 -1 m. 63°		
27		8	189 - 176 05:27 - 21:34 16:08 -1 m. 63°	9	190 - 175 05:28 - 21:34 16:06 -2 m. 62°	10	191 - 174 05:29 - 21:33 16:04 -2 m. 62°	11	192 - 173 05:30 - 21:32 16:03 -1 m. 62°	12	193 - 172 05:31 - 21:31 16:01 -2 m. 62°	13	194 - 171 05:32 - 21:31 15:59 -2 m. 62°	14	195 - 170 05:33 - 21:30 15:57 -2 m. 62°
28		15	196 - 169 05:34 - 21:29 15:55 -2 m. 62°	16	197 - 168 05:35 - 21:28 15:53 -2 m. 61°	17	198 - 167 05:36 - 21:27 15:51 -2 m. 61°	18	199 - 166 05:37 - 21:26 15:49 -2 m. 61°	19	200 - 165 05:38 - 21:25 15:46 -3 m. 61°	20	201 - 164 05:40 - 21:24 15:44 -2 m. 61°	21	202 - 163 05:41 - 21:22 15:42 -2 m. 61°
29		22	203 - 162 05:42 - 21:21 15:39 -3 m. 60°	23	204 - 161 05:43 - 21:20 15:37 -2 m. 60°	24	205 - 160 05:45 - 21:19 15:34 -3 m. 60°	25	206 - 159 05:46 - 21:17 15:32 -2 m. 60°	26	207 - 158 05:47 - 21:16 15:29 -3 m. 59°	27	208 - 157 05:49 - 21:15 15:26 -3 m. 59°	28	209 - 156 05:50 - 21:13 15:24 -2 m. 59°
30		29	210 - 155 05:51 - 21:12 15:21 -3 m. 59°	30	211 - 154 05:53 - 21:10 15:18 -3 m. 59°	31	212 - 153 05:54 - 21:09 15:15 -3 m. 58°								
31															

August 2013

Darmstadt
8.65°E, 49.87°N



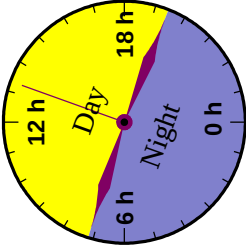
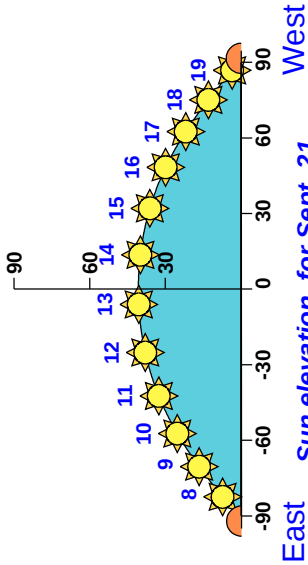
Duration of the day, for August 21

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

Monday			Tuesday			Wednesday			Thursday			Friday			Saturday			Sunday																																				
31	5	217 - 148 06:01 - 21:01 15:00 -3 m. 57°	6	218 - 147 06:02 - 20:59 14:57 -3 m. 57°	7	219 - 146 06:04 - 20:58 14:54 -3 m. 56°	8	220 - 145 06:05 - 20:56 14:51 -3 m. 56°	9	221 - 144 06:07 - 20:54 14:48 -3 m. 56°	10	222 - 143 06:08 - 20:53 14:44 -4 m. 56°	11	223 - 142 06:10 - 20:51 14:41 -3 m. 55°	12	224 - 141 06:11 - 20:49 14:38 -3 m. 55°	13	225 - 140 06:13 - 20:47 14:34 -4 m. 55°	14	226 - 139 06:14 - 20:45 14:31 -3 m. 54°	15	227 - 138 06:16 - 20:43 14:28 -3 m. 54°	16	228 - 137 06:17 - 20:42 14:25 -3 m. 54°	17	229 - 136 06:19 - 20:40 14:21 -4 m. 53°	18	230 - 135 06:20 - 20:38 14:18 -3 m. 53°	19	231 - 134 06:22 - 20:36 14:14 -4 m. 53°	20	232 - 133 06:23 - 20:34 14:11 -3 m. 52°	21	233 - 132 06:24 - 20:32 14:07 -4 m. 52°	22	234 - 131 06:26 - 20:30 14:04 -3 m. 52°	23	235 - 130 06:27 - 20:28 14:01 -3 m. 51°	24	236 - 129 06:29 - 20:26 13:57 -4 m. 51°	25	237 - 128 06:30 - 20:24 13:53 -4 m. 51°	26	238 - 127 06:32 - 20:22 13:50 -3 m. 50°	27	239 - 126 06:33 - 20:20 13:46 -4 m. 50°	28	240 - 125 06:35 - 20:18 13:43 -3 m. 50°	29	241 - 124 06:36 - 20:16 13:39 -4 m. 49°	30	242 - 123 06:38 - 20:13 13:36 -3 m. 49°	31	243 - 122 06:39 - 20:11 13:32 -4 m. 49°
32																																																						
33																																																						
34																																																						
35																																																						

