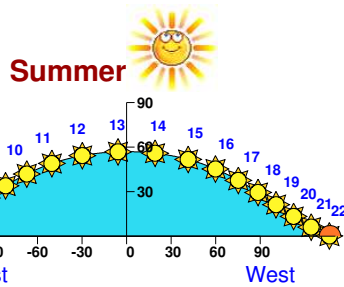


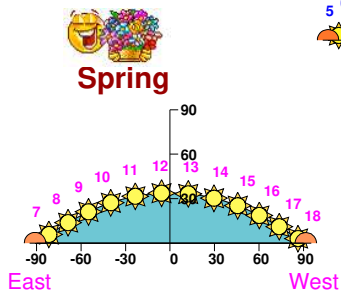
Sun Calendar 2018

Produced by **ScientiDev**
www.scientidev.fr

Dundee
-2.97°E, 56.46°N

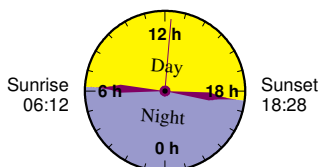


June 21

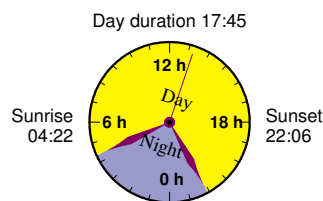


March 21

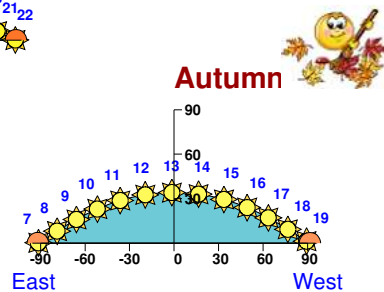
Day duration 12:16



Spring Equinox

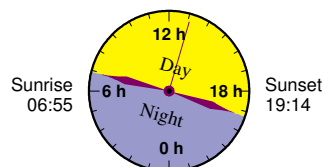


Summer Solstice

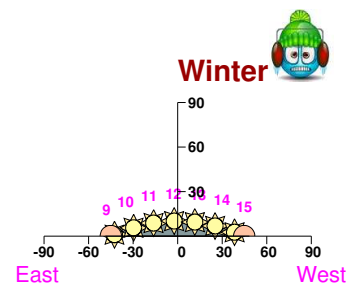


Sept. 21

Day duration 12:19

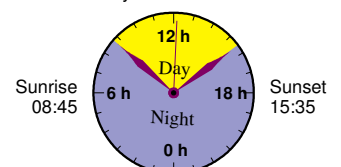


Autumn Equinox



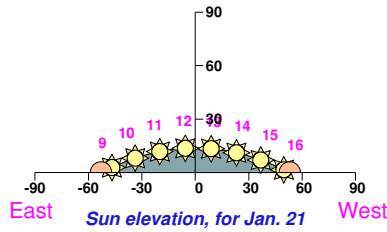
Dec. 21

Day duration 6:50



Winter Solstice

January 2018

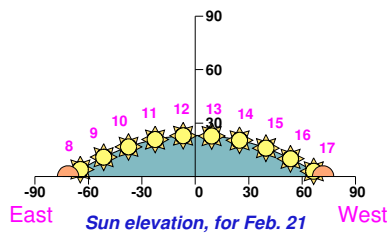


Dundee
-2.97°E, 56.46°N



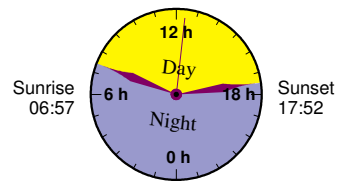
Sunrise and Sunset at Dundee (TL ± 1 mn) and sun maximal elevation (°)

