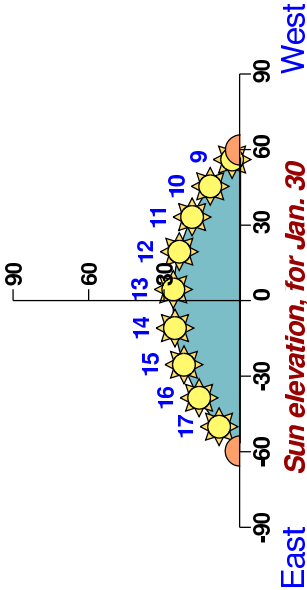


Sun Diary 2014

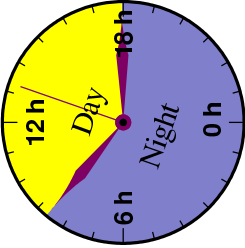
© Patrick ROBERT, PatCie, Déc. 2012

Week **1**

Dec. - Jan. 2015



Madrid
-3.702°E, 40.416°N



Duration of the day, for Dec. 29

Monday 30

Tuesday 31

Wednesday 1

Thursday 2

Friday 2

Saturday 3

Sunday 4

Sunrise and Sunset at Madrid (TL ± 1 mn)

363 - 2
08:38 - 17:57

363 - 2
08:38 - 17:58

363 - 2
08:38 - 17:59

363 - 2
08:38 - 18:00

362 - 3
08:38 - 18:00

362 - 3
08:38 - 18:01

362 - 3
08:38 - 18:01

9:19 **+0 m.** 26°

9:20 **+1 m.** 27°

9:21 **+2 m.** 27°

9:21 **+2 m.** 27°

9:21 **+3 m.** 27°

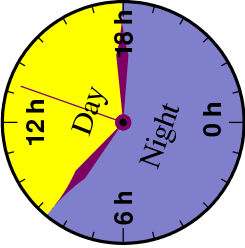
9:22 **+4 m.** 27°

9:23 **+5 m.** 27°

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

Week 53

Dec. - Jan. 2014



Madrid
-3.702°E, 40.416°N

East Sun elevation, for Jan. 29 West

Duration of the day, for Dec. 30

Monday 29

Tuesday 30

Wednesday 31

Thursday 1

Friday 3

Saturday 4

Sunday 5

Sunrise and Sunset at Madrid (TL ± 1 mn)

362 - 3

08:38 - 17:57

362 - 3

08:38 - 17:57

362 - 3

08:38 - 17:58

362 - 3

08:38 - 17:59

363 - 2

08:38 - 18:01

363 - 2

08:38 - 18:02

363 - 2

08:38 - 18:03

9:19

+1 m.

26°

9:19

+1 m.

26°

9:20

+2 m.

27°

9:20

+2 m.

27°

9:22

+3 m.

27°

9:23

+4 m.

27°

9:24

+5 m.

27°

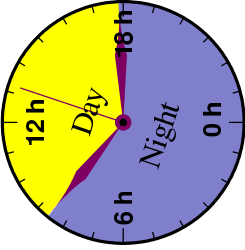
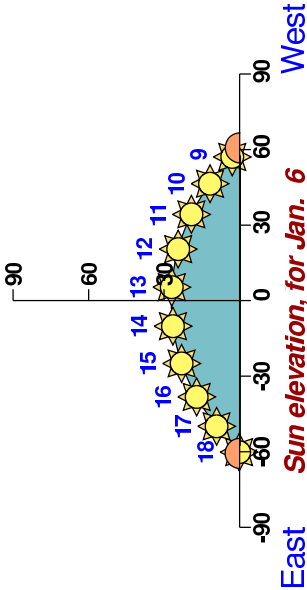
Duration of the day - Variation - Sun maximal elevation (°)

Week 2

December 2014

Madrid

-3.702°E, 40.416°N



Duration of the day, for Dec. 22

Monday 6

Tuesday 7

Wednesday 8

Thursday 9

Friday 26

Saturday 27

Sunday 28

Sunrise and Sunset at Madrid (TL ± 1 mn)

5 - 360
08:38 - 18:04

5 - 360
08:38 - 18:05

5 - 360
08:38 - 18:06

5 - 360
08:38 - 18:07

355 - 10
08:37 - 17:54

355 - 10
08:37 - 17:55

355 - 10
08:37 - 17:56

9:25

+1 m.

27°

9:26

+2 m.

27°

9:27

+3 m.

27°

9:28

+4 m.

28°

9:17

+0 m.

26°

9:18

+1 m.

26°

9:18

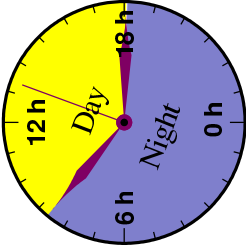
+1 m.

26°

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

Week 52

January 2014



Madrid
-3.702°E, 40.416°N

East Sun elevation, for Dec. 22 West

Duration of the day, for Jan. 6

Monday 22

Tuesday 23

Wednesday 24

Thursday 25

Friday 10

Saturday 11

Sunday 12

Sunrise and Sunset at Madrid (TL ± 1 mn)

355 - 10

08:35 - 17:52

355 - 10

08:35 - 17:53

355 - 10

08:36 - 17:53

355 - 10

08:36 - 17:54

5 - 360

08:38 - 18:08

5 - 360

08:37 - 18:09

5 - 360

08:37 - 18:10

9:17

+0 m.

26°

9:17

+0 m.

26°

9:17

+0 m.

26°

9:17

+0 m.

26°

9:29

+5 m.

28°

9:31

+7 m.

28°

9:32

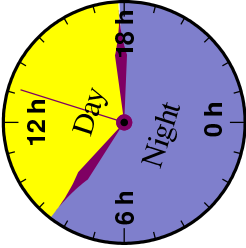
+8 m.

28°

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

Week **3**

December 2014



Madrid

-3.702°E, 40.416°N

East **Sun elevation, for Jan. 13** West

Duration of the day, for Dec. 13

Monday **13**

Tuesday **14**

Wednesday **15**

Thursday **16**

Friday **19**

Saturday **20**

Sunday **21**

Sunrise and Sunset at Madrid (TL ± 1 mn)

12 - 353

08:37 - 18:11

12 - 353

08:37 - 18:12

12 - 353

08:36 - 18:13

12 - 353

08:36 - 18:14

348 - 17

08:33 - 17:51

348 - 17

08:34 - 17:51

348 - 17

08:34 - 17:52

9:33

+1 m.

28°

9:35

+3 m.

28°

9:36

+4 m.

29°

9:38

+6 m.

29°

9:17

-2 m.

26°

9:17

-2 m.

26°

9:17

-2 m.

26°

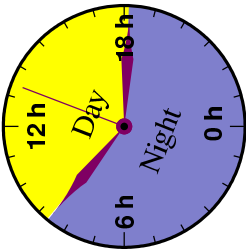
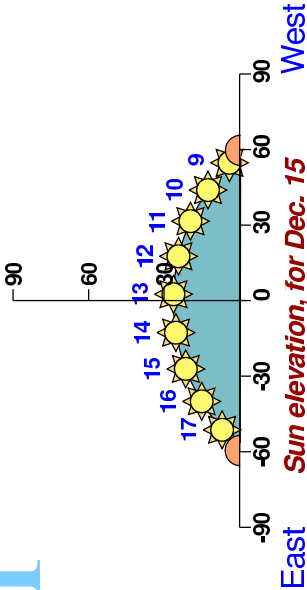
Duration of the day - Variation - Sun maximal elevation (°)

Week 51

January 2014

Madrid

-3.702°E, 40.416°N



Duration of the day, for Jan. 13

Monday 15

Tuesday 16

Wednesday 17

Thursday 18

Friday 17

Saturday 18

Sunday 19

Sunrise and Sunset at Madrid (TL ± 1 mn)

348 - 17

08:31 - 17:49

348 - 17

08:31 - 17:50

348 - 17

08:32 - 17:50

348 - 17

08:33 - 17:50

12 - 353

08:35 - 18:15

12 - 353

08:35 - 18:16

12 - 353

08:34 - 18:17

9:18

-1 m.

26°

9:18

-1 m.

26°

9:17

-2 m.

26°

9:17

-2 m.

26°

9:39

+7 m.

29°

9:41

+9 m.

29°

9:43

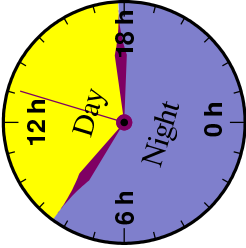
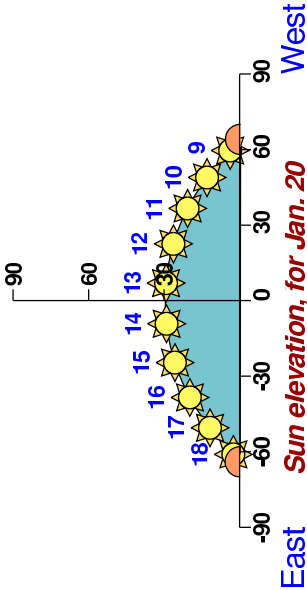
+11 m.

29°

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

Week 4

December 2014



Madrid
-3.702°E, 40.416°N

Duration of the day, for Dec. 8

Monday 20

Tuesday 21

Wednesday 22

Thursday 23

Friday 12

Saturday 13

Sunday 14

Sunrise and Sunset at Madrid (TL ± 1 mn)

19 - 346
08:34 - 18:19

19 - 346
08:33 - 18:20

19 - 346
08:33 - 18:21

19 - 346
08:32 - 18:22

341 - 24
08:29 - 17:49

341 - 24
08:29 - 17:49

341 - 24
08:30 - 17:49

9:44 +1 m.

