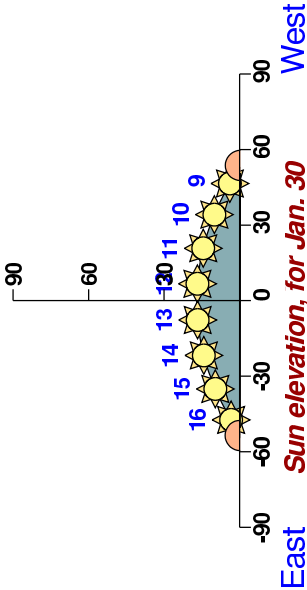


Sun Diary 2014

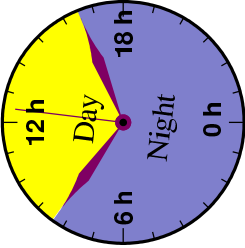
© Patrick ROBERT, PatCie, Déc. 2012

Week **1**

Dec. - Jan. 2015



Darmstadt
8.65°E, 49.87°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 Darmstadt (TL ± 1 mn)

363 - 2
08:24 - 16:33

363 - 2
08:24 - 16:34

363 - 2
08:24 - 16:35

363 - 2
08:23 - 16:36

362 - 3
08:23 - 16:36

362 - 3
08:23 - 16:37

362 - 3
08:23 - 16:38

8:09 **+1 m.** 17°

+2 m. 17°

+3 m. 17°

+4 m. 17°

+5 m. 17°

+6 m. 17°

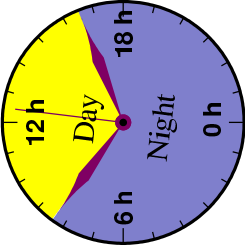
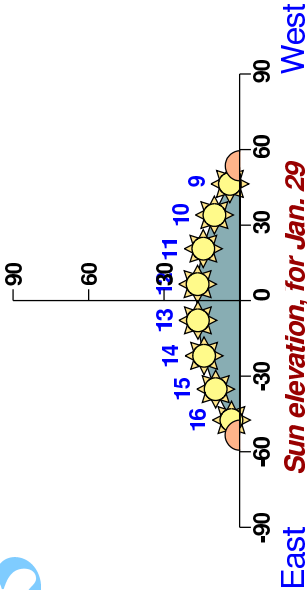
+7 m.

17°

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

Week 53

Dec. - Jan. 2014



Darmstadt
8.65°E, 49.87°N

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 Darmstadt (TL ± 1 mn)

362 - 3
08:23 - 16:32

362 - 3
08:23 - 16:33

362 - 3
08:24 - 16:34

362 - 3
08:24 - 16:35

363 - 2
08:23 - 16:37

363 - 2
08:23 - 16:38

363 - 2
08:23 - 16:39

8:08 +1 m. 17°

8:09 +2 m. 17°

8:10 +3 m. 17°

8:11 +4 m. 17°

8:13 +5 m. 17°

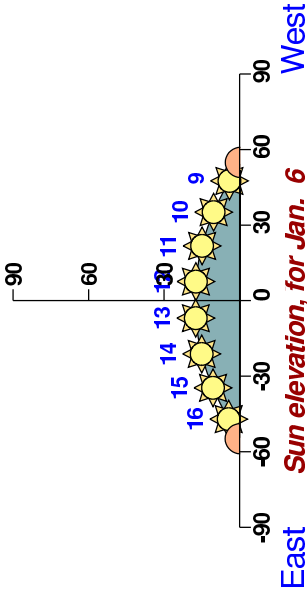
8:15 +7 m. 17°

8:16 +8 m. 18°

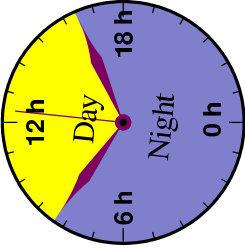
Duration of the day - Variation - Sun maximal elevation (°)

Week 2

December 2014



Darmstadt
8.65°E, 49.87°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 Darmstadt (TL ± 1 mn)

5 - 360
08:23 - 16:40

5 - 360
08:22 - 16:42

5 - 360
08:22 - 16:43

5 - 360
08:21 - 16:44

355 - 10
08:23 - 16:29

355 - 10
08:23 - 16:30

355 - 10
08:23 - 16:31

8:17

+1 m.