	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
1	1 1 - 364 08:46 - 15:45 11° 	2 2 - 363 08:46 - 15:46 11° 	3 3 - 362 08:46 - 15:48 11° 	4 4 - 361 08:45 - 15:49 11° 	5 5 - 360 08:45 - 15:51 11° 	6 6 - 359 08:44 - 15:52 11° 	7 7 - 358 08:43 - 15:54 11°
2	8 8 - 357 08:43 - 15:55 11° 	9 9 - 356 08:42 - 15:57 12° 	10 10 - 355 08:41 - 15:58 12° 	11 11 - 354 08:40 - 16:00 12° 	12 12 - 353 08:39 - 16:02 12° 	13 13 - 352 08:38 - 16:04 12° 	14 14 - 351 08:37 - 16:06 12°
3	15 15 - 350 08:36 - 16:07 13° 	16 16 - 349 08:35 - 16:09 13° 	17 17 - 348 08:34 - 16:11 13° 	18 18 - 347 08:32 - 16:13 13° 	19 19 - 346 08:31 - 16:15 13° 	20 20 - 345 08:29 - 16:17 14° 	21 21 - 344 08:28 - 16:19 14°
4	22 22 - 343 08:26 - 16:21 14° 	23 23 - 342 08:25 - 16:23 14° 	24 24 - 341 08:23 - 16:26 14° 	25 25 - 340 08:22 - 16:28 15° 	26 26 - 339 08:20 - 16:30 15° 	27 27 - 338 08:18 - 16:32 15° 	28 28 - 337 08:16 - 16:34 15°
5	29 29 - 336 08:15 - 16:36 16° 	30 30 - 335 08:13 - 16:39 16° 	31 31 - 334 08:11 - 16:41 16° 				



February 2018

Dundee
-2.97°E, 56.46°N



Duration of the day, for February 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

5

6

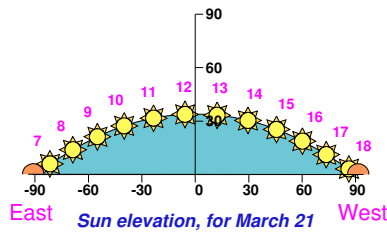
7

8

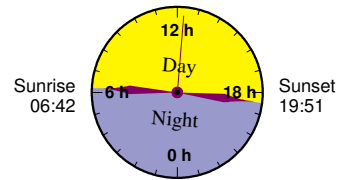
9

			1 32 - 333 08:09 - 16:43 17° 	2 33 - 332 08:07 - 16:45 17° 	3 34 - 331 08:05 - 16:47 17° 	4 35 - 330 08:03 - 16:50 17°
5	5 36 - 329 08:01 - 16:52 18° 	6 37 - 328 07:59 - 16:54 18° 	7 38 - 327 07:57 - 16:56 18° 	8 39 - 326 07:55 - 16:59 19° 	9 40 - 325 07:52 - 17:01 19° 	10 41 - 324 07:50 - 17:03 19°
6						
7	12 43 - 322 07:46 - 17:08 20° 	13 44 - 321 07:43 - 17:10 20° 	14 45 - 320 07:41 - 17:12 21° 	15 46 - 319 07:39 - 17:14 21° 	16 47 - 318 07:37 - 17:17 21° 	17 48 - 317 07:34 - 17:19 22°
8	19 50 - 315 07:29 - 17:23 22° 	20 51 - 314 07:27 - 17:26 23° 	21 52 - 313 07:25 - 17:28 23° 	22 53 - 312 07:22 - 17:30 23° 	23 54 - 311 07:20 - 17:32 24° 	24 55 - 310 07:17 - 17:34 24°
9	26 57 - 308 07:12 - 17:39 25° 	27 58 - 307 07:10 - 17:41 25° 	28 59 - 306 07:07 - 17:43 26° 			25 56 - 309 07:15 - 17:37 25°

