

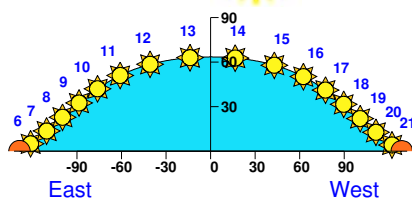
Sun Calendar 2018

Produced by *ScientiDev*
www.scientidev.fr

Darmstadt

8.65°E, 49.87°N

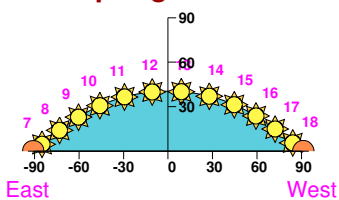
Summer



June 21

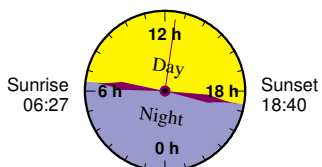


Spring



March 21

Day duration 12:13



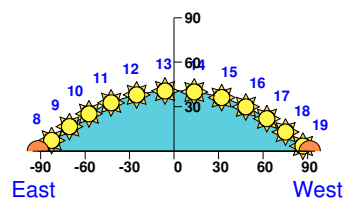
Spring Equinox

Day duration 16:21



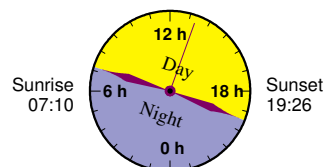
Summer Solstice

Autumn



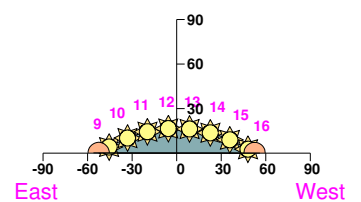
Sept. 21

Day duration 12:16



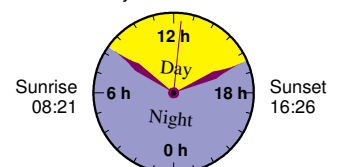
Autumn Equinox

Winter



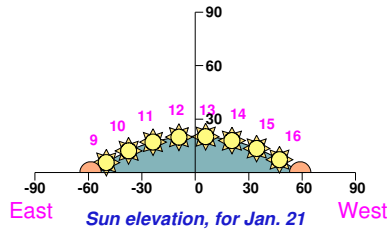
Dec. 21

Day duration 8:05



Winter Solstice

January 2018

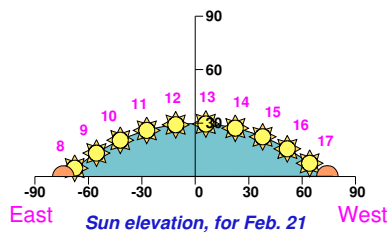


Darmstadt
8.65°E, 49.87°N



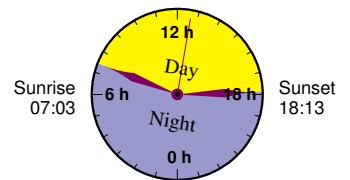
Sunrise and Sunset at Darmstadt (TL $\pm$ 1 mn) and sun maximal elevation (°)

	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

6

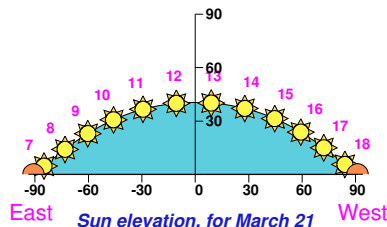
7

8

9

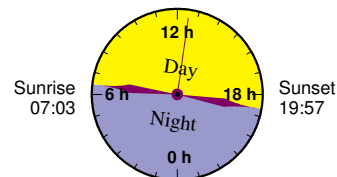
			1 32 - 333 07:59 - 17:20 23° 	2 33 - 332 07:57 - 17:22 23° 	3 34 - 331 07:56 - 17:23 24° 	4 35 - 330 07:54 - 17:25 24°
	5 36 - 329 07:53 - 17:27 24° 	6 37 - 328 07:51 - 17:29 25° 	7 38 - 327 07:50 - 17:30 25° 	8 39 - 326 07:48 - 17:32 25° 	9 40 - 325 07:46 - 17:34 26° 	10 41 - 324 07:45 - 17:35 26°
	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°
	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°
	26 57 - 308 07:15 - 18:03 32° 	27 58 - 307 07:13 - 18:04 32° 	28 59 - 306 07:11 - 18:06 32° 			25 56 - 309 07:17 - 18:01 31°