18°

8:19

+3 m.

18°

8:21

+5 m.

18°

8:22

+6 m.

18°

8:06

+1 m.

17°

8:07

+2 m.

17°

8:07

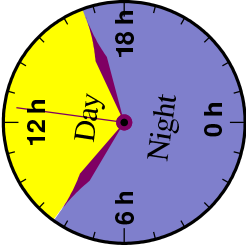
+2 m.

17°

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

Week 52

January 2014



Darmstadt
8.65°E, 49.87°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 Darmstadt (TL ± 1 mn)

355 - 10

08:21 - 16:27

355 - 10

08:22 - 16:27

355 - 10

08:22 - 16:28

355 - 10

08:23 - 16:29

5 - 360

08:21 - 16:46

5 - 360

08:20 - 16:47

5 - 360

08:20 - 16:48

8:05

+0 m.

17°

8:05

+0 m.

17°

8:06

+1 m.

17°

8:06

+1 m.

17°

8:24

+8 m.

18°

8:26

+10 m.

18°

8:28

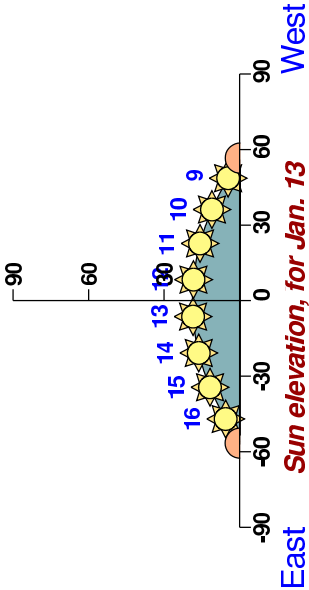
+12 m.

19°

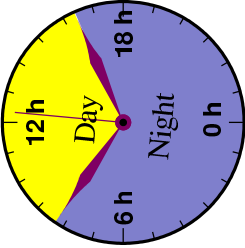
Duration of the day - Variation - Sun maximal elevation (°)

Week 3

December 2014



Darmstadt
8.65°E, 49.87°N



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 Darmstadt (TL ± 1 mn)

12 - 353
08:19 - 16:50

12 - 353
08:19 - 16:51

12 - 353
08:18 - 16:53

12 - 353
08:17 - 16:54

348 - 17
08:20 - 16:26

348 - 17
08:20 - 16:26

348 - 17
08:21 - 16:26

8:30 +2 m. 19°

8:32 +4 m. 19°

8:34 +6 m. 19°

8:37 +9 m. 19°

8:06 -2 m. 17°

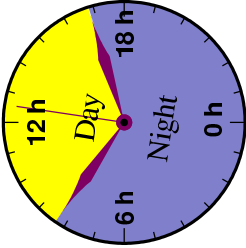
8:05 -3 m. 17°

-3 m. 17°

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

Week 51

January 2014



Darmstadt
8.65°E, 49.87°N

East Sun elevation, for Dec. 15 West

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 Darmstadt (TL ± 1 mn)

348 - 17

08:17 - 16:24

348 - 17

08:18 - 16:25

348 - 17

08:18 - 16:25

348 - 17

08:19 - 16:25

12 - 353

08:16 - 16:56

12 - 353

08:15 - 16:57

12 - 353

08:14 - 16:59

8:07

-1 m.

17°

8:07

-1 m.

17°

8:06

-2 m.

17°

8:06

-2 m.

17°

8:39

+11 m.

19°

8:41

+13 m.