30°

9:46

+3 m.

30°

9:48

+5 m.

30°

9:50

+7 m.

30°

9:20

-4 m.

27°

9:19

-5 m.

26°

9:19

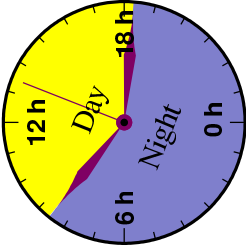
-5 m.

26°

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

Week 50

January 2014



Madrid
-3.702°E, 40.416°N

East Sun elevation, for Dec. 8 West

Duration of the day, for Jan. 20

Monday 8

Tuesday 9

Wednesday 10

Thursday 11

Friday 24

Saturday 25

Sunday 26

Sunrise and Sunset at Madrid (TL ± 1 mn)

341 - 24
08:25 - 17:48

341 - 24
08:26 - 17:48

341 - 24
08:27 - 17:48

341 - 24
08:28 - 17:48

19 - 346
08:31 - 18:23

19 - 346
08:30 - 18:25

19 - 346
08:30 - 18:26

9:23

-1 m.

27°

9:22

-2 m.

27°

9:21

-3 m.

27°

9:20

-4 m.

27°

9:52

+9 m.

30°

9:54

+11 m.

31°

9:56

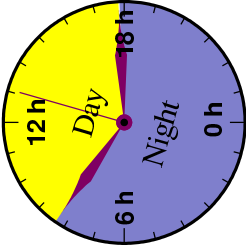
+13 m.

31°

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

Week **5**

December 2014



Madrid

-3.702°E, 40.416°N

East **Sun elevation, for Feb. 27** West

Duration of the day, for Dec. 1

Monday **27**

Tuesday **28**

Wednesday **29**

Thursday **30**

Friday **5**

Saturday **6**

Sunday **7**

Sunrise and Sunset at Madrid (TL ± 1 mn)

26 - 339
08:29 - 18:27

26 - 339
08:28 - 18:28

26 - 339
08:27 - 18:29

26 - 339
08:26 - 18:31

334 - 31
08:22 - 17:48

334 - 31
08:23 - 17:48

334 - 31
08:24 - 17:48

9:58

+2 m.

31 °

10:00

+4 m.

31 °

10:02

+6 m.

32 °

10:04

+8 m.

32 °

9:26

-5 m.

27 °

9:25

-6 m.

27 °

9:24

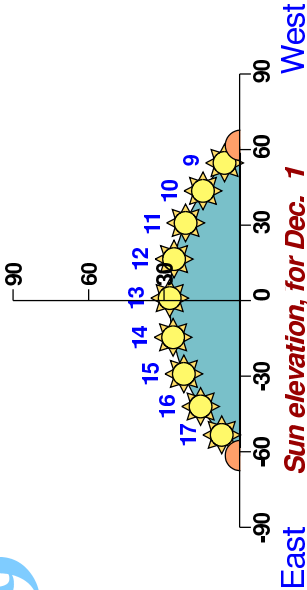
-7 m.

27 °

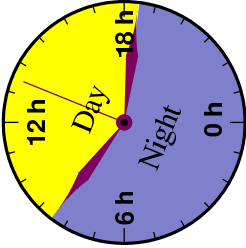
Duration of the day - Variation - Sun maximal elevation (°)

Week **49**

Jan. - Feb. 2014



Madrid
-3.702°E, 40.416°N



Duration of the day, for Jan. 27

Monday 1

Tuesday 2

Wednesday 3

Thursday 4

Friday 31

Saturday 1

Sunday 2

Sunrise and Sunset at Madrid (TL ± 1 mn)

334 - 31
08:19 - 17:49

334 - 31
08:20 - 17:49

334 - 31
08:21 - 17:49

334 - 31
08:22 - 17:49

26 - 339
08:25 - 18:32

26 - 339
08:25 - 18:33

26 - 339
08:24 - 18:34

9:30 **-1 m.** 28°

9:29 **-2 m.** 28°

9:28 **-3 m.** 27°

9:27 **-4 m.** 27°

10:06 **+10 m.** 32°

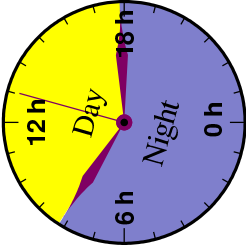
10:09 **+13 m.** 33°

10:11 **+15 m.** 33°

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

Week 6

November 2014



Madrid
-3.702°E, 40.416°N

East Sun elevation, for Feb. 3 West

Duration of the day, for Nov. 24

Monday 3

Tuesday 4

Wednesday 5

Thursday 6

Friday 28

Saturday 29

Sunday 30

Sunrise and Sunset at Madrid (TL ± 1 mn)

33 - 332
08:23 - 18:35

33 - 332
08:22 - 18:37

33 - 332
08:20 - 18:38

33 - 332
08:19 - 18:39

327 - 38
08:15 - 17:50

327 - 38
08:16 - 17:50

327 - 38
08:18 - 17:49

10:13 +2 m. 33°

10:15 +4 m. 33°

10:18 +7 m. 34°

10:20 +9 m. 34°

9:34 -8 m. 28°

9:33

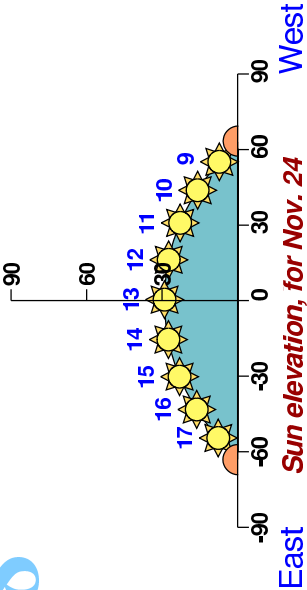
-9 m. 28°

-11 m. 28°

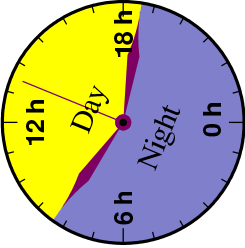
Duration of the day - Variation - Sun maximal elevation (°)

Week 48

February 2014



Madrid
-3.702°E, 40.416°N



Duration of the day, for Feb. 3

Monday 24

Tuesday 25

Wednesday 26

Thursday 27

Friday 7

Saturday 8

Sunday 9

Sunrise and Sunset at Madrid (TL ± 1 mn)

327 - 38
08:11 - 17:52

327 - 38
08:12 - 17:51

327 - 38
08:13 - 17:51

327 - 38
08:14 - 17:50

33 - 332
08:18 - 18:40

33 - 332
08:17 - 18:42

33 - 332
08:16 - 18:43

9:40

-2 m.

29°

9:39

-3 m.

29°

9:37

-5 m.

29°

9:36

-6 m.

28°

10:22

+11 m.

34°

10:24

+13 m.

35°

10:27

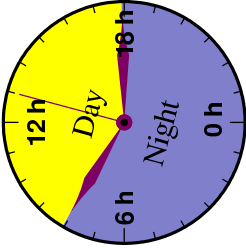
+16 m.

35°

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

Week 7

November 2014



Madrid
-3.702°E, 40.416°N

East **Sun elevation, for Feb. 10** West

Duration of the day, for Nov. 17

Monday 10

Tuesday 11

Wednesday 12

Thursday 13

Friday 21

Saturday 22

Sunday 23

Sunrise and Sunset at Madrid (TL ± 1 mn)

40 - 325
08:15 - 18:44

40 - 325
08:14 - 18:45

40 - 325
08:12 - 18:46

40 - 325
08:11 - 18:48

320 - 45
08:08 - 17:54

320 - 45
08:09 - 17:53

320 - 45
08:10 - 17:52

10:29

+2 m.

35°

10:32

+5 m.

36°

10:34

+7 m.

36°

10:36

+9 m.

36°

9:45

-10 m.

30°

9:44

-11 m.

29°

9:42

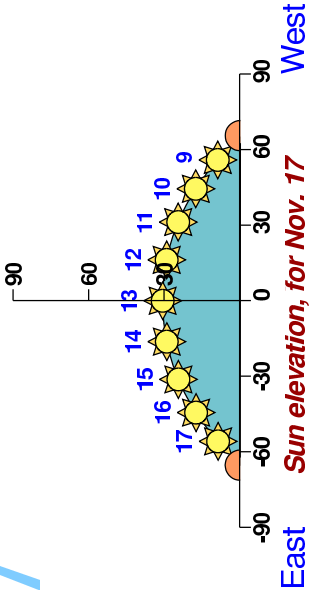
-13 m.

29°

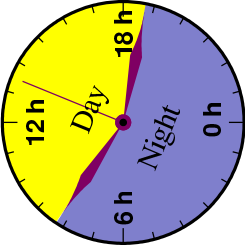
Duration of the day - Variation - Sun maximal elevation (°)

Week 47

February 2014



Madrid
-3.702°E, 40.416°N



Duration of the day, for Feb. 10

Monday 17

Tuesday 18

Wednesday 19

Thursday 20

Friday 14

Saturday 15

Sunday 16

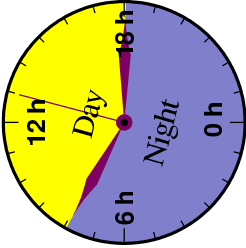
Sunrise and Sunset at Madrid (TL ± 1 mn)

320 - 45 08:03 - 17:56		320 - 45 08:04 - 17:56		320 - 45 08:05 - 17:55		320 - 45 08:07 - 17:54		40 - 325 08:10 - 18:49		40 - 325 08:09 - 18:50		40 - 325 08:07 - 18:51	
9:53 -2 m.	31 °	9:51 -4 m.	30 °	9:49 -6 m.	30 °	9:47 -8 m.	30 °	10:39 +12 m.	37 °	10:41 +14 m.	37 °	10:44 +17 m.	37 °

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

Week 8

November 2014



Madrid
-3.702°E, 40.416°N

East Sun elevation, for Feb. 17 West

Duration of the day, for Nov. 10

Monday 17

Tuesday

18

Wednesday

19

Thursday

20

Friday

14

Saturday

15

Sunday

16

Sunrise and Sunset at Madrid (TL ± 1 mn)

47 - 318
08:06 - 18:52

10:46

+2 m.

