

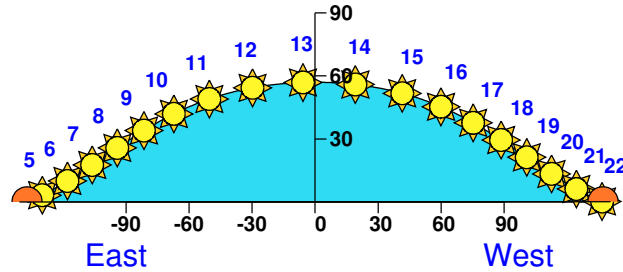
Sun Calendar 2018

Produced by *ScientiDev*
www.scientidev.fr

Dundee

-2.97°E, 56.46°N

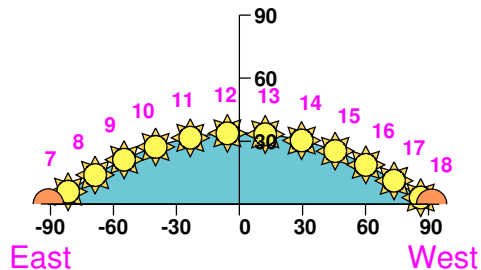
Summer



June 21

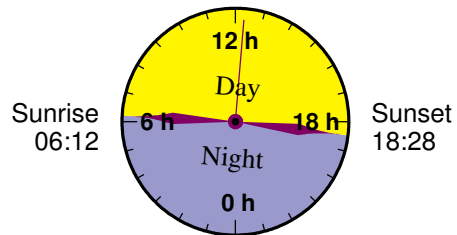


Spring



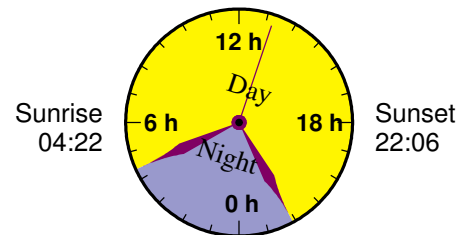
March 21

Day duration 12:16



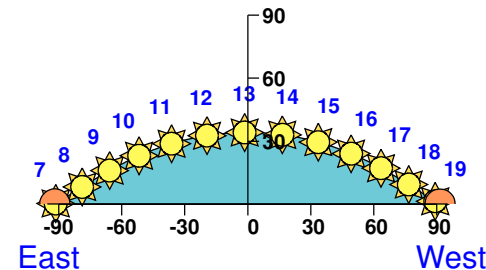
Spring Equinox

Day duration 17:45



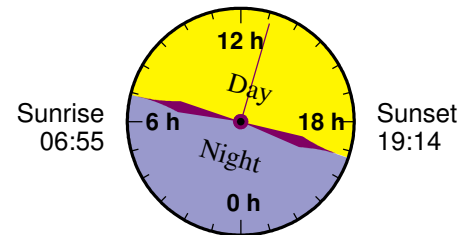
Summer Solstice

Autumn



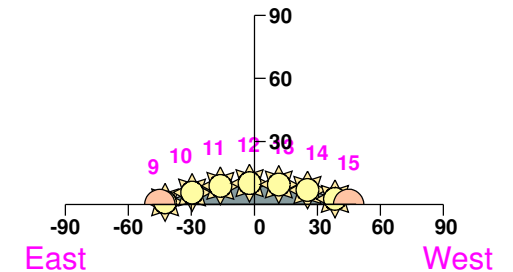
Sept. 21

Day duration 12:19



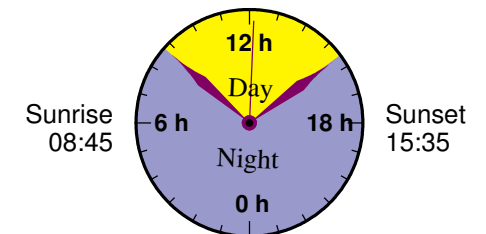
Autumn Equinox

Winter



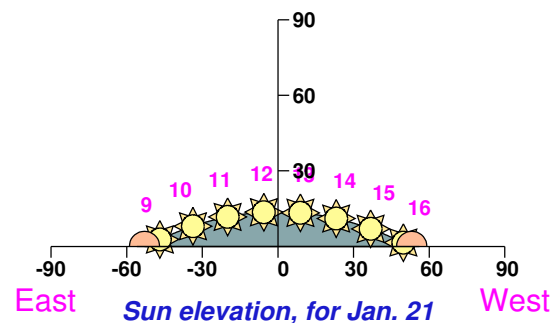
Dec. 21

Day duration 6:50

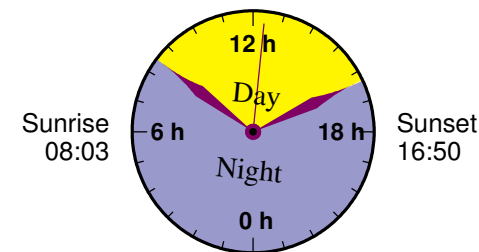


Winter Solstice

January 2018



Dundee
-2.97°E, 56.46°N

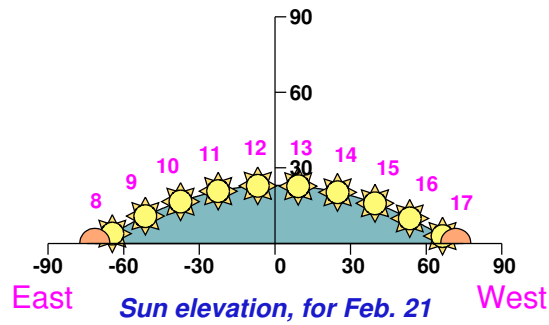


Duration of the day, for January 21