20°

8:44

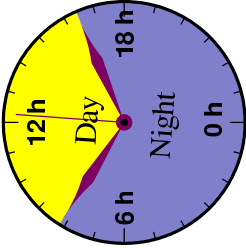
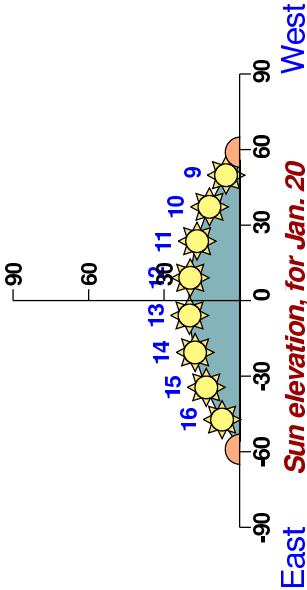
+16 m.

20°

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

Week 4

December 2014



Darmstadt
8.65°E, 49.87°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 Darmstadt (TL ± 1 mn)

19 - 346

08:13 - 17:00

19 - 346

08:12 - 17:02

19 - 346

08:11 - 17:03

19 - 346

08:10 - 17:05

341 - 24

08:14 - 16:24

341 - 24

08:15 - 16:24

341 - 24

08:16 - 16:24

8:46

+2 m.

20°

8:49

+5 m.

20°

8:51

+7 m.

21°

8:54

+10 m.

21°

8:10

-5 m.

17°

8:09

-6 m.

17°

8:08

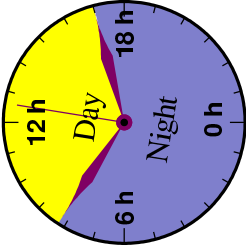
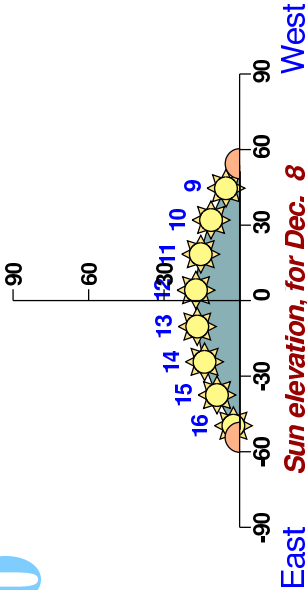
-7 m.

17°

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

Week 50

January 2014



Darmstadt
8.65°E, 49.87°N

Duration of the day, for Jan. 20

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 Darmstadt (TL ± 1 mn)

341 - 24
08:10 - 16:25

341 - 24
08:11 - 16:24

341 - 24
08:12 - 16:24

341 - 24
08:13 - 16:24

19 - 346
08:09 - 17:07

19 - 346
08:08 - 17:08

19 - 346
08:07 - 17:10

8:14

-1 m.

17°

8:13

-2 m.

17°

8:12

-3 m.

17°

8:11

-4 m.

17°

8:57

+13 m.

21°

9:00

+16 m.

21°

9:03

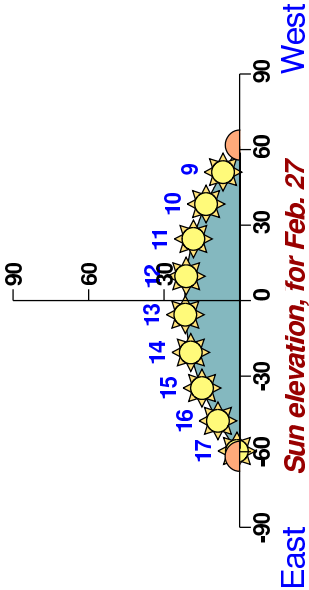
+19 m.

22°

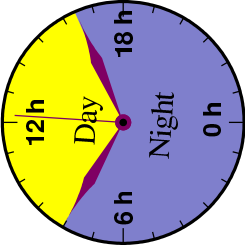
Duration of the day - Variation - Sun maximal elevation (°)

Week **5**

December 2014



Darmstadt
8.65°E, 49.87°N



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 Darmstadt (TL ± 1 mn)

26 - 339
08:06 - 17:12

26 - 339
08:04 - 17:13

26 - 339
08:03 - 17:15

26 - 339
08:02 - 17:17

334 - 31
08:07 - 16:25

334 - 31
08:08 - 16:25

334 - 31
08:09 - 16:25

9:06

+3 m.