38°

10:49

+5 m.

38°

10:51

+7 m.

38°

10:54

+10 m.

39°

47 - 318
08:06 - 18:52

47 - 318
08:05 - 18:54

47 - 318
08:03 - 18:55

47 - 318
08:02 - 18:56

313 - 52
08:00 - 17:59

313 - 52
08:01 - 17:58

313 - 52
08:02 - 17:57

10:46

+2 m.

38°

10:49

+5 m.

38°

10:51

+7 m.

38°

10:54

+10 m.

39°

9:59

-10 m.

31°

9:57

-12 m.

31°

9:55

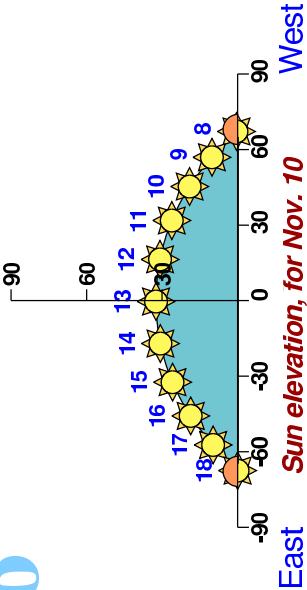
-14 m.

31°

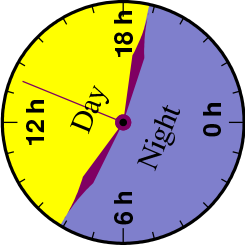
Duration of the day - Variation - Sun maximal elevation (°)

Week 46

February 2014



Madrid
-3.702°E, 40.416°N



Duration of the day, for Feb. 17

Monday 10

Tuesday 11

Wednesday 12

Thursday 13

Friday 21

Saturday 22

Sunday 23

Sunrise and Sunset at Madrid (TL ± 1 mn)

313 - 52
07:55 - 18:02

313 - 52
07:56 - 18:01

313 - 52
07:57 - 18:00

313 - 52
07:59 - 18:00

47 - 318
08:01 - 18:57

47 - 318
07:59 - 18:58

47 - 318
07:58 - 18:59

10:07

-2 m.

32°

10:05

-4 m.

32°

10:03

-6 m.

32°

10:01

-8 m.

32°

10:57

+13 m.

39°

10:59

+15 m.

39°

11:02

+18 m.

40°

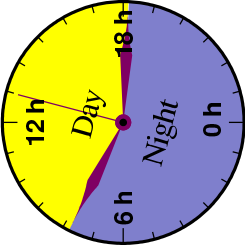
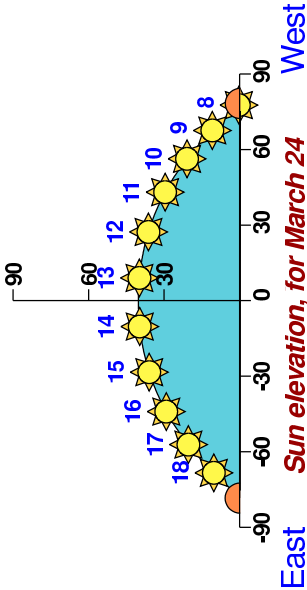
Duration of the day - Variation - Sun maximal elevation (°)

Week 9

November 2014

Madrid

-3.702°E, 40.416°N



East Sun elevation, for March 24 West

Duration of the day, for Nov. 3

Monday 24

Tuesday 25

Wednesday 26

Thursday 27

Friday 7

Saturday 8

Sunday 9

Sunrise and Sunset at Madrid (TL ± 1 mn)

54 - 311

07:56 - 19:01

54 - 311

07:55 - 19:02

54 - 311

07:53 - 19:03

54 - 311

07:52 - 19:04

306 - 59

07:52 - 18:05

306 - 59

07:53 - 18:04

306 - 59

07:54 - 18:03

11:04

+2 m.

40°

11:07

+5 m.

41°

11:10

+8 m.

41°

11:12

+10 m.

41°

10:14

-11 m.

33°

10:12

-13 m.

33°

10:09

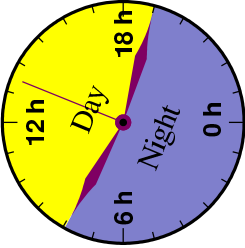
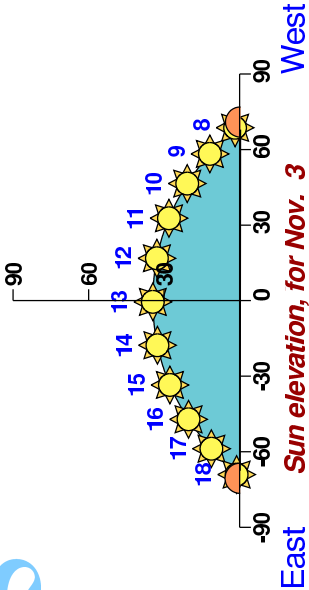
-16 m.

33°

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

Week 45

Feb. - March 2014



Madrid
-3.702°E, 40.416°N

Duration of the day, for Feb. 24

Monday 3

Tuesday 4

Wednesday 5

Thursday 6

Friday 28

Saturday 1

Sunday 2

Sunrise and Sunset at Madrid (TL ± 1 mn)

306 - 59
07:47 - 18:10

306 - 59
07:48 - 18:09

306 - 59
07:49 - 18:07

306 - 59
07:50 - 18:06

54 - 311
07:50 - 19:05

54 - 311
07:49 - 19:06

54 - 311
07:47 - 19:07

10:23

-2 m.

34°

10:21

-4 m.

34°

10:18

-7 m.

34°

10:16

-9 m.

34°

11:15

+13 m.

42°

11:17

+15 m.

42°

11:20

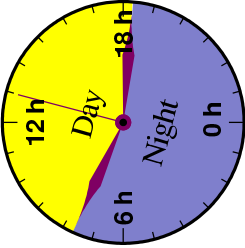
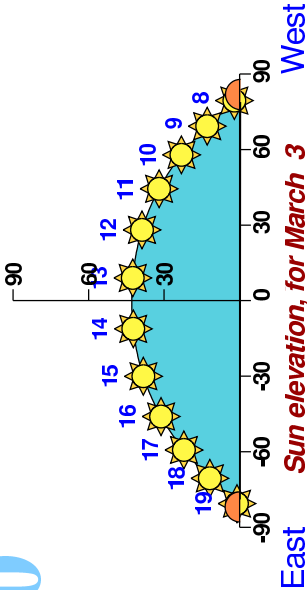
+18 m.

42°

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

Week 10

Oct. - Nov. 2014



Madrid
-3.702°E, 40.416°N

Duration of the day, for Oct. 27

Monday 3

Tuesday 4

Wednesday 5

Thursday 6

Friday 31

Saturday 1

Sunday 2

Sunrise and Sunset at Madrid (TL ± 1 mn)

61 - 304
07:46 - 19:09

61 - 304
07:44 - 19:10

61 - 304
07:43 - 19:11

61 - 304
07:41 - 19:12

299 - 66
07:43 - 18:13

299 - 66
07:45 - 18:12

299 - 66
07:46 - 18:11

11:23 +3 m. 43°

11:25 +5 m. 43°

11:28 +8 m. 44°

11:31 +11 m. 44°

10:30

10:28

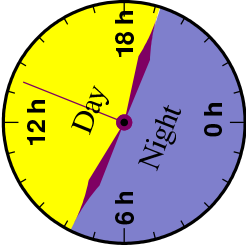
-14 m. 35°

-17 m. 35°

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

Week 44

March 2014



Madrid
-3.702°E, 40.416°N

East Sun elevation, for Nov. 27 West

Duration of the day, for March 3

Monday 27

Tuesday 28

Wednesday 29

Thursday 30

Friday 7

Saturday 8

Sunday 9

Sunrise and Sunset at Madrid (TL ± 1 mn)

299 - 66
07:39 - 18:18

299 - 66
07:40 - 18:17

299 - 66
07:41 - 18:16

299 - 66
07:42 - 18:15

61 - 304
07:40 - 19:13

61 - 304
07:38 - 19:14

61 - 304
07:37 - 19:15

10:40

-2 m.

37°

10:37

-5 m.

36°

10:35

-7 m.

36°

10:32

-10 m.

36°

11:33

+13 m.

44°

11:36

+16 m.

45°

11:39

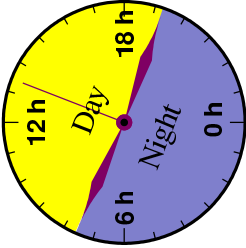
+19 m.

45°

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

Week 43

March 2014



Madrid
-3.702°E, 40.416°N

East Sun elevation, for Oct. 20 West

Duration of the day, for March 10

Monday 20

Tuesday 21

Wednesday 22

Thursday 23

Friday 14

Saturday 15

Sunday 16

Sunrise and Sunset at Madrid (TL ± 1 mn)

292 - 73
08:31 - 19:28

292 - 73
08:32 - 19:27

292 - 73
08:33 - 19:25

292 - 73
08:34 - 19:24

68 - 297
07:29 - 19:21

68 - 297
07:27 - 19:22

68 - 297
07:25 - 19:23

10:57

-3 m.

39°

10:55

-5 m.

39°

10:52

-8 m.