March 2018



Dundee
-2.97°E, 56.46°N



Duration of the day, for March 21

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

Time change March 25

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

9

10

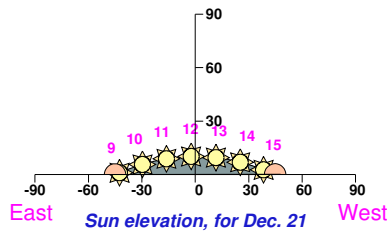
11

12

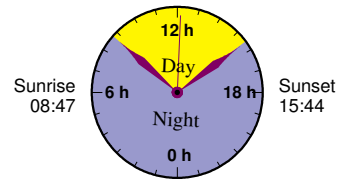
13

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December 2018



Dundee
-2.97°E, 56.46°N



Duration of the day, for December 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

48

49

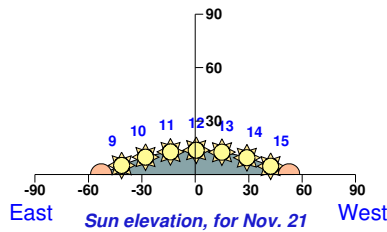
50

51

52

53

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



November 2018

Dundee
-2.97°E, 56.46°N



Duration of the day, for November 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

1 305 - 60
07:20 - 16:30 19°

2 306 - 59
07:23 - 16:28 19°

3 307 - 58
07:25 - 16:26 18°

4 308 - 57
07:27 - 16:24 18°

5 309 - 56
07:29 - 16:21 18°

6 310 - 55
07:31 - 16:19 18°

7 311 - 54
07:33 - 16:17 17°

8 312 - 53
07:36 - 16:15 17°

9 313 - 52
07:38 - 16:13 17°

10 314 - 51
07:40 - 16:11 16°

11 315 - 50
07:42 - 16:09 16°

12 316 - 49
07:44 - 16:08 16°

13 317 - 48
07:46 - 16:06 16°

14 318 - 47
07:48 - 16:04 15°

15 319 - 46
07:51 - 16:02 15°

16 320 - 45
07:53 - 16:00 15°

17 321 - 44
07:55 - 15:59 15°

18 322 - 43
07:57 - 15:57 14°

19 323 - 42
07:59 - 15:55 14°

20 324 - 41
08:01 - 15:54 14°

21 325 - 40
08:03 - 15:52 14°

22 326 - 39
08:05 - 15:51 13°

23 327 - 38
08:07 - 15:50 13°

24 328 - 37
08:09 - 15:48 13°

25 329 - 36
08:11 - 15:47 13°

26 330 - 35
08:13 - 15:46 13°

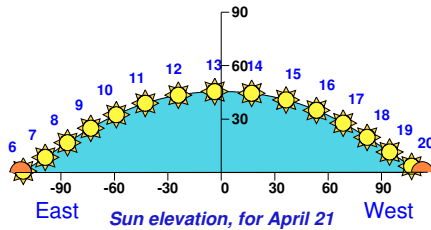
27 331 - 34
08:14 - 15:44 12°

28 332 - 33
08:16 - 15:43 12°

29 333 - 32
08:18 - 15:42 12°

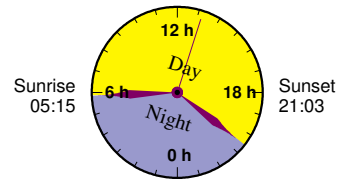
30 334 - 31
08:20 - 15:41 12°

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April 2018

Dundee
-2.97°E, 56.46°N



Duration of the day, for April 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