22°

9:08

+5 m.

22°

9:11

+8 m.

22°

9:14

+11 m.

23°

8:18

-9 m.

18°

8:17

-10 m.

18°

8:15

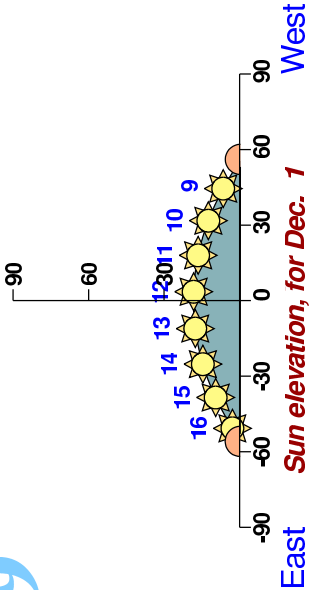
-12 m.

18°

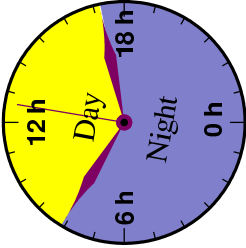
Duration of the day - Variation - Sun maximal elevation (°)

Week 49

Jan. - Feb. 2014



Darmstadt
8.65°E, 49.87°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 Darmstadt (TL ± 1 mn)

334 - 31

08:01 - 16:27

334 - 31

08:03 - 16:27

334 - 31

08:04 - 16:26

334 - 31

08:05 - 16:26

26 - 339

08:00 - 17:18

26 - 339

07:59 - 17:20

26 - 339

07:57 - 17:22

8:25

-2 m.

18°

8:24

-3 m.

18°

8:22

-5 m.

18°

8:20

-7 m.

18°

9:17

+14 m.

23°

9:21

+18 m.

23°

9:24

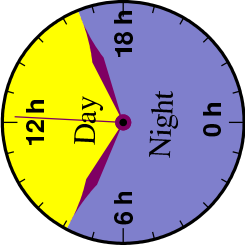
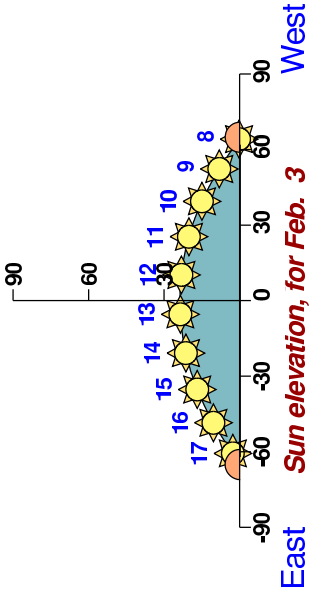
+21 m.

23°

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

Week **6**

November 2014



Darmstadt
8.65°E, 49.87°N

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 Darmstadt (TL ± 1 mn)

33 - 332
07:56 - 17:23

33 - 332
07:55 - 17:25

33 - 332
07:53 - 17:27

33 - 332
07:51 - 17:28

327 - 38
07:57 - 16:29

327 - 38
07:59 - 16:29

327 - 38
08:00 - 16:28

9:27

+3 m.

24°

9:30

+6 m.

24°

9:33

+9 m.

24°

9:37

+13 m.

25°

8:31

-12 m.

19°

8:29

-14 m.

19°

8:27

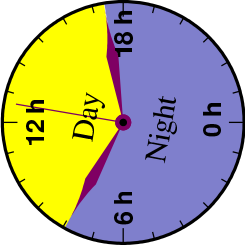
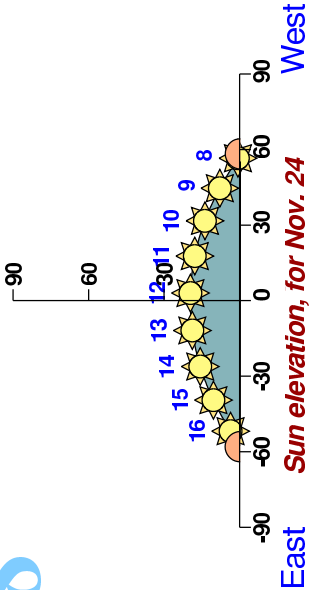
-16 m.