38°

10:49

-11 m.

38°

11:52

+13 m.

47°

11:55

+16 m.

48°

11:57

+18 m.

48°

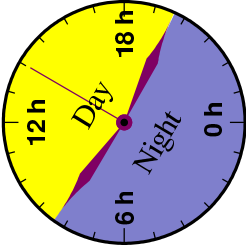
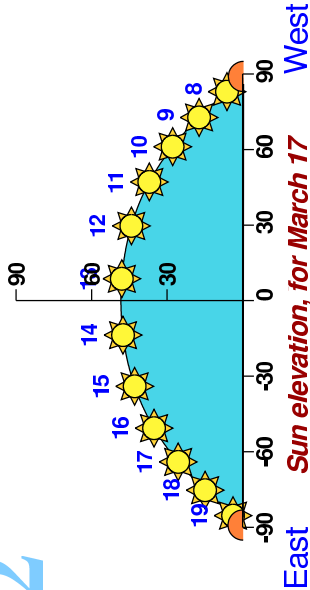
Duration of the day - Variation - Sun maximal elevation (°)

Week 12

October 2014

Madrid

-3.702°E, 40.416°N



East Sun elevation, for March 17 West

-3.702°E, 40.416°N

Duration of the day, for Oct. 13

Monday 17

Tuesday 18

Wednesday 19

Thursday 20

Friday 17

Saturday 18

Sunday 19

Sunrise and Sunset at Madrid (TL ± 1 mn)

75 - 290
07:24 - 19:24

75 - 290
07:22 - 19:25

75 - 290
07:20 - 19:26

75 - 290
07:19 - 19:27

285 - 80
08:28 - 19:32

285 - 80
08:29 - 19:31

285 - 80
08:30 - 19:29

12:00 +3 m. 48°

12:03 +6 m. 49°

12:05 +8 m. 49°

12:08 +11 m. 50°

11:05 -13 m. 40°

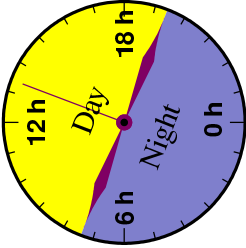
11:02 -16 m. 40°

11:00 -18 m. 40°

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

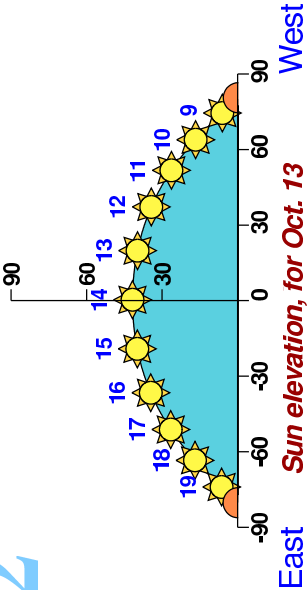
Week 42

March 2014



Madrid
-3.702°E, 40.416°N

Duration of the day, for March 17



Monday 13

Tuesday 14

Wednesday 15

Thursday 16

Friday 21

Saturday 22

Sunday 23

Sunrise and Sunset at Madrid (TL ± 1 mn)

285 - 80
08:23 - 19:38

285 - 80
08:25 - 19:37

285 - 80
08:26 - 19:35

285 - 80
08:27 - 19:34

75 - 290
07:17 - 19:28

75 - 290
07:15 - 19:29

75 - 290
07:14 - 19:30

11:15

-3 m.

42°

11:12

-6 m.

41°

11:10

-8 m.

41°

11:07

-11 m.

41°

12:11

+14 m.

50°

12:14

+17 m.

50°

12:16

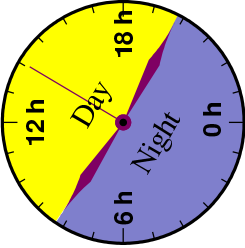
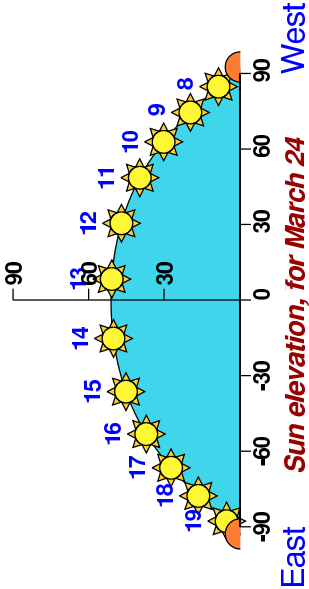
+19 m.

51°

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

Week 13

October 2014



Madrid
-3.702°E, 40.416°N

Duration of the day, for Oct. 6

Monday 24

Tuesday 25

Wednesday 26

Thursday 27

Friday 10

Saturday 11

Sunday 12

Sunrise and Sunset at Madrid (TL ± 1 mn)

82 - 283
07:12 - 19:31

82 - 283
07:11 - 19:32

82 - 283
07:09 - 19:33

82 - 283
07:07 - 19:34

278 - 87
08:20 - 19:43

278 - 87
08:21 - 19:41

278 - 87
08:22 - 19:40

12:19 +3 m. 51°

12:22 +6 m. 51°

12:24 +8 m. 52°

12:27 +11 m. 52°

11:23

11:20

11:18

42°

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

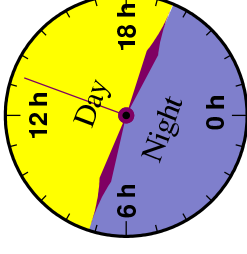
East **Sun elevation, for Oct. 6** **West**

90° 90°

9 10 11 12 13 14 15 16 17 18 19

90° 30° 0° 30° 90°

-3.702°E, 40.416°N



East Sun elevation, for Oct. 6 West

Duration of the day, for Marco

30 Sunday

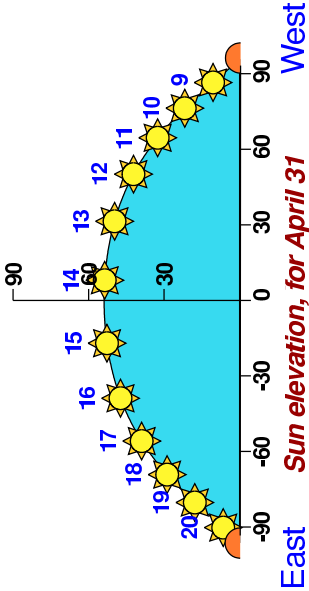
Sunrise and Sunset at Madrid ($TL \pm 1\text{ mn}$)

[illegible]

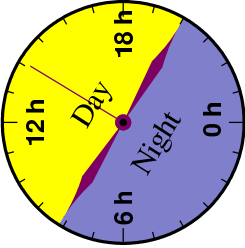
Duration of the day - Variation - Sun maximal elevation (°)

Week 14

Sept. - Oct. 2014



Madrid
-3.702°E, 40.416°N



Duration of the day, for Sept. 29

Monday 31

Tuesday 1

Wednesday 2

Thursday 3

Friday 3

Saturday 4

Sunday 5

Sunrise and Sunset at Madrid (TL ± 1 mn)

89 - 276

08:01 - 20:38

89 - 276

07:59 - 20:39

89 - 276

07:57 - 20:40

89 - 276

07:56 - 20:41

271 - 94

08:13 - 19:54

271 - 94

08:14 - 19:53

271 - 94

08:15 - 19:51

12:38

+3 m.

54°

12:40

+5 m.

54°

12:43

+8 m.

55°

12:46

+11 m.

55°

11:41

-13 m.

46°

11:38

-16 m.

45°

11:36

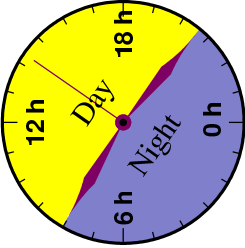
-18 m.

45°

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

Week 40

March - April 2014



Madrid
-3.702°E, 40.416°N

East Sun elevation, for Oct. 29 West

Duration of the day, for March 31

Monday 29

Tuesday 30

Wednesday 1

Thursday 2

Friday 4

Saturday 5

Sunday 6

Sunrise and Sunset at Madrid (TL ± 1 mn)

271 - 94
08:09 - 20:01

271 - 94
08:10 - 19:59

271 - 94
08:11 - 19:57

271 - 94
08:12 - 19:56

89 - 276
07:54 - 20:42

89 - 276
07:53 - 20:43

89 - 276
07:51 - 20:45

11:52

-2 m.

47°

11:49

-5 m.

47°

11:46

-8 m.

46°

11:44

-10 m.

46°

12:48

+13 m.

55°

12:51

+16 m.

56°

12:54

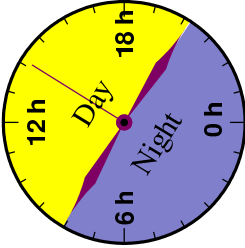
+19 m.

56°

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

Week 15

September 2014



Madrid
-3.702°E, 40.416°N

East Sun elevation, for April 7 West

Duration of the day, for Sept. 22

Monday 7

Tuesday 8

Wednesday 9

Thursday 10

Friday 26

Saturday 27

Sunday 28

Sunrise and Sunset at Madrid (TL ± 1 mn)

96 - 269
07:49 - 20:46

96 - 269
07:48 - 20:47

96 - 269
07:46 - 20:48

96 - 269
07:45 - 20:49

264 - 101
08:06 - 20:06

264 - 101
08:07 - 20:04

264 - 101
08:08 - 20:02

12:56

+2 m.

57°

12:59

+5 m.

57°

13:01

+7 m.

57°

13:04

+10 m.

58°

12:00

-13 m.

48°

11:57

-16 m.

48°

11:54

-19 m.