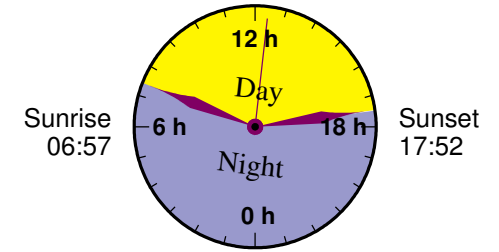
Sunrise and Sunset at Dundee (TL $\pm$ 1 mn) and sun maximal elevation (°)

	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 $\pm$ 1 mn) and sun maximal elevation (°)

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

5

6

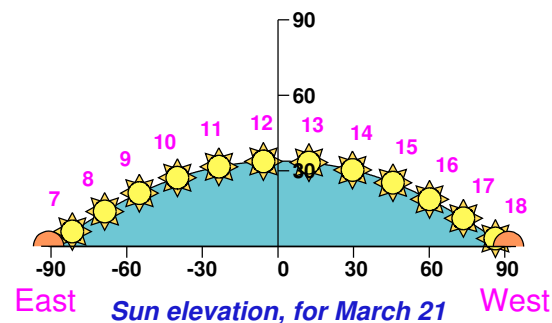
7

8

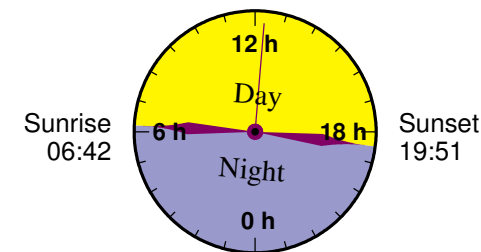
9

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°
8 39 - 326 07:55 - 16:59 19°	9 40 - 325 07:52 - 17:01 19°	10 41 - 324 07:50 - 17:03 19°	11 42 - 323 07:48 - 17:05 20°
15 46 - 319 07:39 - 17:14 21°	16 47 - 318 07:37 - 17:17 21°	17 48 - 317 07:34 - 17:19 22°	18 49 - 316 07:32 - 17:21 22°
22 53 - 312 07:22 - 17:30 23°	23 54 - 311 07:20 - 17:32 24°	24 55 - 310 07:17 - 17:34 24°	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 $\pm$ 1 mn) and sun maximal elevation (°)