March 2018



Darmstadt

8.65°E, 49.87°N



Duration of the day, for March 21

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

Time change March 25

Monday

Tuesday

Wednesday

Thursday

Friday

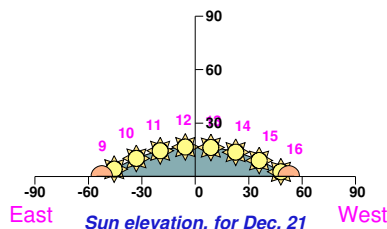
Saturday

Sunday

			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°
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°
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°
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°
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°	

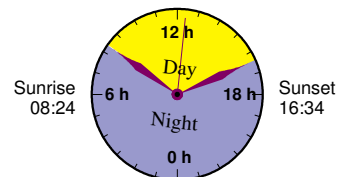
Sun Calendar © P. Robert / ScientiDev, Déc. 2014

December 2018



Darmstadt

8.65°E, 49.87°N



Duration of the day, for December 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

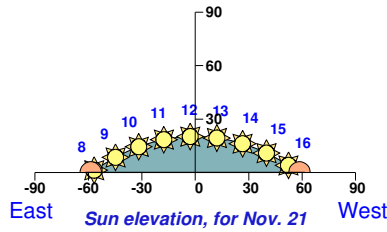
Saturday

Sunday

	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°
10 344 - 21 08:12 - 16:24 17°	11 345 - 20 08:13 - 16:24 17°	12 346 - 19 08:14 - 16:24 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°
24 358 - 7 08:22 - 16:28 17°	25 359 - 6 08:22 - 16:29 17°	26 360 - 5 08:23 - 16:29 17°
31 365 - 0 08:24 - 16:34 17°		

Sun Calendar © P. Robert / ScientiDev, Déc. 2014

November 2018



Darmstadt
8.65°E, 49.87°N



Duration of the day, for November 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

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°

11 315 - 50
07:31 - 16:47 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°

18 322 - 43
07:42 - 16:38 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°

25 329 - 36
07:53 - 16:32 19°

26 330 - 35
07:55 - 16:31 19°

27 331 - 34
07:56 - 16:30 19°

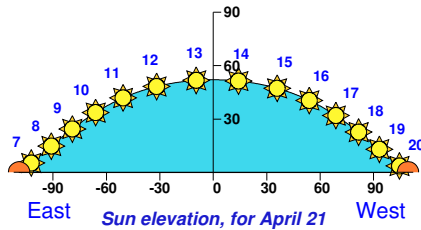
28 332 - 33
07:57 - 16:29 19°

29 333 - 32
07:59 - 16:28 19°

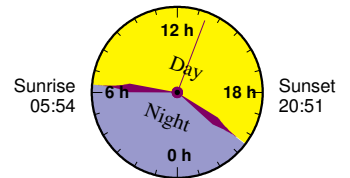
30 334 - 31
08:00 - 16:28 19°

Sun Calendar © P. Robert / ScientiDev, Déc. 2014

April 2018



Darmstadt
8.65°E, 49.87°N



Duration of the day, for April 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