1 91 - 274
06:42 - 19:51 38°

2 92 - 273
06:40 - 19:53 39°

3 93 - 272
06:37 - 19:55 39°

4 94 - 271
06:34 - 19:57 39°

5 95 - 270
06:32 - 19:59 40°

6 96 - 269
06:29 - 20:01 40°

7 97 - 268
06:27 - 20:03 40°

8 98 - 267
06:24 - 20:05 41°

9 99 - 266
06:21 - 20:07 41°

10 100 - 265
06:19 - 20:09 42°

11 101 - 264
06:16 - 20:12 42°

12 102 - 263
06:13 - 20:14 42°

13 103 - 262
06:11 - 20:16 43°

14 104 - 261
06:08 - 20:18 43°

15 105 - 260
06:06 - 20:20 43°

16 106 - 259
06:03 - 20:22 44°

17 107 - 258
06:01 - 20:24 44°

18 108 - 257
05:58 - 20:26 44°

19 109 - 256
05:56 - 20:28 45°

20 110 - 255
05:53 - 20:30 45°

21 111 - 254
05:51 - 20:32 45°

22 112 - 253
05:48 - 20:34 46°

23 113 - 252
05:46 - 20:37 46°

24 114 - 251
05:43 - 20:39 46°

25 115 - 250
05:41 - 20:41 47°

26 116 - 249
05:38 - 20:43 47°

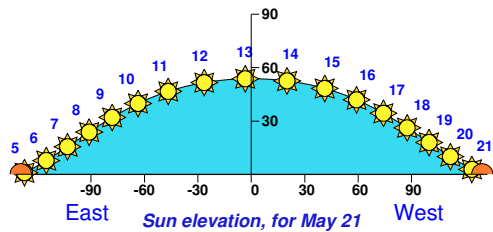
27 117 - 248
05:36 - 20:45 47°

28 118 - 247
05:34 - 20:47 48°

29 119 - 246
05:31 - 20:49 48°

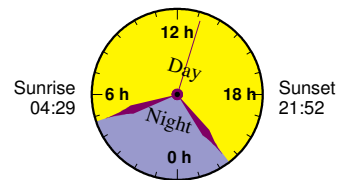
30 120 - 245
05:29 - 20:51 48°

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May 2018

Dundee
-2.97°E, 56.46°N

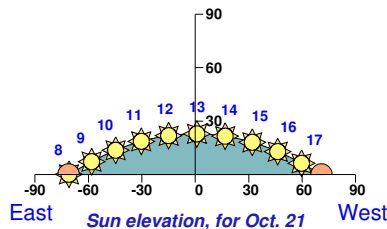


Duration of the day, for May 21

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

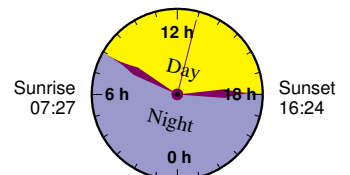
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
18		1 121 - 244 05:27 - 20:53 49°	2 122 - 243 05:24 - 20:55 49°	3 123 - 242 05:22 - 20:57 49°	4 124 - 241 05:20 - 20:59 50°	5 125 - 240 05:18 - 21:01 50°	6 126 - 239 05:15 - 21:03 50°
19	7 127 - 238 05:13 - 21:05 50°	8 128 - 237 05:11 - 21:07 51°	9 129 - 236 05:09 - 21:09 51°	10 130 - 235 05:07 - 21:11 51°	11 131 - 234 05:05 - 21:13 51°	12 132 - 233 05:03 - 21:15 52°	13 133 - 232 05:01 - 21:17 52°
20	14 134 - 231 04:59 - 21:19 52°	15 135 - 230 04:57 - 21:21 52°	16 136 - 229 04:55 - 21:23 53°	17 137 - 228 04:53 - 21:25 53°	18 138 - 227 04:51 - 21:27 53°	19 139 - 226 04:50 - 21:29 53°	20 140 - 225 04:48 - 21:30 54°
21	21 141 - 224 04:46 - 21:32 54°	22 142 - 223 04:45 - 21:34 54°	23 143 - 222 04:43 - 21:36 54°	24 144 - 221 04:42 - 21:37 54°	25 145 - 220 04:40 - 21:39 55°	26 146 - 219 04:39 - 21:41 55°	27 147 - 218 04:37 - 21:42 55°
22	28 148 - 217 04:36 - 21:44 55°	29 149 - 216 04:35 - 21:45 55°	30 150 - 215 04:33 - 21:47 55°	31 151 - 214 04:32 - 21:48 55°			