Time change March 25

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

9

1 60 - 305
07:05 - 17:45 26°

2 61 - 304
07:02 - 17:47 26°

3 62 - 303
06:59 - 17:50 27°

4 63 - 302
06:57 - 17:52 27°

10

5 64 - 301
06:54 - 17:54 28°

6 65 - 300
06:52 - 17:56 28°

7 66 - 299
06:49 - 17:58 28°

8 67 - 298
06:46 - 18:00 29°

9 68 - 297
06:44 - 18:02 29°

10 69 - 296
06:41 - 18:05 30°

11 70 - 295
06:39 - 18:07 30°

11

12 71 - 294
06:36 - 18:09 30°

13 72 - 293
06:33 - 18:11 31°

14 73 - 292
06:31 - 18:13 31°

15 74 - 291
06:28 - 18:15 32°

16 75 - 290
06:25 - 18:17 32°

17 76 - 289
06:23 - 18:19 32°

18 77 - 288
06:20 - 18:22 33°

12

19 78 - 287
06:17 - 18:24 33°

20 79 - 286
06:15 - 18:26 34°

21 80 - 285
06:12 - 18:28 34°

22 81 - 284
06:09 - 18:30 34°

23 82 - 283
06:07 - 18:32 35°

24 83 - 282
06:04 - 18:34 35°

25 84 - 281
07:01 - 19:36 35°

13

26 85 - 280
06:58 - 19:38 36°

27 86 - 279
06:56 - 19:40 36°

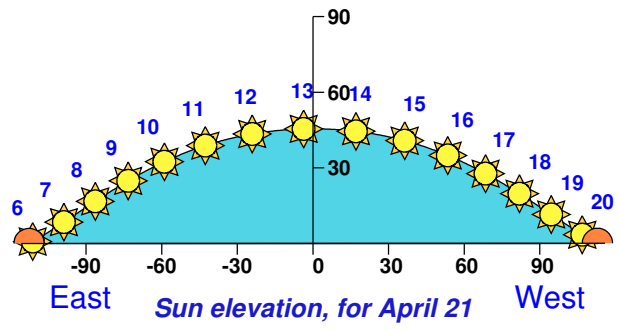
28 87 - 278
06:53 - 19:42 37°

29 88 - 277
06:50 - 19:44 37°

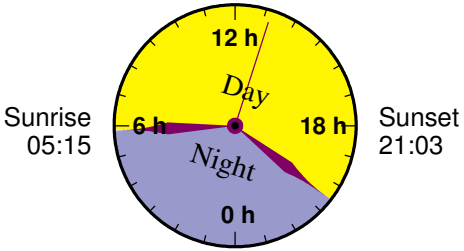
30 89 - 276
06:48 - 19:47 37°

31 90 - 275
06:45 - 19:49 38°

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 ($^\circ$)