1 91 - 274
07:03 - 19:57 45°

2 92 - 273
07:01 - 19:59 45°

3 93 - 272
06:59 - 20:00 46°

4 94 - 271
06:56 - 20:02 46°

5 95 - 270
06:54 - 20:03 46°

6 96 - 269
06:52 - 20:05 47°

7 97 - 268
06:50 - 20:06 47°

8 98 - 267
06:48 - 20:08 47°

9 99 - 266
06:46 - 20:10 48°

10 100 - 265
06:44 - 20:11 48°

11 101 - 264
06:42 - 20:13 49°

12 102 - 263
06:39 - 20:14 49°

13 103 - 262
06:37 - 20:16 49°

14 104 - 261
06:35 - 20:17 50°

15 105 - 260
06:33 - 20:19 50°

16 106 - 259
06:31 - 20:21 50°

17 107 - 258
06:29 - 20:22 51°

18 108 - 257
06:27 - 20:24 51°

19 109 - 256
06:25 - 20:25 51°

20 110 - 255
06:23 - 20:27 52°

21 111 - 254
06:21 - 20:28 52°

22 112 - 253
06:19 - 20:30 52°

23 113 - 252
06:17 - 20:31 53°

24 114 - 251
06:16 - 20:33 53°

25 115 - 250
06:14 - 20:34 53°

26 116 - 249
06:12 - 20:36 54°

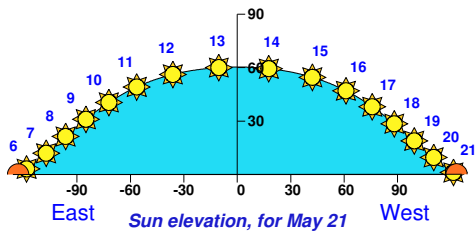
27 117 - 248
06:10 - 20:38 54°

28 118 - 247
06:08 - 20:39 54°

29 119 - 246
06:06 - 20:41 55°

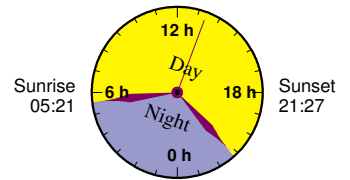
30 120 - 245
06:04 - 20:42 55°

Sun Calendar © P. Robert / ScientiDev, Déc. 2014



May 2018

Darmstadt
8.65°E, 49.87°N



Duration of the day, for May 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

18

19

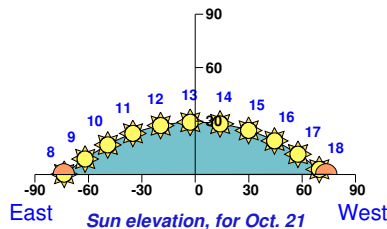
20

21

22

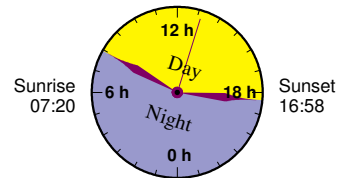
	1 121 - 244 06:03 - 20:44 55°	2 122 - 243 06:01 - 20:45 56°	3 123 - 242 05:59 - 20:47 56°	4 124 - 241 05:57 - 20:48 56°	5 125 - 240 05:56 - 20:50 56°	6 126 - 239 05:54 - 20:51 57°
7 127 - 238 05:52 - 20:53 57°	8 128 - 237 05:51 - 20:54 57°	9 129 - 236 05:49 - 20:56 58°	10 130 - 235 05:48 - 20:57 58°	11 131 - 234 05:46 - 20:59 58°	12 132 - 233 05:45 - 21:00 58°	13 133 - 232 05:43 - 21:02 59°
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°
21 141 - 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°
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°			