September 2013

Darmstadt
8.65°E, 49.87°N



East Sun elevation, for Sept. 21 West

Duration of the day, for September 21

Sunrise and Sunset at Darmstadt (TL ± 1 mn)

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

35

2	245 - 120 06:42 - 20:07	13:25	-4 m.	48°
9	252 - 113 06:53 - 19:52	13:00	-3 m.	45°
16	259 - 106 07:03 - 19:37	12:34	-3 m.	43°

36

3	246 - 119 06:44 - 20:05	13:21	-4 m.	48°
10	253 - 112 06:54 - 19:50	12:56	-4 m.	45°
17	260 - 105 07:04 - 19:35	12:30	-4 m.	42°

37

10	253 - 112 06:54 - 19:50	12:56	-4 m.	45°
17	260 - 105 07:04 - 19:35	12:30	-4 m.	42°
24	267 - 98 07:15 - 19:19	12:04	-4 m.	40°

38

9	252 - 113 06:53 - 19:52	13:00	-3 m.	45°
16	259 - 106 07:03 - 19:37	12:34	-3 m.	43°
23	266 - 99 07:13 - 19:21	12:08	-4 m.	40°

39

30	273 - 92 07:24 - 19:06	11:42	-4 m.	37°
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3	246 - 119 06:44 - 20:05	13:21	-4 m.	48°
10	253 - 112 06:54 - 19:50	12:56	-4 m.	45°
17	260 - 105 07:04 - 19:35	12:30	-4 m.	42°

10	253 - 112 06:54 - 19:50	12:56	-4 m.	45°
17	260 - 105 07:04 - 19:35	12:30	-4 m.	42°
24	267 - 98 07:15 - 19:19	12:04	-4 m.	40°

17	260 - 105 07:04 - 19:35	12:30	-4 m.	42°
24	267 - 98 07:15 - 19:19	12:04	-4 m.	40°
31	274 - 81 07:25 - 18:53	11:38	-4 m.	37°

4	247 - 118 06:45 - 20:03	13:18	-3 m.	47°
11	254 - 111 06:56 - 19:48	12:52	-4 m.	45°
18	261 - 104 07:06 - 19:32	12:27	-3 m.	42°

11	254 - 111 06:56 - 19:48	12:52	-4 m.	45°
18	261 - 104 07:06 - 19:32	12:27	-3 m.	42°
25	268 - 97 07:16 - 19:17	12:01	-3 m.	39°

18	261 - 104 07:06 - 19:32	12:27	-3 m.	42°
25	268 - 97 07:16 - 19:17	12:01	-3 m.	39°
32	275 - 80 07:27 - 18:45	11:35	-4 m.	36°

5	248 - 117 06:47 - 20:01	13:14	-4 m.	47°
12	255 - 110 06:57 - 19:46	12:49	-3 m.	44°
19	262 - 103 07:07 - 19:30	12:23	-4 m.	41°

12	255 - 110 06:57 - 19:46	12:49	-3 m.	44°
19	262 - 103 07:07 - 19:30	12:23	-4 m.	41°
26	269 - 96 07:18 - 19:15	11:57	-4 m.	39°

19	262 - 103 07:07 - 19:30	12:23	-4 m.	41°
26	269 - 96 07:18 - 19:15	11:57	-4 m.	39°
33	276 - 79 07:29 - 18:33	11:31	-4 m.	36°

6	249 - 116 06:48 - 19:59	13:10	-4 m.	46°
13	256 - 109 06:59 - 19:43	12:45	-4 m.	44°
20	263 - 102 07:09 - 19:28	12:19	-4 m.	41°

13	256 - 109 06:59 - 19:43	12:45	-4 m.	44°
20	263 - 102 07:09 - 19:28	12:19	-4 m.	41°
27	270 - 95 07:19 - 19:13	11:53	-4 m.	38°

20	263 - 102 07:09 - 19:28	12:19	-4 m.	41°
27	270 - 95 07:19 - 19:13	11:53	-4 m.	38°
34	277 - 78 07:30 - 18:27	11:27	-4 m.	35°