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October 2018

Dundee
-2.97°E, 56.46°N



Duration of the day, for October 21

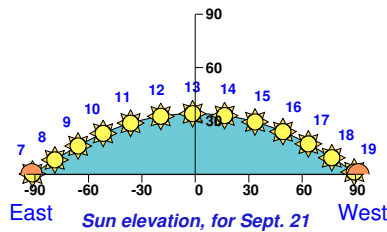
Sunrise and Sunset at Dundee (TL ± 1 mn) and sun maximal elevation (°)

Time change October 28

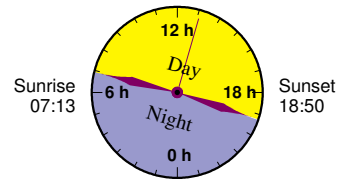
	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday	Sunday
40	1 274 - 91 07:15 - 18:47 30°	2 275 - 90 07:17 - 18:45 30°	3 276 - 89 07:19 - 18:42 30°	4 277 - 88 07:21 - 18:39 29°	5 278 - 87 07:23 - 18:37 29°	6 279 - 86 07:25 - 18:34 28°	7 280 - 85 07:27 - 18:31 28°
41	8 281 - 84 07:29 - 18:29 28°	9 282 - 83 07:31 - 18:26 27°	10 283 - 82 07:33 - 18:24 27°	11 284 - 81 07:36 - 18:21 26°	12 285 - 80 07:38 - 18:18 26°	13 286 - 79 07:40 - 18:16 26°	14 287 - 78 07:42 - 18:13 25°
42	15 288 - 77 07:44 - 18:11 25°	16 289 - 76 07:46 - 18:08 25°	17 290 - 75 07:48 - 18:06 24°	18 291 - 74 07:50 - 18:03 24°	19 292 - 73 07:52 - 18:01 24°	20 293 - 72 07:54 - 17:58 23°	21 294 - 71 07:57 - 17:56 23°
43	22 295 - 70 07:59 - 17:53 22°	23 296 - 69 08:01 - 17:51 22°	24 297 - 68 08:03 - 17:49 22°	25 298 - 67 08:05 - 17:46 21°	26 299 - 66 08:07 - 17:44 21°	27 300 - 65 08:09 - 17:41 21°	28 301 - 64 07:12 - 16:39 20°
44	29 302 - 63 07:14 - 16:37 20°	30 303 - 62 07:16 - 16:35 20°	31 304 - 61 07:18 - 16:32 19°				

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September 2018



Dundee
-2.97°E, 56.46°N



Duration of the day, for September 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