19°

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

Week
48

February 2014



Darmstadt
8.65°E, 49.87°N

Duration of the day, for Feb. 3

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 Darmstadt (TL ± 1 mn)

327 - 38
07:52 - 16:32

327 - 38
07:53 - 16:32

327 - 38
07:55 - 16:31

327 - 38
07:56 - 16:30

33 - 332
07:50 - 17:30

33 - 332
07:48 - 17:32

33 - 332
07:47 - 17:34

8:40

-3 m.

8:38

-5 m.

19°

8:36

-7 m.

19°

8:34

-9 m.

19°

9:40

+16 m.

25°

9:43

+19 m.

25°

9:47

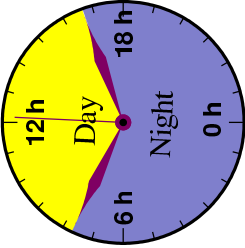
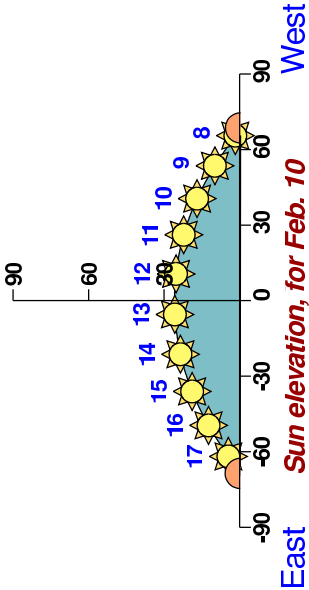
+23 m.

26°

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

Week 7

November 2014



Darmstadt
8.65°E, 49.87°N

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 Darmstadt (TL ± 1 mn)

40 - 325
07:45 - 17:35

40 - 325
07:43 - 17:37

40 - 325
07:41 - 17:39

40 - 325
07:40 - 17:41

320 - 45
07:47 - 16:35

320 - 45
07:49 - 16:34

320 - 45
07:50 - 16:33

9:50

+3 m.

26°

9:53

+6 m.

26°

9:57

+10 m.

27°

10:01

+14 m.

27°

8:48

-13 m.

20°

8:45

-16 m.

20°

8:43

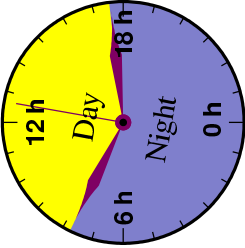
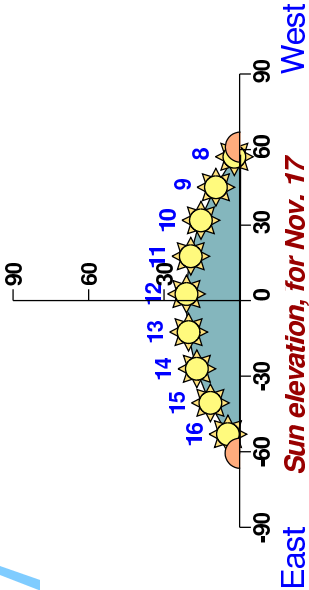
-18 m.

20°

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

Week 47

February 2014



Darmstadt
8.65°E, 49.87°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 Darmstadt (TL ± 1 mn)

320 - 45
07:41 - 16:40

320 - 45
07:42 - 16:39

320 - 45
07:44 - 16:37

320 - 45
07:46 - 16:36

40 - 325
07:38 - 17:42

40 - 325
07:36 - 17:44

40 - 325
07:34 - 17:46

8:59

-2 m.

21°

8:56

-5 m.

21°

8:53

-8 m.

21°

8:50

-11 m.

20°

10:04

+17 m.

27°

10:08

+21 m.