47°

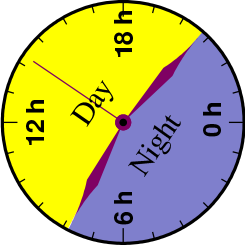
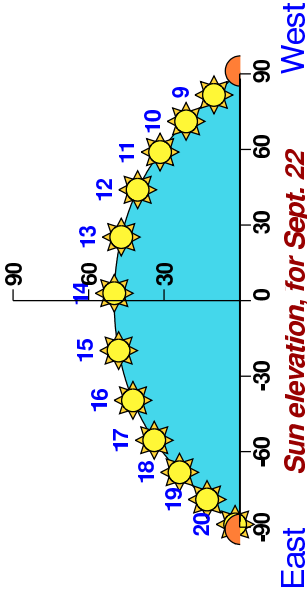
Duration of the day - Variation - Sun maximal elevation (°)

Week 39

April 2014

Madrid

-3.702°E, 40.416°N



Duration of the day, for April 7

Duration of the day, for April 7

Monday 22

Tuesday 23

Wednesday 24

Thursday 25

Friday 11

Saturday 12

Sunday 13

Sunrise and Sunset at Madrid (TL ± 1 mn)

264 - 101

08:02 - 20:12

264 - 101

08:03 - 20:11

264 - 101

08:04 - 20:09

264 - 101

08:05 - 20:07

96 - 269

07:43 - 20:50

96 - 269

07:42 - 20:51

96 - 269

07:40 - 20:52

12:10

-3 m.

50°

12:08

-5 m.

49°

12:05

-8 m.

49°

12:02

-11 m.

49°

13:07

+13 m.

58°

13:09

+15 m.

58°

13:12

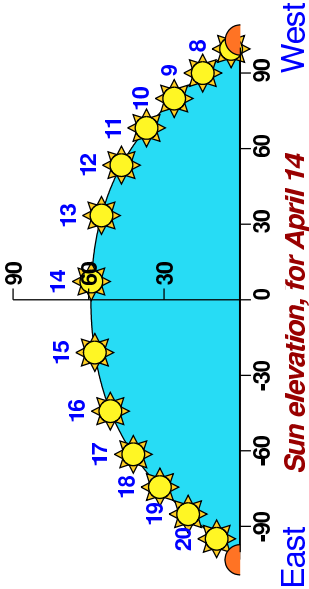
+18 m.

59°

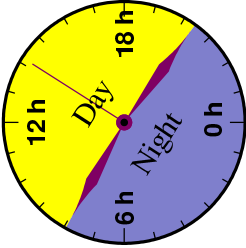
Duration of the day - Variation - Sun maximal elevation (°)

Week 16

September 2014



Madrid
-3.702°E, 40.416°N



Duration of the day, for Sept. 15

Monday 14

Tuesday 15

Wednesday 16

Thursday 17

Friday 19

Saturday 20

Sunday 21

Sunrise and Sunset at Madrid (TL ± 1 mn)

103 - 262
07:38 - 20:53

103 - 262
07:37 - 20:54

103 - 262
07:35 - 20:55

103 - 262
07:34 - 20:56

257 - 108
07:59 - 20:17

257 - 108
08:00 - 20:16

257 - 108
08:01 - 20:14

13:14 +2 m. 59°

13:17 +5 m. 59°

13:19 +7 m. 60°

13:22 +10 m. 60°

12:18 -13 m. 51°

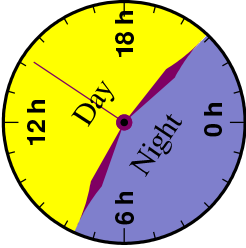
12:15 -16 m. 51°

12:13 -18 m. 50°

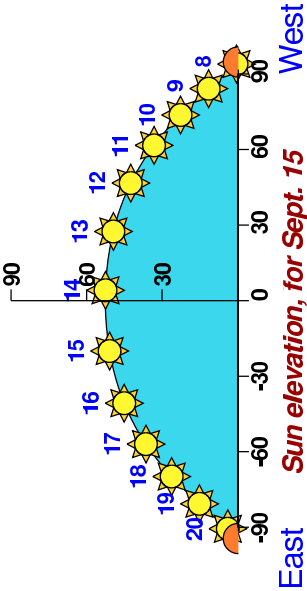
Duration of the day - Variation - Sun maximal elevation (°)

Week 38

April 2014



Madrid
-3.702°E, 40.416°N



Duration of the day, for April 14

Monday 15

Tuesday 16

Wednesday 17

Thursday 18

Friday 18

Saturday 19

Sunday 20

Sunrise and Sunset at Madrid (TL ± 1 mn)

257 - 108
07:56 - 20:24

257 - 108
07:56 - 20:23

257 - 108
07:57 - 20:21

257 - 108
07:58 - 20:19

103 - 262
07:32 - 20:57

103 - 262
07:31 - 20:58

103 - 262
07:30 - 20:59

12:29

-2 m.

53°

12:26

-5 m.

52°

12:24

-7 m.

52°

12:21

-10 m.

51°

13:25

+13 m.

60°

13:27

+15 m.

61°

13:29

+17 m.

61°

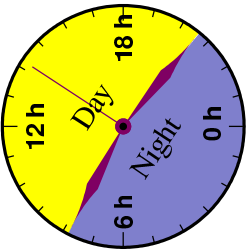
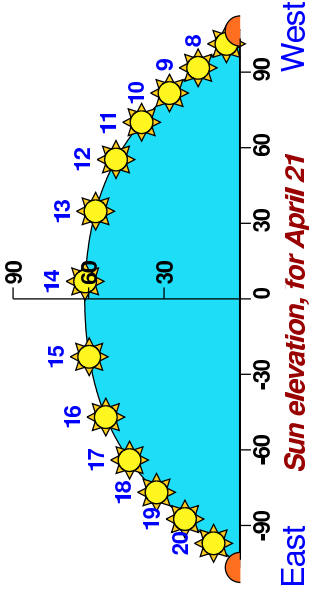
Duration of the day - Variation - Sun maximal elevation (°)

Week **17**

September 2014

Madrid

-3.702°E, 40.416°N



Duration of the day, for Sept. 8

Monday **21**

Tuesday **22**

Wednesday **23**

Thursday **24**

Friday **12**

Saturday **13**

Sunday **14**

Sunrise and Sunset at Madrid (TL ± 1 mn)

110 - 255
07:28 - 21:00

110 - 255
07:27 - 21:01

110 - 255
07:25 - 21:02

110 - 255
07:24 - 21:03

250 - 115
07:53 - 20:29

250 - 115
07:54 - 20:28

250 - 115
07:55 - 20:26

13:32

+3 m.

62°

13:35

+6 m.

62°

13:37

+8 m.

62°

13:39

+10 m.

63°

12:37

-13 m.

54°

12:34

-16 m.

53°

12:31

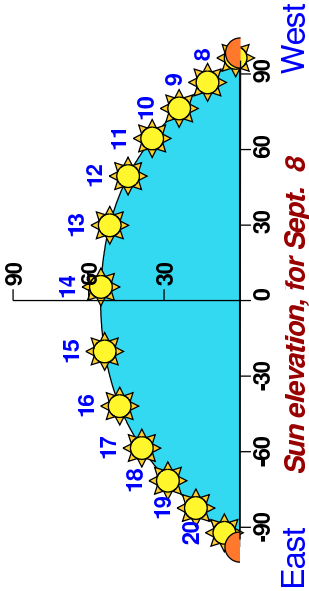
-19 m.

53°

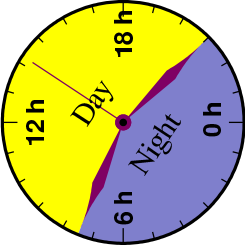
Duration of the day - Variation - Sun maximal elevation (°)

Week 37

April 2014



Madrid
-3.702°E, 40.416°N



Duration of the day, for April 21

Monday 8

Tuesday 9

Wednesday 10

Thursday 11

Friday 25

Saturday 26

Sunday 27

Sunrise and Sunset at Madrid (TL ± 1 mn)

250 - 115
07:49 - 20:36

250 - 115
07:50 - 20:34

250 - 115
07:51 - 20:33

250 - 115
07:52 - 20:31

110 - 255
07:22 - 21:04

110 - 255
07:21 - 21:05

110 - 255
07:20 - 21:06

12:47

-3 m.

55°

12:45

-5 m.

55°

12:42

-8 m.

54°

12:39

-11 m.

54°

13:42

+13 m.

63°

13:44

+15 m.

63°

13:47

+18 m.

63°

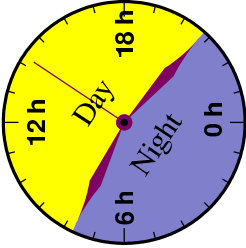
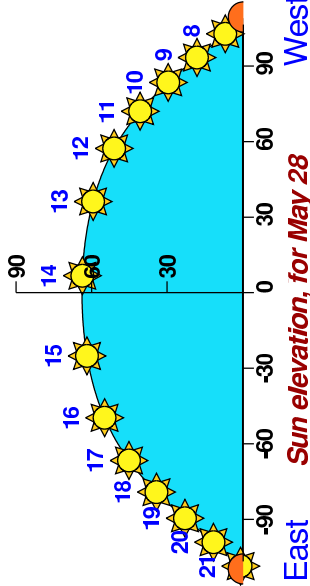
Duration of the day - Variation - Sun maximal elevation (°)

Week 18

September 2014

Madrid

-3.702°E, 40.416°N



Duration of the day, for Sept. 1

Monday 28

Tuesday 29

Wednesday 30

Thursday 1

Friday 5

Saturday 6

Sunday 7

Sunrise and Sunset at Madrid (TL ± 1 mn)

117 - 248
07:18 - 21:07

117 - 248
07:17 - 21:08

117 - 248
07:16 - 21:09

117 - 248
07:14 - 21:10

243 - 122
07:46 - 20:41

243 - 122
07:47 - 20:39

243 - 122
07:48 - 20:37

13:49

+2 m.