7	250 - 115 06:50 - 19:56	13:07	-3 m.	46°
14	257 - 108 07:00 - 19:41	12:41	-4 m.	43°
21	264 - 101 07:10 - 19:26	12:15	-4 m.	41°

14	257 - 108 07:00 - 19:41	12:41	-4 m.	43°
21	264 - 101 07:10 - 19:26	12:15	-4 m.	41°
28	271 - 94 07:21 - 19:10	11:50	-3 m.	38°

21	264 - 101 07:10 - 19:26	12:15	-4 m.	41°
28	271 - 94 07:21 - 19:10	11:50	-3 m.	38°
35	278 - 77 07:32 - 18:15	11:24	-4 m.	35°

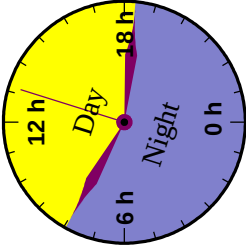
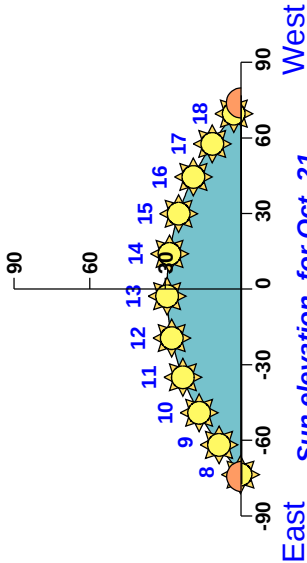
8	251 - 114 06:51 - 19:54	13:03	-4 m.	46°
15	258 - 107 07:02 - 19:39	12:37	-4 m.	43°
22	265 - 100 07:12 - 19:24	12:12	-3 m.	40°

15	258 - 107 07:02 - 19:39	12:37	-4 m.	43°
22	265 - 100 07:12 - 19:24	12:12	-3 m.	40°
29	272 - 93 07:22 - 19:08	11:46	-4 m.	38°

22	265 - 100 07:12 - 19:24	12:12	-3 m.	40°
29	272 - 93 07:22 - 19:08	11:46	-4 m.	38°
36	279 - 76 07:33 - 18:05	11:20	-4 m.	35°

October 2013

Darmstadt
8.65°E, 49.87°N



East Sun elevation, for Oct. 21

Duration of the day, for October 21

Sunrise and Sunset at Darmstadt (TL ± 1 mn)

Time change October 27

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

40

41

42

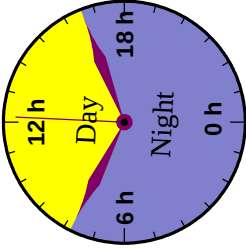
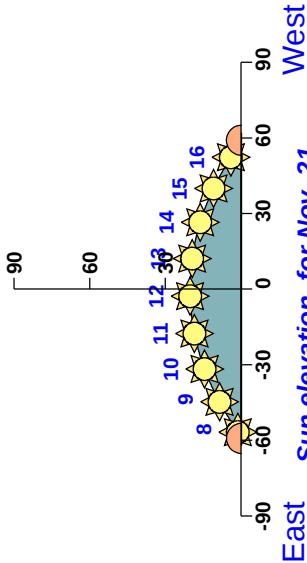
43