35

36

37

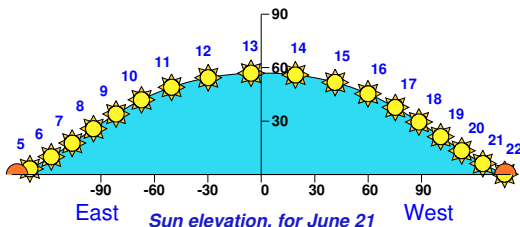
38

39

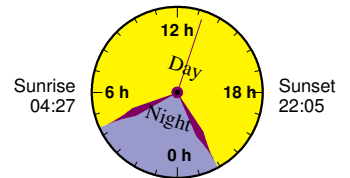
1 244 - 121 06:15 - 20:08 42°	2 245 - 120 06:17 - 20:05 41°
3 246 - 119 06:19 - 20:02 41°	4 247 - 118 06:21 - 20:00 41°
5 248 - 117 06:23 - 19:57 40°	6 249 - 116 06:25 - 19:54 40°
7 250 - 115 06:27 - 19:52 40°	8 251 - 114 06:29 - 19:49 39°
9 252 - 113 06:31 - 19:46 39°	10 253 - 112 06:33 - 19:44 38°
11 254 - 111 06:35 - 19:41 38°	12 255 - 110 06:37 - 19:38 38°
13 256 - 109 06:39 - 19:36 37°	14 257 - 108 06:41 - 19:33 37°
15 258 - 107 06:43 - 19:30 36°	16 259 - 106 06:45 - 19:28 36°
17 260 - 105 06:47 - 19:25 36°	18 261 - 104 06:49 - 19:22 35°
19 262 - 103 06:51 - 19:20 35°	20 263 - 102 06:53 - 19:17 35°
21 264 - 101 06:55 - 19:14 34°	22 265 - 100 06:57 - 19:11 34°
23 266 - 99 06:59 - 19:09 33°	24 267 - 98 07:01 - 19:06 33°
25 268 - 97 07:03 - 19:03 33°	26 269 - 96 07:05 - 19:01 32°
27 270 - 95 07:07 - 18:58 32°	28 271 - 94 07:09 - 18:55 31°
29 272 - 93 07:11 - 18:53 31°	30 273 - 92 07:13 - 18:50 31°

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June 2018



Dundee
-2.97°E, 56.46°N



Duration of the day, for June 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

22

23

24

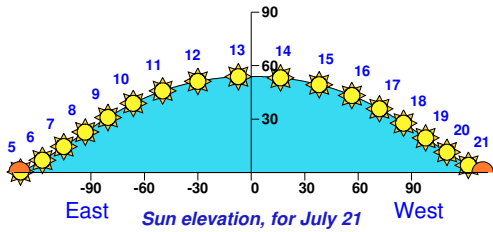
25

26

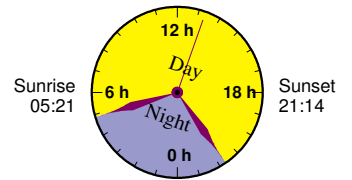
1 152 - 213 04:31 - 21:50 56°	2 153 - 212 04:30 - 21:51 56°	3 154 - 211 04:29 - 21:52 56°
4 155 - 210 04:28 - 21:54 56°	5 156 - 209 04:27 - 21:55 56°	6 157 - 208 04:26 - 21:56 56°
7 158 - 207 04:25 - 21:57 56°	8 159 - 206 04:25 - 21:58 56°	9 160 - 205 04:24 - 21:59 57°
10 161 - 204 04:23 - 22:00 57°	11 162 - 203 04:23 - 22:01 57°	12 163 - 202 04:23 - 22:02 57°
13 164 - 201 04:22 - 22:02 57°	14 165 - 200 04:22 - 22:03 57°	15 166 - 199 04:22 - 22:04 57°
16 167 - 198 04:21 - 22:04 57°	17 168 - 197 04:21 - 22:05 57°	18 169 - 196 04:21 - 22:05 57°
19 170 - 195 04:21 - 22:06 57°	20 171 - 194 04:21 - 22:06 57°	21 172 - 193 04:22 - 22:06 57°
22 173 - 192 04:22 - 22:06 57°	23 174 - 191 04:22 - 22:06 57°	24 175 - 190 04:22 - 22:06 57°
25 176 - 189 04:23 - 22:06 57°	26 177 - 188 04:23 - 22:06 57°	27 178 - 187 04:24 - 22:06 57°
28 179 - 186 04:25 - 22:06 57°	29 180 - 185 04:25 - 22:05 57°	30 181 - 184 04:26 - 22:05 57°

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July 2018



Dundee
-2.97°E, 56.46°N



Duration of the day, for July 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