64°

13:51

+4 m.

64°

13:54

+7 m.

64°

13:56

+9 m.

65°

12:55

-13 m.

56°

12:52

-16 m.

56°

12:50

-18 m.

56°

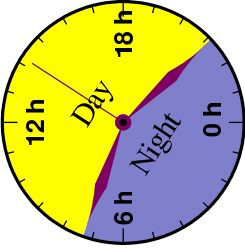
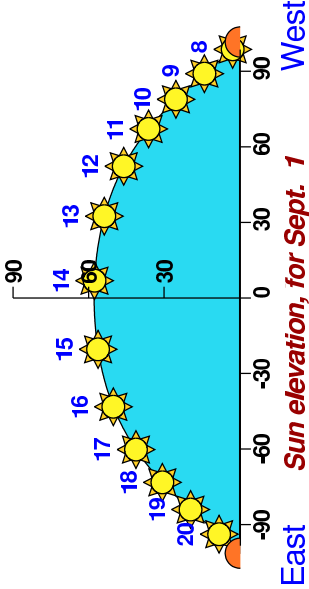
Duration of the day - Variation - Sun maximal elevation (°)

Week 36

April - May 2014

Madrid

-3.702°E, 40.416°N



Duration of the day, for April 28

Monday 1

Tuesday 2

Wednesday 3

Thursday 4

Friday 2

Saturday 3

Sunday 4

Sunrise and Sunset at Madrid (TL ± 1 mn)

243 - 122
07:42 - 20:47

243 - 122
07:43 - 20:46

243 - 122
07:44 - 20:44

243 - 122
07:45 - 20:42

117 - 248
07:13 - 21:11

117 - 248
07:12 - 21:12

117 - 248
07:11 - 21:13

13:05

-3 m.

58°

13:03

-5 m.

57°

13:00

-8 m.

57°

12:58

-10 m.

57°

13:58

+11 m.

65°

14:01

+14 m.

65°

14:03

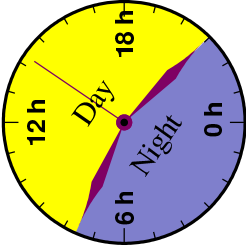
+16 m.

66°

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

Week 19

August 2014



Madrid

-3.702°E, 40.416°N

East Sun elevation, for May 5 West

Duration of the day, for Aug. 25

Monday 5

Tuesday 6

Wednesday 7

Thursday 8

Friday 29

Saturday 30

Sunday 31

Sunrise and Sunset at Madrid (TL ± 1 mn)

124 - 241
07:10 - 21:14

124 - 241
07:08 - 21:15

124 - 241
07:07 - 21:16

124 - 241
07:06 - 21:17

236 - 129
07:39 - 20:52

236 - 129
07:40 - 20:50

236 - 129
07:41 - 20:49

14:05 +2 m. 66°

14:07 +4 m. 66°

14:09 +6 m. 66°

14:11 +8 m. 67°

13:13

13:10

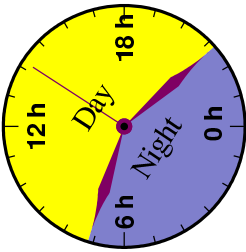
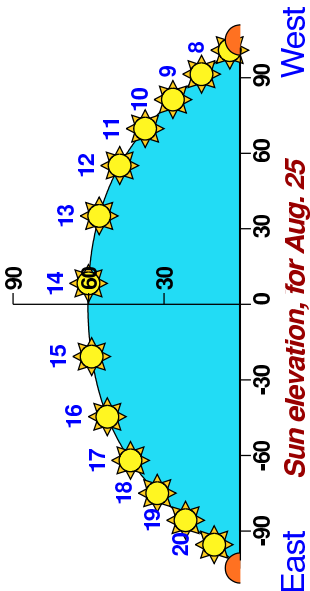
13:08

58°

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

Week 35

May 2014



Madrid
-3.702°E, 40.416°N

Duration of the day, for May 5

Monday 25

Tuesday 26

Wednesday 27

Thursday 28

Friday 9

Saturday 10

Sunday 11

Sunrise and Sunset at Madrid (TL ± 1 mn)

236 - 129
07:35 - 20:58

236 - 129
07:36 - 20:57

236 - 129
07:37 - 20:55

236 - 129
07:38 - 20:54

124 - 241
07:05 - 21:18

124 - 241
07:04 - 21:19

124 - 241
07:03 - 21:20

13:23

-2 m.

60°

13:20

-5 m.

60°

13:18

-7 m.

60°

13:15

-10 m.

59°

14:13

+10 m.

67°

14:16

+13 m.

67°

14:18

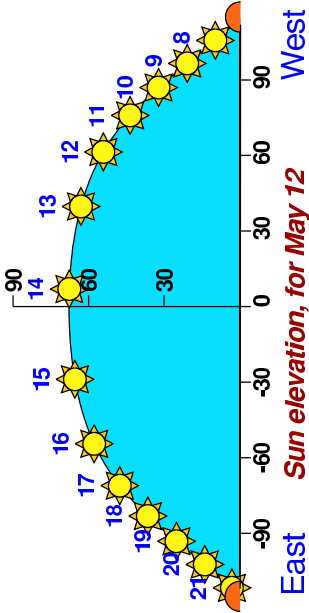
+15 m.

68°

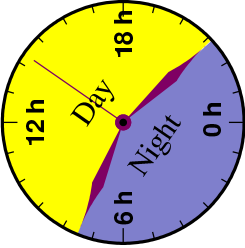
Duration of the day - Variation - Sun maximal elevation (°)

Week 20

August 2014



Madrid
-3.702°E, 40.416°N



Duration of the day, for Aug. 18

Monday 12

Tuesday 13

Wednesday 14

Thursday 15

Friday 22

Saturday 23

Sunday 24

Sunrise and Sunset at Madrid (TL ± 1 mn)

131 - 234
07:02 - 21:21

131 - 234
07:01 - 21:22

131 - 234
07:00 - 21:23

131 - 234
06:59 - 21:24

229 - 136
07:32 - 21:03

229 - 136
07:33 - 21:01

229 - 136
07:34 - 21:00

14:20 +2 m. 68°

14:22 +4 m. 68°

14:24 +6 m. 68°

14:25 +7 m. 69°

13:30 -12 m. 61°

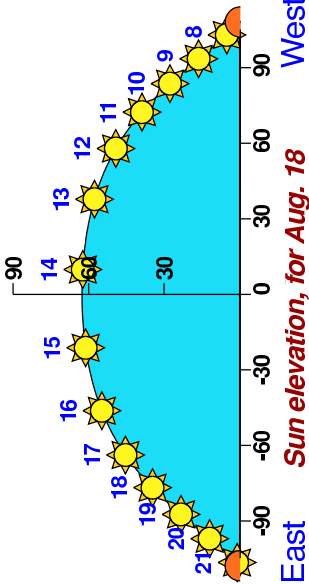
13:28 -14 m. 61°

13:25 -17 m. 61°

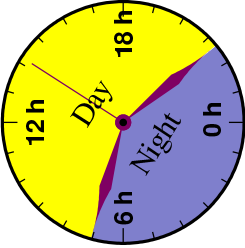
Duration of the day - Variation - Sun maximal elevation (°)

Week 34

May 2014



Madrid
-3.702°E, 40.416°N



Duration of the day, for May 12

Monday 18

Tuesday 19

Wednesday 20

Thursday 21

Friday 16

Saturday 17

Sunday 18

Sunrise and Sunset at Madrid (TL ± 1 mn)

229 - 136
07:29 - 21:08

229 - 136
07:30 - 21:07

229 - 136
07:30 - 21:06

229 - 136
07:31 - 21:04

131 - 234
06:58 - 21:25

131 - 234
06:57 - 21:26

131 - 234
06:56 - 21:27

13:40

-2 m.

63°

13:38

-4 m.

62°

13:35

-7 m.

62°

13:33

-9 m.

62°

14:27

+9 m.

69°

14:29

+11 m.

69°

14:31

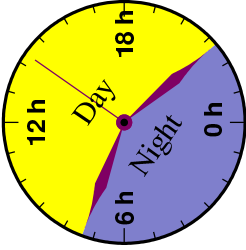
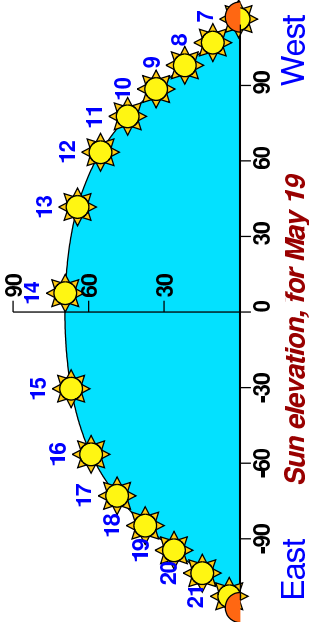
+13 m.

69°

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

Week **21**

August 2014



Madrid

-3.702°E, 40.416°N

Duration of the day, for Aug. 17

Monday 19

Tuesday 20

Wednesday 21

Thursday 22

Friday 15

Saturday 16

Sunday 17

Sunrise and Sunset at Madrid (TL ± 1 mn)

138 - 227

06:55 - 21:28

138 - 227

06:55 - 21:29

138 - 227

06:54 - 21:30

138 - 227

06:53 - 21:31

14:33

+2 m.

69°

14:35

+4 m.

70°

14:36

+5 m.

70°

14:38

+7 m.

70°

13:47

-12 m.