44

7	8	15	14	21	28
280 - 85 07:35 - 18:51	281 - 84 07:36 - 18:49	288 - 77 07:47 - 18:35	287 - 78 07:46 - 18:37	294 - 71 07:57 - 18:23	301 - 64 07:08 - 17:10
11:16 -4 m. 34°	11:13 -3 m. 34°	10:47 -4 m. 31°	10:51 -4 m. 32°	10:26 -3 m. 29°	10:01 -4 m. 27°
10:51	11:16	10:47	10:51	10:26	10:01
279 - 86 07:33 - 18:53	286 - 79 07:44 - 18:39	293 - 72 07:55 - 18:25	292 - 73 07:54 - 18:27	300 - 65 07:07 - 17:11	307 - 58 06:18 - 16:22
11:20 -4 m. 35°	10:55 -3 m. 32°	10:29 -4 m. 30°	10:33 -3 m. 30°	10:05 -3 m. 27°	09:38 -2 m. 24°
11:20	10:55	10:29	10:33	10:05	09:38
6	13	20	27	34	41
278 - 87 07:32 - 18:55	285 - 80 07:43 - 18:41	292 - 73 07:54 - 18:27	299 - 66 08:05 - 18:13	306 - 59 07:16 - 17:20	313 - 52 06:27 - 16:31
11:24 -3 m. 35°	10:58 -4 m. 33°	10:33 -3 m. 30°	10:08 -4 m. 28°	09:43 -3 m. 26°	09:18 -2 m. 23°
11:24	10:58	10:33	10:08	09:43	09:18
5	12	19	26	33	40
277 - 88 07:30 - 18:57	284 - 81 07:41 - 18:43	291 - 74 07:52 - 18:28	298 - 67 08:03 - 18:15	305 - 60 07:14 - 17:18	312 - 53 06:25 - 16:29
11:27 -4 m. 36°	11:02 -3 m. 33°	10:36 -4 m. 30°	10:12 -3 m. 28°	09:48 -2 m. 25°	09:23 -1 m. 22°
11:27	11:02	10:36	10:12	09:48	09:23
4	11	18	25	32	39
276 - 89 07:29 - 19:00	283 - 82 07:39 - 18:45	290 - 75 07:51 - 18:30	297 - 68 08:02 - 18:17	304 - 61 07:13 - 17:04	311 - 54 06:24 - 16:28
11:31 -4 m. 36°	11:05 -4 m. 33°	10:40 -4 m. 31°	10:15 -4 m. 28°	09:51 -3 m. 26°	09:26 -2 m. 23°
11:31	11:05	10:40	10:15	09:51	09:26
3	10	17	24	31	38
275 - 90 07:27 - 19:02	282 - 83 07:38 - 18:47	289 - 76 07:49 - 18:32	296 - 69 08:00 - 18:19	303 - 62 07:12 - 17:06	310 - 55 06:23 - 16:27
11:35 -3 m. 36°	11:09 -4 m. 34°	10:44 -3 m. 31°	10:19 -3 m. 29°	09:54 -3 m. 26°	09:29 -2 m. 23°
11:35	11:09	10:44	10:19	09:54	09:29
2	9	16	23	30	37
274 - 91 07:26 - 19:04	281 - 84 07:36 - 18:49	288 - 77 07:47 - 18:35	295 - 70 07:59 - 18:21	302 - 63 07:10 - 17:08	309 - 56 06:21 - 16:25
11:38 -4 m. 37°	11:13 -3 m. 34°	10:47 -4 m. 31°	10:22 -4 m. 29°	09:57 -4 m. 27°	09:32 -3 m. 24°
11:38	11:13	10:47	10:22	09:57	09:32
1	8	15	22	29	36
273 - 92 07:25 - 19:06	280 - 85 07:35 - 18:51	287 - 78 07:46 - 18:37	294 - 71 07:57 - 18:23	301 - 64 07:08 - 17:10	308 - 57 06:19 - 16:23
11:42 -4 m. 37°	11:17 -3 m. 34°	10:51 -4 m. 32°	10:26 -3 m. 29°	10:01 -4 m. 27°	09:26 -2 m. 24°
11:42	11:17	10:51	10:26	10:01	09:26

November 2013

Darmstadt
8.65°E, 49.87°N



Duration of the day, for November 21

Sunrise and Sunset at Darmstadt (TL ± 1 mn)

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

44

4	308 - 57 07:20 - 16:58	9:37	-4 m.	25°
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45

11	315 - 50 07:31 - 16:47	9:15	-3 m.	23°
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46

18	322 - 43 07:43 - 16:38	8:55	-3 m.	21°
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47

25	329 - 36 07:53 - 16:31	8:37	-3 m.	19°
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48