28°

10:11

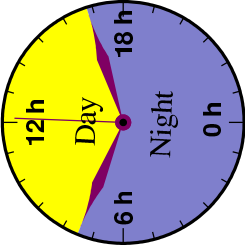
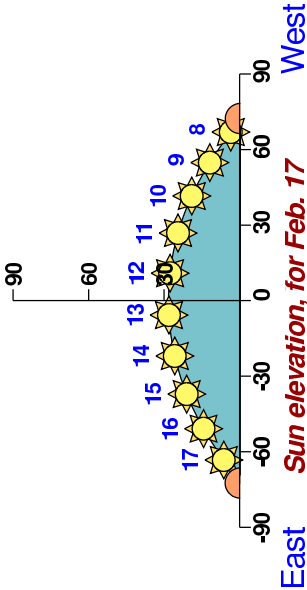
+24 m.

28°

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

Week 8

November 2014



Darmstadt
8.65°E, 49.87°N

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 Darmstadt (TL ± 1 mn)

47 - 318
07:33 - 17:47

47 - 318
07:31 - 17:49

47 - 318
07:29 - 17:51

47 - 318
07:27 - 17:52

313 - 52
07:36 - 16:43

313 - 52
07:38 - 16:42

313 - 52
07:39 - 16:41

10:15

+4 m.

28°

+8 m.

29°

+11 m.

29°

+15 m.

29°

9:07

-15 m.

22°

9:04

-18 m.

22°

9:01

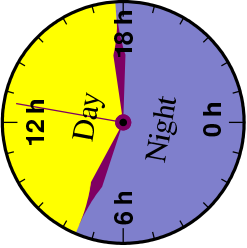
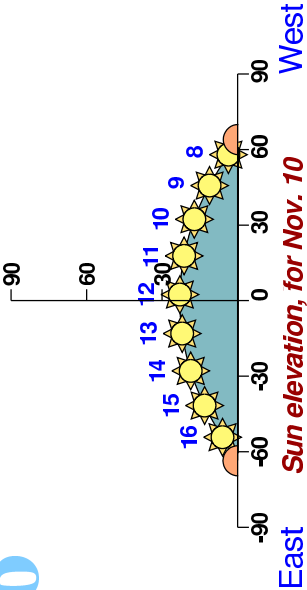
-21 m.

21°

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

Week 46

February 2014



Darmstadt
8.65°E, 49.87°N

East Sun elevation, for Nov. 10 West

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 Darmstadt (TL ± 1 mn)

313 - 52
07:29 - 16:49

313 - 52
07:31 - 16:47

313 - 52
07:33 - 16:46

313 - 52
07:34 - 16:45

47 - 318
07:25 - 17:54

47 - 318
07:23 - 17:56

47 - 318
07:21 - 17:58

9:19

-3 m.

23°

9:16

-6 m.

23°

9:13

-9 m.

22°

9:10

-12 m.

22°

10:29

+18 m.

30°

10:33

+22 m.

30°

10:37

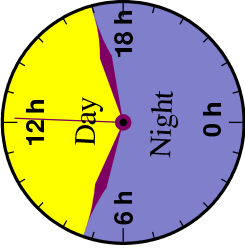
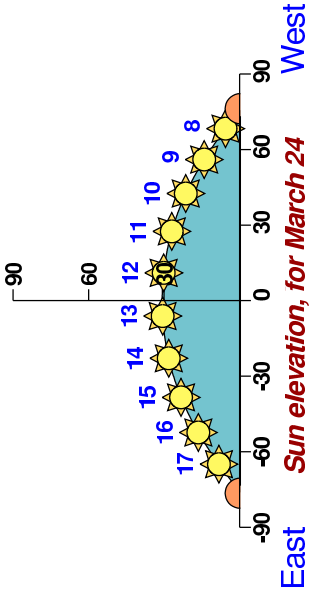
+26 m.

30°

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

Week 9

November 2014



Darmstadt
8.65°E, 49.87°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 Darmstadt (TL ± 1 mn)

54 - 311
07:19 - 17:59

54 - 311
07:17 - 18:01

54 - 311
07:15 - 18:03

54 - 311
07:13 - 18:04

306 - 59
07:25 - 16:53

306 - 59
07:26 - 16:52

306 - 59
07:28 - 16:50

10:40

+3 m.