64°

13:45

-14 m.

63°

13:42

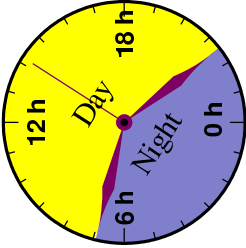
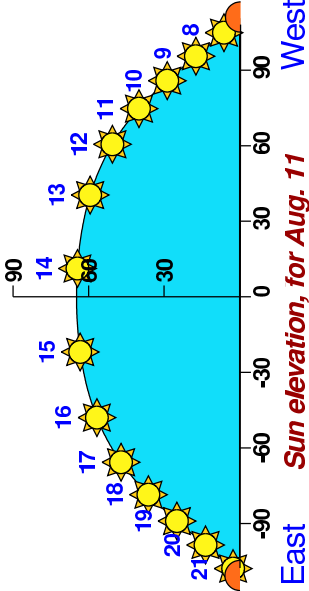
-17 m.

63°

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

Week 33

May 2014



Madrid
-3.702°E, 40.416°N

Duration of the day, for May 19

Monday 11

Tuesday 12

Wednesday 13

Thursday 14

Friday 23

Saturday 24

Sunday 25

Sunrise and Sunset at Madrid (TL ± 1 mn)

222 - 143
07:22 - 21:18

222 - 143
07:23 - 21:17

222 - 143
07:24 - 21:15

222 - 143
07:25 - 21:14

138 - 227
06:52 - 21:32

138 - 227
06:52 - 21:33

138 - 227
06:51 - 21:33

13:56

-3 m.

65°

13:54

-5 m.

64°

13:52

-7 m.

64°

13:50

-9 m.

64°

14:40

+9 m.

70°

14:41

+10 m.

70°

14:43

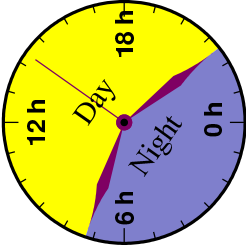
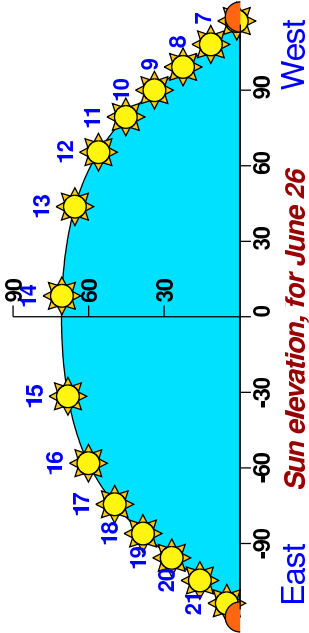
+12 m.

71°

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

Week 22

August 2014



Madrid

-3.702°E, 40.416°N

Duration of the day, for Aug. 4

Monday 26

Tuesday 27

Wednesday 28

Thursday 29

Friday 8

Saturday 9

Sunday 10

Sunrise and Sunset at Madrid (TL ± 1 mn)

145 - 220
06:50 - 21:34

145 - 220
06:50 - 21:35

145 - 220
06:49 - 21:36

145 - 220
06:48 - 21:37

215 - 150
07:19 - 21:22

215 - 150
07:20 - 21:21

215 - 150
07:21 - 21:19

14:44

+1 m.

71°

14:46

+3 m.

71°

14:47

+4 m.

71°

14:48

+5 m.

71°

14:03

-11 m.

66°

14:01

-13 m.

65°

13:59

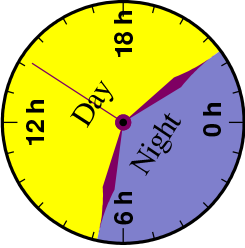
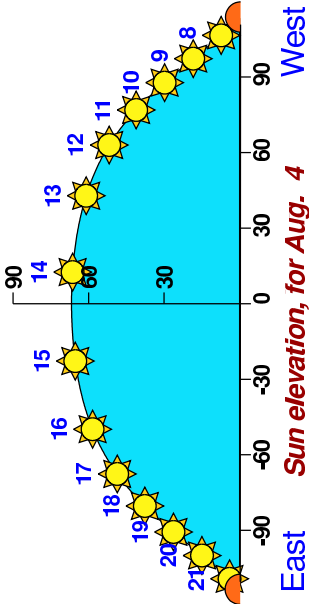
-15 m.

65°

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

Week 32

May - June 2014



Madrid
-3.702°E, 40.416°N

Duration of the day, for May 28

Monday 4

Tuesday 5

Wednesday 6

Thursday 7

Friday 30

Saturday 31

Sunday 1

Sunrise and Sunset at Madrid (TL ± 1 mn)

215 - 150
07:15 - 21:27

215 - 150
07:16 - 21:25

215 - 150
07:17 - 21:24

215 - 150
07:18 - 21:23

145 - 220
06:48 - 21:37

145 - 220
06:47 - 21:38

145 - 220
06:47 - 21:39

14:12 -2 m. 67°

14:10 -4 m. 66°

14:07 -7 m. 66°

14:05 -9 m. 66°

14:50

14:51

14:52

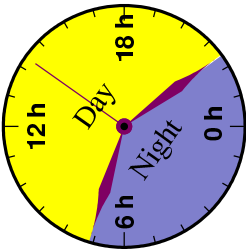
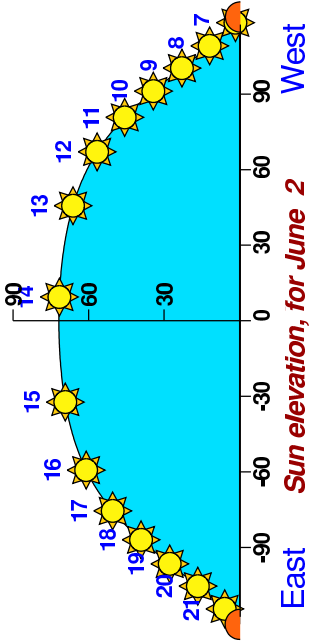
+9 m.

72°

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

Week 23

July - Aug. 2014



Madrid

-3.702°E, 40.416°N

Duration of the day, for July 28

Monday 2

Tuesday 3

Wednesday 4

Thursday 5

Friday 1

Saturday 2

Sunday 3

Sunrise and Sunset at Madrid (TL ± 1 mn)

152 - 213
06:47 - 21:40

152 - 213
06:46 - 21:40

152 - 213
06:46 - 21:41

152 - 213
06:46 - 21:42

208 - 157
07:12 - 21:30

208 - 157
07:13 - 21:29

208 - 157
07:14 - 21:28

14:53

+1 m.

72°

14:54

+2 m.

72°

14:55

+3 m.

72°

14:56

+4 m.

72°

14:18

-9 m.

68°

14:16

-11 m.

67°

14:14

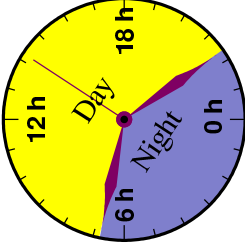
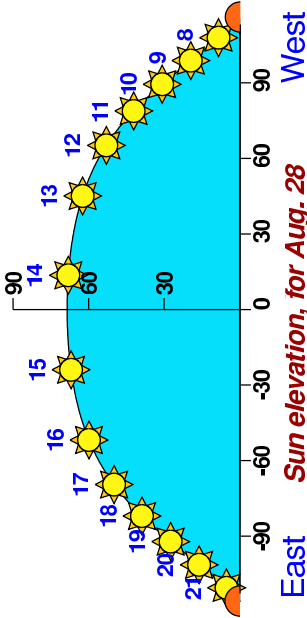
-13 m.

67°

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

Week 31

June 2014



Madrid

-3.702°E, 40.416°N

East Sun elevation, for Aug. 28 West

Duration of the day, for June 2014

Monday 28

Tuesday 29

Wednesday 30

Thursday 31

Friday 6

Saturday 7

Sunday 8

Sunrise and Sunset at Madrid (TL ± 1 mn)

208 - 157
07:08 - 21:34

208 - 157
07:09 - 21:33

208 - 157
07:10 - 21:32

208 - 157
07:11 - 21:31

152 - 213
06:45 - 21:42

152 - 213
06:45 - 21:43

152 - 213
06:45 - 21:43

14:26

-1 m.

69°

14:24

-3 m.

68°

14:22

-5 m.

68°

14:20

-7 m.

68°

14:57

+5 m.

72°

14:58

+6 m.

72°

14:59

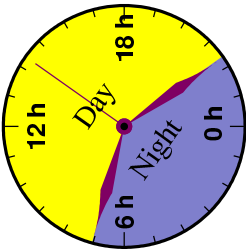
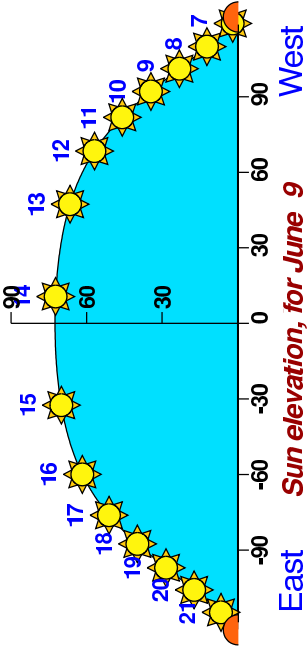
+7 m.

72°

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

Week 24

July 2014



Madrid
-3.702°E, 40.416°N

Duration of the day, for July 21

Monday 9

Tuesday 10

Wednesday 11

Thursday 12

Friday 25

Saturday 26

Sunday 27

Sunrise and Sunset at Madrid (TL ± 1 mn)

159 - 206
06:45 - 21:44

159 - 206
06:44 - 21:45

159 - 206
06:44 - 21:45

159 - 206
06:44 - 21:46

201 - 164
07:06 - 21:37

201 - 164
07:07 - 21:36

201 - 164
07:08 - 21:35

15:00

+1 m.