5	309 - 56 07:22 - 16:56	9:34	-3 m.	24°
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12	316 - 49 07:33 - 16:46	9:12	-3 m.	22°
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19	323 - 42 07:44 - 16:37	8:52	-3 m.	21°
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26	330 - 35 07:55 - 16:31	8:35	-2 m.	19°
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6	310 - 55 07:23 - 16:55	9:31	-3 m.	24°
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13	317 - 48 07:35 - 16:44	9:09	-3 m.	22°
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20	324 - 41 07:46 - 16:36	8:50	-2 m.	20°
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27	331 - 34 07:56 - 16:30	8:33	-2 m.	19°
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7	311 - 54 07:25 - 16:53	9:28	-3 m.	24°
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14	318 - 47 07:36 - 16:43	9:06	-3 m.	22°
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21	325 - 40 07:47 - 16:35	8:47	-3 m.	20°
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28	332 - 33 07:58 - 16:29	8:31	-2 m.	19°
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1	305 - 60 07:15 - 17:03	9:47	-4 m.	26°
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8	312 - 53 07:27 - 16:51	9:24	-4 m.	23°
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15	319 - 46 07:38 - 16:42	9:04	-2 m.	22°
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22	326 - 39 07:49 - 16:34	8:45	-2 m.	20°
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29	333 - 32 07:59 - 16:28	8:29	-2 m.	19°
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2	306 - 59 07:17 - 17:01	9:44	-3 m.	25°
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9	313 - 52 07:28 - 16:50	9:21	-3 m.	23°
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16	320 - 45 07:40 - 16:41	9:01	-3 m.	21°
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23	327 - 38 07:50 - 16:33	8:42	-3 m.	20°
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30	334 - 31 08:00 - 16:28	8:27	-2 m.	18°
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3	307 - 58 07:18 - 16:59	9:41	-3 m.	25°
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10	314 - 51 07:30 - 16:49	9:18	-3 m.	23°
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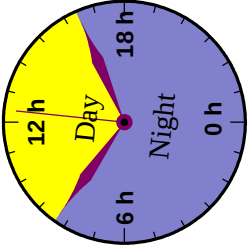
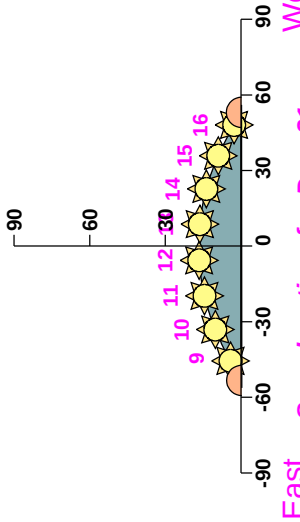
17	321 - 44 07:41 - 16:39	8:58	-3 m.	21°
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24	328 - 37 07:52 - 16:32	8:40	-2 m.	20°
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December 2013

Darmstadt
8.65°E, 49.87°N



Pink Sun elevation, for Dec. 21

Purple Duration of the day, for December 21

Sunrise and Sunset at Darmstadt (TL ± 1 mn)

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

48

49

50

51

52

53

2 336 - 29 08:03 - 16:27 8:23 -2 m. 18°	3 337 - 28 08:04 - 16:26 8:21 -2 m. 18°	4 338 - 27 08:06 - 16:26 8:20 -1 m. 18°	5 339 - 26 08:07 - 16:25 8:18 -2 m. 18°	6 340 - 25 08:08 - 16:25 8:17 -1 m. 18°	7 341 - 24 08:09 - 16:25 8:15 -2 m. 18°	8 342 - 23 08:10 - 16:25 8:14 -1 m. 17°	1 335 - 30 08:02 - 16:27 8:25 -2 m. 18°
9 343 - 22 08:11 - 16:24 8:13 -1 m. 17°	10 344 - 21 08:12 - 16:24 8:11 -2 m. 17°	11 345 - 20 08:13 - 16:24 8:10 -1 m. 17°	12 346 - 19 08:14 - 16:24 8:09 -1 m. 17°	13 347 - 18 08:15 - 16:24 8:09 +0 m. 17°	14 348 - 17 08:16 - 16:24 8:08 -1 m. 17°	15 349 - 16 08:17 - 16:25 8:07 -1 m. 17°	
16 350 - 15 08:18 - 16:25 8:07 +0 m. 17°	17 351 - 14 08:18 - 16:25 8:06 -1 m. 17°	18 352 - 13 08:19 - 16:25 8:06 +0 m. 17°	19 353 - 12 08:20 - 16:26 8:05 -1 m. 17°	20 354 - 11 08:20 - 16:26 8:05 +0 m. 17°	21 355 - 10 08:21 - 16:27 8:05 +0 m. 17°	22 356 - 9 08:21 - 16:27 8:05 +0 m. 17°	
23 357 - 8 08:22 - 16:28 8:05 +0 m. 17°	24 358 - 7 08:22 - 16:28 8:06 +1 m. 17°	25 359 - 6 08:23 - 16:29 8:06 +0 m. 17°	26 360 - 5 08:23 - 16:30 8:06 +0 m. 17°	27 361 - 4 08:23 - 16:30 8:07 +1 m. 17°	28 362 - 3 08:23 - 16:31 8:08 +1 m. 17°	29 363 - 2 08:23 - 16:32 8:08 +0 m. 17°	
30 364 - 1 08:24 - 16:33 8:09 +1 m. 17°	31 365 - 0 08:24 - 16:34 8:10 +1 m. 17°						