Monday **Tuesday** **Wednesday** **Thursday** **Friday** **Saturday** **Sunday**

13

14

15

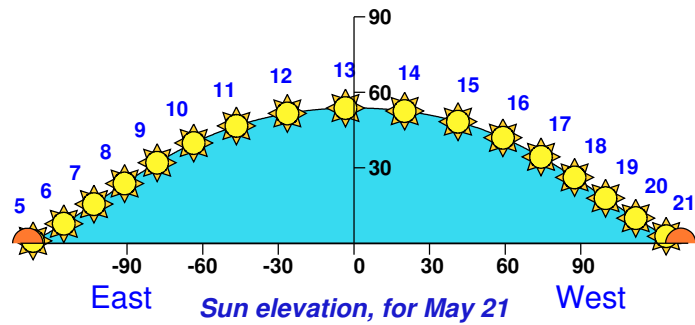
16

17

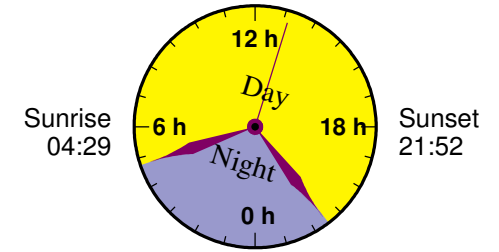
18

						191 - 274 06:42 - 19:51 38°
292 - 273 06:40 - 19:53 39° 	393 - 272 06:37 - 19:55 39° 	494 - 271 06:34 - 19:57 39° 	595 - 270 06:32 - 19:59 40° 	696 - 269 06:29 - 20:01 40° 	797 - 268 06:27 - 20:03 40° 	898 - 267 06:24 - 20:05 41°
999 - 266 06:21 - 20:07 41° 	10100 - 265 06:19 - 20:09 42° 	11101 - 264 06:16 - 20:12 42° 	12102 - 263 06:13 - 20:14 42° 	13103 - 262 06:11 - 20:16 43° 	14104 - 261 06:08 - 20:18 43° 	15105 - 260 06:06 - 20:20 43°
16106 - 259 06:03 - 20:22 44° 	17107 - 258 06:01 - 20:24 44° 	18108 - 257 05:58 - 20:26 44° 	19109 - 256 05:56 - 20:28 45° 	20110 - 255 05:53 - 20:30 45° 	21111 - 254 05:51 - 20:32 45° 	22112 - 253 05:48 - 20:34 46°
23113 - 252 05:46 - 20:37 46° 	24114 - 251 05:43 - 20:39 46° 	25115 - 250 05:41 - 20:41 47° 	26116 - 249 05:38 - 20:43 47° 	27117 - 248 05:36 - 20:45 47° 	28118 - 247 05:34 - 20:47 48° 	29119 - 246 05:31 - 20:49 48°
30120 - 245 05:29 - 20:51 48° 						

May 2018



Dundee
-2.97°E, 56.46°N



Duration of the day, for May 21

Sunrise and Sunset at Dundee (TL $\pm$ 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°

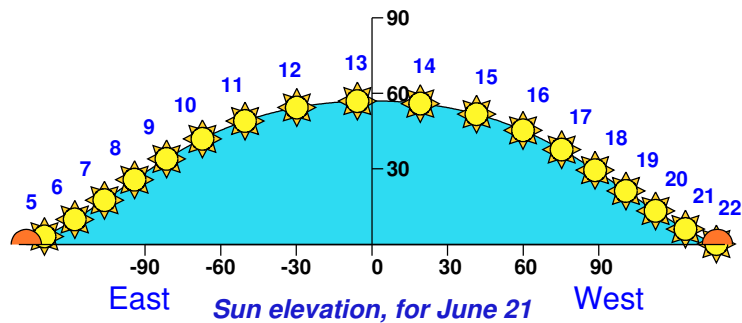
22

28 148 - 217
04:36 - 21:44 55°

29 149 - 216
04:35 - 21:45 55°

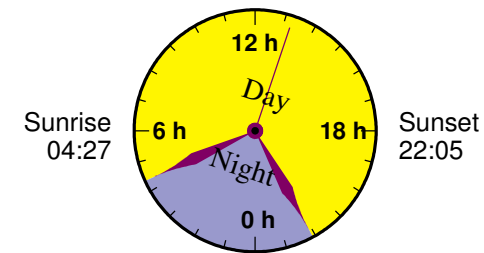
30 150 - 215
04:33 - 21:47 55°

31 151 - 214
04:32 - 21:48 55°



June 2018

Dundee
-2.97°E, 56.46°N



Duration of the day, for June 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

22

1 152 - 213 04:31 - 21:50 56° 	2 153 - 212 04:30 - 21:51 56° 	3 154 - 211 04:29 - 21:52 56°
---	---	---

23

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°
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24

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°
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25