Sun Calendar © P. Robert / ScientiDev, Déc. 2014



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

41

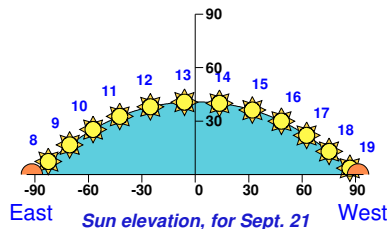
42

43

44

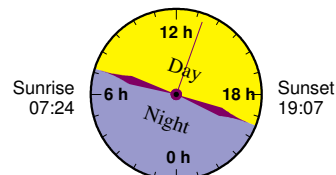
1 274 - 91 07:25 - 19:04 37°	2 275 - 90 07:27 - 19:02 36°	3 276 - 89 07:28 - 19:00 36°	4 277 - 88 07:30 - 18:58 36°	5 278 - 87 07:31 - 18:56 35°	6 279 - 86 07:33 - 18:54 35°	7 280 - 85 07:34 - 18:52 35°
8 281 - 84 07:36 - 18:49 34°	9 282 - 83 07:38 - 18:47 34°	10 283 - 82 07:39 - 18:45 33°	11 284 - 81 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°
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°
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°
29 302 - 63 07:10 - 17:08 27°	30 303 - 62 07:11 - 17:06 26°	31 304 - 61 07:13 - 17:05 26°				

Sun Calendar © P. Robert / ScientiDev, Déc. 2014



September 2018

Darmstadt
8.65°E, 49.87°N



Duration of the day, for September 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

35

36

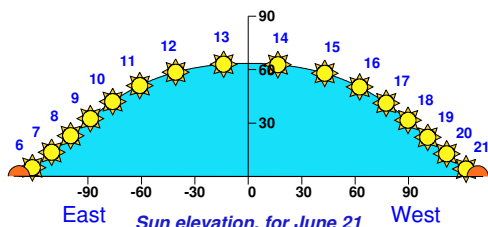
37

38

39

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°

Sun Calendar © P. Robert / ScientiDev, Déc. 2014



June 2018

Darmstadt
8.65°E, 49.87°N



Duration of the day, for June 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

22

23

24

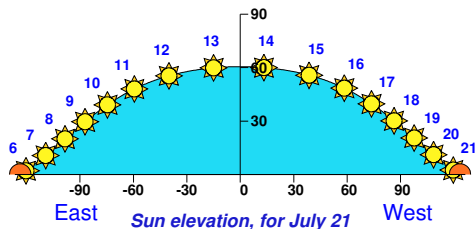
25

26

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°
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°
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°
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°	

Sun Calendar © P. Robert / ScientiDev, Déc. 2014

July 2018



Darmstadt
8.65°E, 49.87°N



Duration of the day, for July 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

26

27

28

29

30

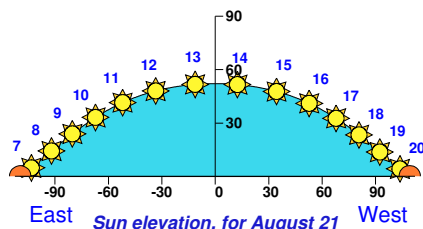
31

1 182 - 183
05:21 - 21:37 63°

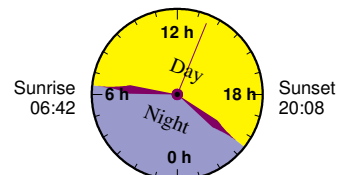
2 183 - 182 05:22 - 21:37 63°	3 184 - 181 05:22 - 21:37 63°	4 185 - 180 05:23 - 21:36 63°	5 186 - 179 05:24 - 21:36 63°	6 187 - 178 05:25 - 21:35 63°	7 188 - 177 05:26 - 21:35 63°	8 189 - 176 05:27 - 21:34 63°
9 190 - 175 05:27 - 21:34 62°	10 191 - 174 05:28 - 21:33 62°	11 192 - 173 05:29 - 21:32 62°	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°					

Sun Calendar © P. Robert / ScientiDev, Déc. 2014

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°
6 218 - 147 06:02 - 21:00 57°	7 219 - 146 06:04 - 20:58 56°	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°
13 225 - 140 06:12 - 20:48 55°	14 226 - 139 06:14 - 20:46 54°	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°
20 232 - 133 06:23 - 20:34 53°	21 233 - 132 06:24 - 20:32 52°	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°
27 239 - 126 06:33 - 20:20 50°	28 240 - 125 06:35 - 20:18 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°		

Sun Calendar © P. Robert / ScientiDev, Déc. 2014