26

27

28

29

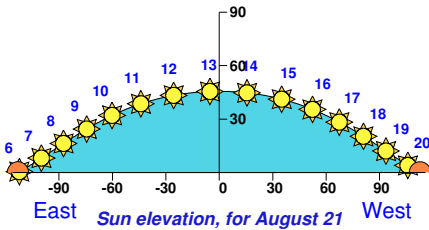
30

31

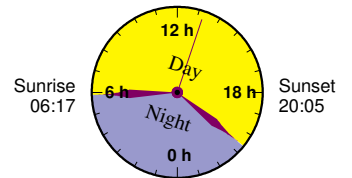
						1 182 - 183 04:27 - 22:05 57°
2 183 - 182 04:28 - 22:04 57° 	3 184 - 181 04:29 - 22:03 56° 	4 185 - 180 04:30 - 22:03 56° 	5 186 - 179 04:31 - 22:02 56° 	6 187 - 178 04:32 - 22:01 56° 	7 188 - 177 04:33 - 22:00 56° 	8 189 - 176 04:34 - 21:59 56°
9 190 - 175 04:35 - 21:58 56° 	10 191 - 174 04:37 - 21:57 56° 	11 192 - 173 04:38 - 21:56 56° 	12 193 - 172 04:39 - 21:55 55° 	13 194 - 171 04:41 - 21:54 55° 	14 195 - 170 04:42 - 21:53 55° 	15 196 - 169 04:44 - 21:51 55°
16 197 - 168 04:45 - 21:50 55° 	17 198 - 167 04:47 - 21:49 55° 	18 199 - 166 04:48 - 21:47 55° 	19 200 - 165 04:50 - 21:46 54° 	20 201 - 164 04:52 - 21:44 54° 	21 202 - 163 04:53 - 21:42 54° 	22 203 - 162 04:55 - 21:41 54°
23 204 - 161 04:57 - 21:39 54° 	24 205 - 160 04:59 - 21:37 53° 	25 206 - 159 05:00 - 21:36 53° 	26 207 - 158 05:02 - 21:34 53° 	27 208 - 157 05:04 - 21:32 53° 	28 209 - 156 05:06 - 21:30 52° 	29 210 - 155 05:08 - 21:28 52°
30 211 - 154 05:10 - 21:26 52° 	31 212 - 153 05:11 - 21:24 52° 					

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August 2018



Dundee
-2.97°E, 56.46°N



Duration of the day, for August 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

31

32

33

34

35

		1 213 - 152 05:13 - 21:22 52° 	2 214 - 151 05:15 - 21:20 51° 	3 215 - 150 05:17 - 21:18 51° 	4 216 - 149 05:19 - 21:16 51° 	5 217 - 148 05:21 - 21:14 50°
6 218 - 147 05:23 - 21:11 50° 	7 219 - 146 05:25 - 21:09 50° 	8 220 - 145 05:27 - 21:07 50° 	9 221 - 144 05:29 - 21:05 49° 	10 222 - 143 05:31 - 21:02 49° 	11 223 - 142 05:33 - 21:00 49° 	12 224 - 141 05:35 - 20:58 48°
13 225 - 140 05:37 - 20:55 48° 	14 226 - 139 05:39 - 20:53 48° 	15 227 - 138 05:41 - 20:51 48° 	16 228 - 137 05:43 - 20:48 47° 	17 229 - 136 05:45 - 20:46 47° 	18 230 - 135 05:47 - 20:43 47° 	19 231 - 134 05:49 - 20:41 46°
20 232 - 133 05:51 - 20:38 46° 	21 233 - 132 05:53 - 20:36 46° 	22 234 - 131 05:55 - 20:33 45° 	23 235 - 130 05:57 - 20:31 45° 	24 236 - 129 05:59 - 20:28 45° 	25 237 - 128 06:01 - 20:26 44° 	26 238 - 127 06:03 - 20:23 44°
27 239 - 126 06:05 - 20:21 44° 	28 240 - 125 06:07 - 20:18 43° 	29 241 - 124 06:09 - 20:16 43° 	30 242 - 123 06:11 - 20:13 42° 	31 243 - 122 06:13 - 20:10 42° 		

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