31 °

10:44

+7 m.

31 °

10:47

+10 m.

32 °

10:51

+14 m.

32 °

9:28

-17 m.

24 °

9:25

-20 m.

24 °

9:22

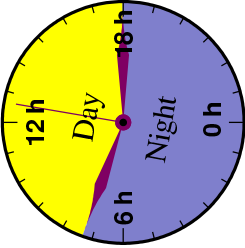
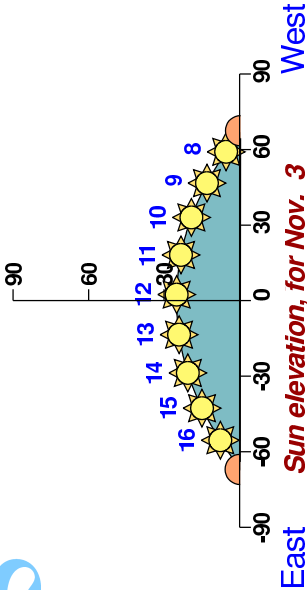
-23 m.

23 °

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

Week 45

Feb. - March 2014



Darmstadt
8.65°E, 49.87°N

East Sun elevation, for Nov. 3 West

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 Darmstadt (TL ± 1 mn)

306 - 59
07:18 - 17:00

306 - 59
07:20 - 16:58

306 - 59
07:21 - 16:56

306 - 59
07:23 - 16:55

54 - 311
07:11 - 18:06

54 - 311
07:09 - 18:08

54 - 311
07:07 - 18:09

9:41

-4 m.

25°

9:38

-7 m.

25°

9:35

-10 m.

24°

9:32

-13 m.

24°

10:55

+18 m.

32°

10:59

+22 m.

33°

11:02

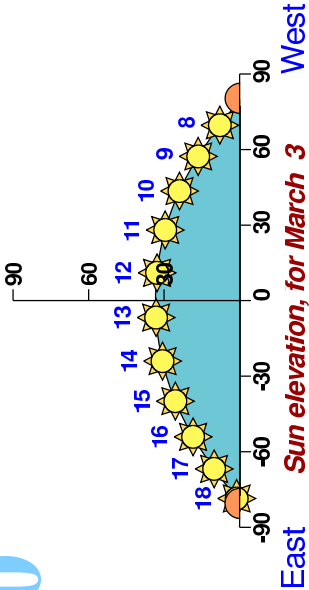
+25 m.

33°

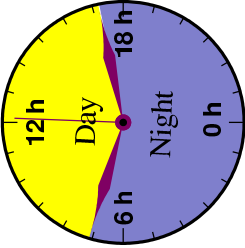
Duration of the day - Variation - Sun maximal elevation (°)

Week 10

Oct. - Nov. 2014



Darmstadt
8.65°E, 49.87°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 Darmstadt (TL ± 1 mn)

61 - 304

07:05 - 18:11

61 - 304

07:03 - 18:12

61 - 304

07:01 - 18:14

61 - 304

06:59 - 18:16

299 - 66

07:13 - 17:05

299 - 66

07:15 - 17:03

299 - 66

07:16 - 17:01

11:06

+4 m.

33°

11:10

+8 m.

34°

11:13

+11 m.

34°

11:17

+15 m.

35°

9:51

-18 m.

26°

9:48

-21 m.

26°

9:45

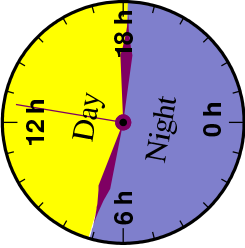
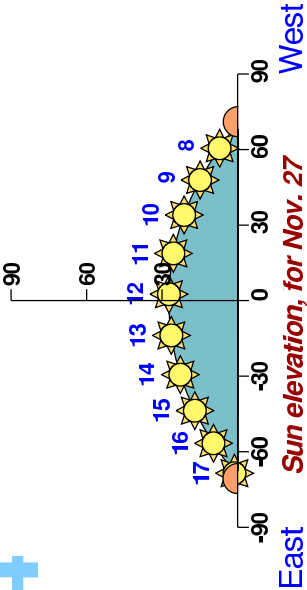
-24 m.