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°
--	--	--	--	--	--	--

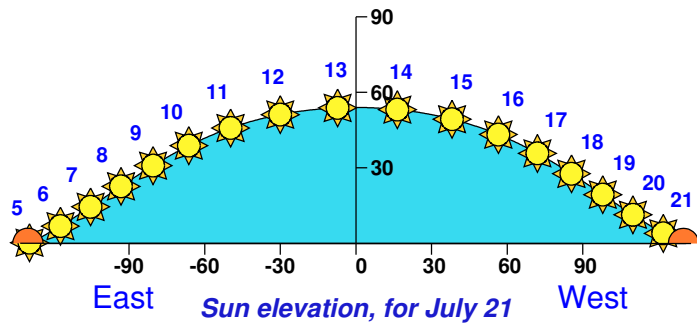
26

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°
--	--	--	--	--	--

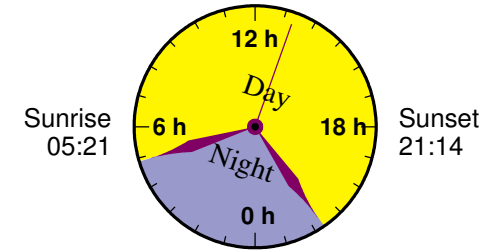
July 2018

Dundee

-2.97°E, 56.46°N



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



Duration of the day, for July 21

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

26

27

28

29

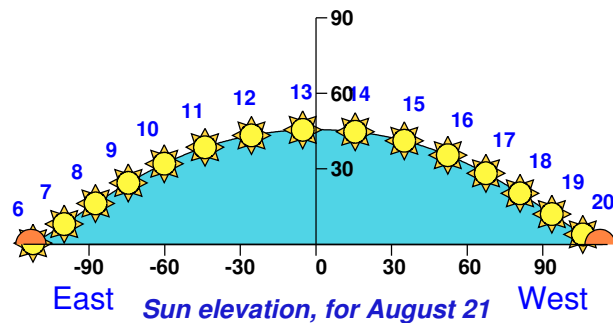
30

31

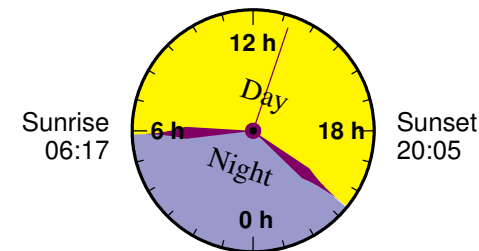
1 182 - 183
04:27 - 22:05 57°

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°					

August 2018



Dundee
-2.97°E, 56.46°N



Duration of the day, for August 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

31

32

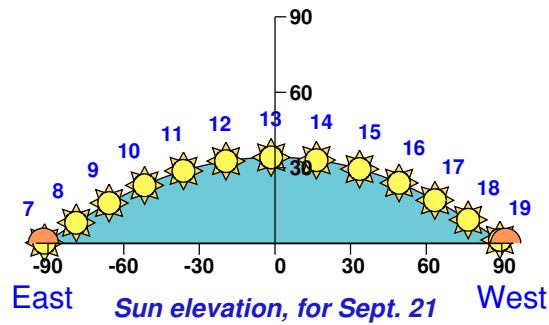
33

34

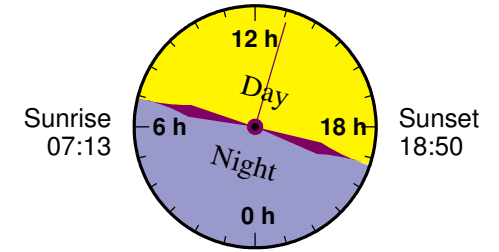
35

		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°
	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°
	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°
	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° 	

September 2018



Dundee
-2.97°E, 56.46°N



Duration of the day, for September 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