73°

15:00

+1 m.

73°

15:01

+2 m.

73°

15:01

+2 m.

73°

14:31

-8 m.

69°

14:29

-10 m.

69°

14:27

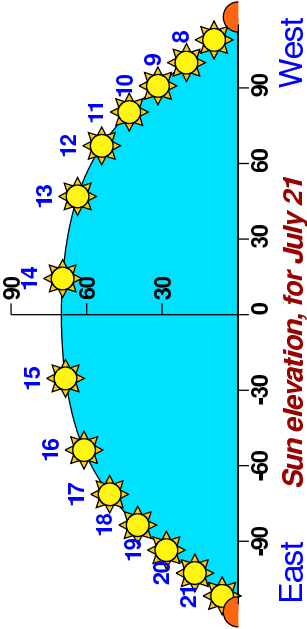
-12 m.

69°

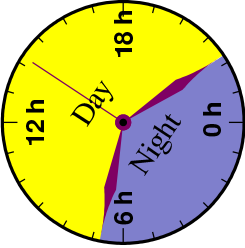
Duration of the day - Variation - Sun maximal elevation (°)

Week 30

June 2014



Madrid
-3.702°E, 40.416°N



Duration of the day, for June 9

Monday 21

Tuesday 22

Wednesday 23

Thursday 24

Friday 13

Saturday 14

Sunday 15

Sunrise and Sunset at Madrid (TL ± 1 mn)

201 - 164
07:02 - 21:40

201 - 164
07:03 - 21:39

201 - 164
07:04 - 21:38

201 - 164
07:05 - 21:38

159 - 206
06:44 - 21:46

159 - 206
06:44 - 21:46

159 - 206
06:44 - 21:47

14:38

-1 m.

70°

14:36

-3 m.

70°

14:35

-4 m.

70°

14:33

-6 m.

69°

15:02

+3 m.

73°

15:02

+3 m.

73°

15:03

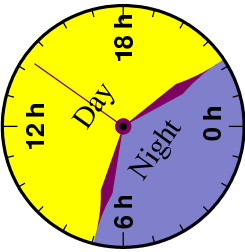
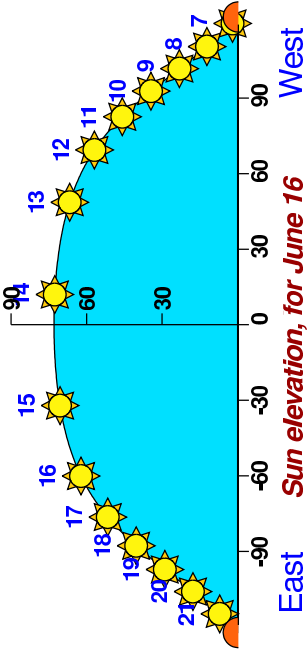
+4 m.

73°

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

Week 25

July 2014



Madrid
-3.702°E, 40.416°N

Duration of the day, for July 14

Monday 16

Tuesday 17

Wednesday 18

Thursday 19

Friday 18

Saturday 19

Sunday 20

Sunrise and Sunset at Madrid (TL ± 1 mn)

166 - 199
06:44 - 21:47

166 - 199
06:44 - 21:48

166 - 199
06:44 - 21:48

166 - 199
06:45 - 21:48

194 - 171
07:00 - 21:42

194 - 171
07:01 - 21:42

194 - 171
07:01 - 21:41

15:03 +0 m. 73°

15:03 +0 m. 73°

15:04 +1 m. 73°

15:04 +1 m. 73°

14:43

-6 m.

71°

14:41

-8 m.

70°

14:39

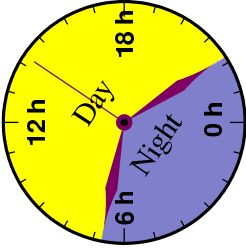
-10 m.

70°

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

Week 29

June 2014



Madrid
-3.702°E, 40.416°N

East Sun elevation, for July 14 West

Duration of the day, for June 16

Monday 14

Tuesday 15

Wednesday 16

Thursday 17

Friday 20

Saturday 21

Sunday 22

Sunrise and Sunset at Madrid (TL ± 1 mn)

194 - 171

06:57 - 21:45

14:48

-1 m.

71°

14:47

-2 m.

71°

14:46

-3 m.

71°

14:44

-5 m.

71°

194 - 171

06:59 - 21:43

166 - 199

06:45 - 21:48

15:04

+1 m.

73°

15:04

+1 m.

73°

166 - 199

06:45 - 21:49

166 - 199

06:45 - 21:49

15:04

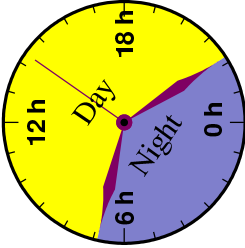
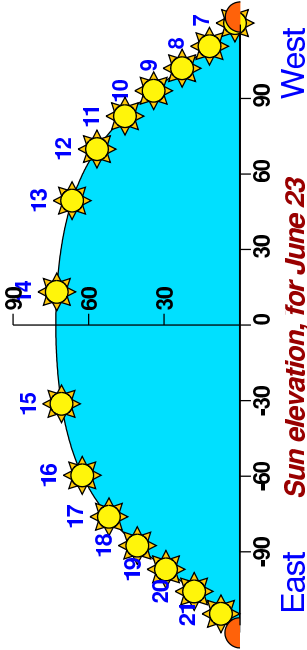
+1 m.

73°

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

Week 26

July 2014



Madrid
-3.702°E, 40.416°N

Duration of the day, for July 7

Monday 23

Tuesday 24

Wednesday 25

Thursday 26

Friday 11

Saturday 12

Sunday 13

Sunrise and Sunset at Madrid (TL ± 1 mn)

173 - 192
06:45 - 21:49

173 - 192
06:46 - 21:49

173 - 192
06:46 - 21:49

173 - 192
06:46 - 21:49

187 - 178
06:54 - 21:46

187 - 178
06:55 - 21:46

187 - 178
06:56 - 21:45

15:04

+0 m.

73°

15:04

+0 m.

73°

15:03

-1 m.

73°

15:03

-1 m.

73°

14:52

-5 m.

72°

14:51

-6 m.

72°

14:49

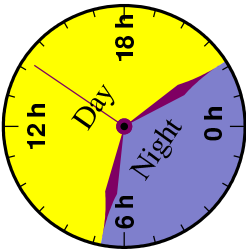
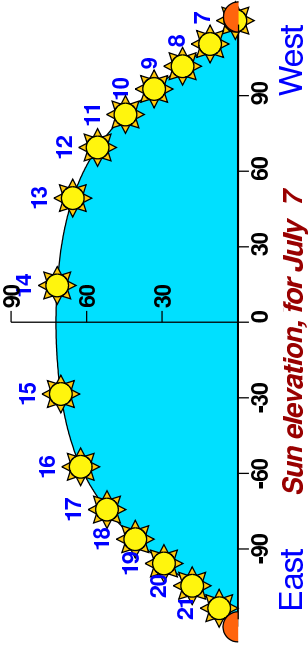
-8 m.

71°

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

Week 28

June 2014



Madrid
-3.702°E, 40.416°N

Duration of the day, for June 23

Monday 7

Tuesday 8

Wednesday 9

Thursday 10

Friday 27

Saturday 28

Sunday 29

Sunrise and Sunset at Madrid (TL ± 1 mn)

187 - 178
06:52 - 21:48

187 - 178
06:52 - 21:47

187 - 178
06:53 - 21:47

187 - 178
06:54 - 21:47

173 - 192
06:47 - 21:49

173 - 192
06:47 - 21:49

173 - 192
06:47 - 21:49

14:56

-1 m.

72°

14:55

-2 m.

72°

14:54

-3 m.

72°

14:53

-4 m.

72°

15:03

-1 m.

73°

15:02

-2 m.

73°

15:02

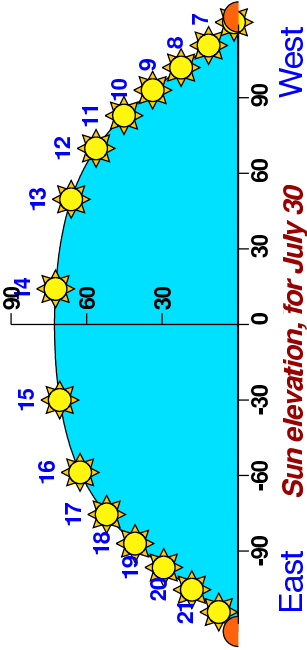
-2 m.

73°

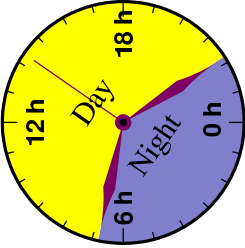
Duration of the day - Variation - Sun maximal elevation (°)

Week 27

June - July 2014



Madrid
-3.702°E, 40.416°N



Duration of the day, for June 30

Monday 30

Tuesday 1

Wednesday 2

Thursday 3

Friday 4

Saturday 5

Sunday 6

Sunrise and Sunset at Madrid (TL ± 1 mn)

180 - 185
06:48 - 21:49

180 - 185
06:48 - 21:49

180 - 185
06:49 - 21:49

180 - 185
06:49 - 21:49

180 - 185
06:50 - 21:49

180 - 185
06:51 - 21:48

180 - 185
06:51 - 21:48

15:01 -1 m. 73°

15:01 -1 m. 73°

15:00 -2 m. 73°

14:59 -3 m. 73°

14:59 -3 m. 72°

14:58 -4 m. 72°

-5 m. 72°

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