35

36

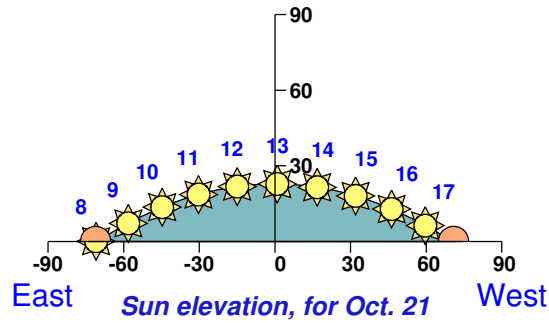
37

38

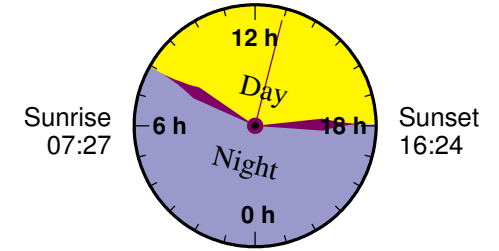
39

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°

October 2018



Dundee
-2.97°E, 56.46°N



Duration of the day, for October 21

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

Time change October 28

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

40

41

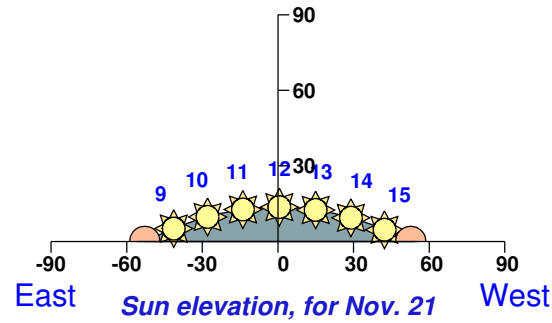
42

43

44

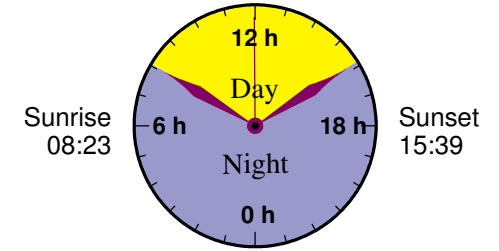
1 274 - 91 07:15 - 18:47 30° 	2 275 - 90 07:17 - 18:45 30° 	3 276 - 89 07:19 - 18:42 30° 	4 277 - 88 07:21 - 18:39 29° 	5 278 - 87 07:23 - 18:37 29° 	6 279 - 86 07:25 - 18:34 28° 	7 280 - 85 07:27 - 18:31 28°
8 281 - 84 07:29 - 18:29 28° 	9 282 - 83 07:31 - 18:26 27° 	10 283 - 82 07:33 - 18:24 27° 	11 284 - 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°
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°
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°
29 302 - 63 07:14 - 16:37 20° 	30 303 - 62 07:16 - 16:35 20° 	31 304 - 61 07:18 - 16:32 19° 				

November 2018



Dundee

-2.97°E, 56.46°N



Duration of the day, for November 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

44

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°

45

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°

46

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°

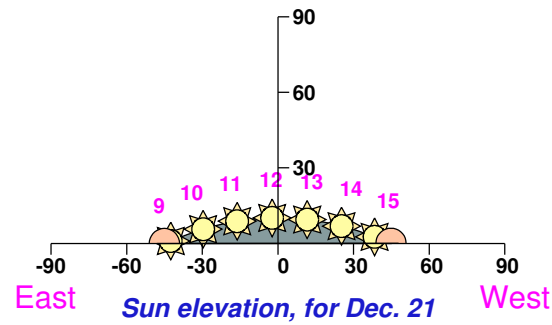
47

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°

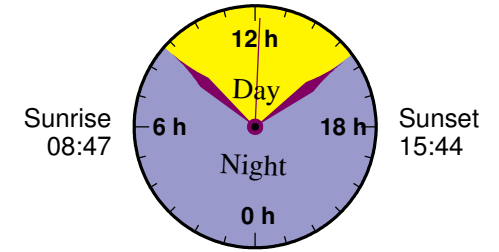
48

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°

December 2018



Dundee
-2.97°E, 56.46°N



Duration of the day, for December 21

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

Monday

Tuesday

Wednesday

Thursday

Friday

Saturday

Sunday

48

49

50

51

52

53

1 335 - 30 08:21 - 15:40 12° 	2 336 - 29 08:23 - 15:39 12°
3 337 - 28 08:25 - 15:38 11° 	4 338 - 27 08:26 - 15:38 11°
5 339 - 26 08:28 - 15:37 11° 	6 340 - 25 08:29 - 15:36 11°
7 341 - 24 08:31 - 15:36 11° 	8 342 - 23 08:32 - 15:35 11°
9 343 - 22 08:34 - 15:35 11° 	10 344 - 21 08:35 - 15:35 11°
11 345 - 20 08:36 - 15:34 11° 	12 346 - 19 08:37 - 15:34 11°
13 347 - 18 08:38 - 15:34 10° 	14 348 - 17 08:39 - 15:34 10°
15 349 - 16 08:40 - 15:34 10° 	16 350 - 15 08:41 - 15:34 10°
17 351 - 14 08:42 - 15:34 10° 	18 352 - 13 08:43 - 15:34 10°
19 353 - 12 08:44 - 15:35 10° 	20 354 - 11 08:44 - 15:35 10°
21 355 - 10 08:45 - 15:35 10° 	22 356 - 9 08:45 - 15:36 10°
23 357 - 8 08:46 - 15:36 10° 	24 358 - 7 08:46 - 15:37 10°
25 359 - 6 08:46 - 15:38 10° 	26 360 - 5 08:47 - 15:39 10°
27 361 - 4 08:47 - 15:40 10° 	28 362 - 3 08:47 - 15:40 10°
29 363 - 2 08:47 - 15:41 10° 	30 364 - 1 08:47 - 15:43 10°
31 365 - 0 08:47 - 15:44 11° 	