25°

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

Week 44

March 2014



Darmstadt
8.65°E, 49.87°N

Duration of the day, for March 2014

Monday 27

Tuesday 28

Wednesday 29

Thursday 30

Friday 7

Saturday 8

Sunday 9

Sunrise and Sunset at Darmstadt (TL ± 1 mn)

299 - 66
07:06 - 17:12

299 - 66
07:08 - 17:10

299 - 66
07:10 - 17:08

299 - 66
07:11 - 17:06

61 - 304
06:57 - 18:17

61 - 304
06:55 - 18:19

61 - 304
06:52 - 18:21

10:06

-3 m.

27°

10:02

-7 m.

27°

9:58

-11 m.

27°

9:55

-14 m.

26°

11:21

+19 m.

35°

11:25

+23 m.

35°

11:28

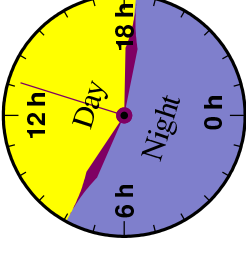
+26 m.

36°

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

Sun elevation, for March 10

Longitude	Sun Elevation (Degrees)
-90	18
-75	17
-60	16
-45	15
-30	14
-15	13
0	12
15	11
30	10
45	9
60	8
75	7
90	6



Duration of the day, for Oct. 20

Wednesday

13

Thursday

Friday

25 Saturday

Sunday

68-297
06:50 - 18:22

68-297
06:48 - 18:24

68 - 297
06:46 - 18:25

68 - 297
06:44 - 18:27

292 - 73
08:01 - 18:17

292 - 73
08:03 - 18:16

292 - 73
07:05 - 17:14

11:36 **+8 m.** **37°**

11:39 +11 m. 37°

11:43 +15 m. 37°

10:13

-21 m.

28°

Time change October 26

10:09 -25 m. 28°

11:32 +4 m. 36°

11:36
+8 m.

37°	11:39
-----	-------

+11 m. 37

+15 m. **37°**

10:16 -18 m.

10:13 -21 m. 28°

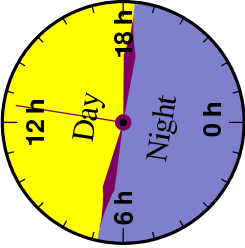
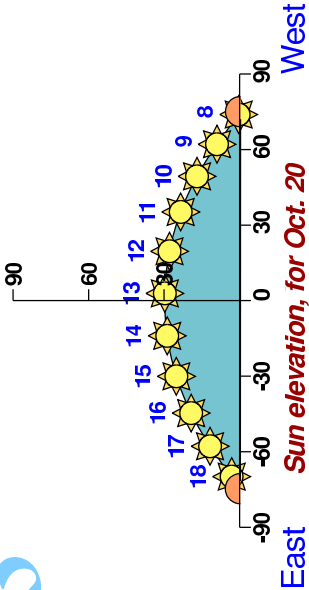
-25 m.

28.

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

Week 43

March 2014



Darmstadt
8.65°E, 49.87°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 Darmstadt (TL ± 1 mn)

292 - 73
07:55 - 18:25

292 - 73
07:57 - 18:23

292 - 73
07:58 - 18:21

292 - 73
08:00 - 18:19

68 - 297
06:42 - 18:29

68 - 297
06:40 - 18:30

68 - 297
06:38 - 18:32

10:30

-4 m.

30°

10:27

-7 m.

29°

10:23

-11 m.

29°

10:20

-14 m.

29°

11:47

+19 m.

38°

11:51

+23 m.

38°

11:54

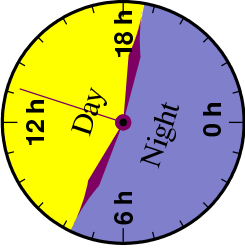
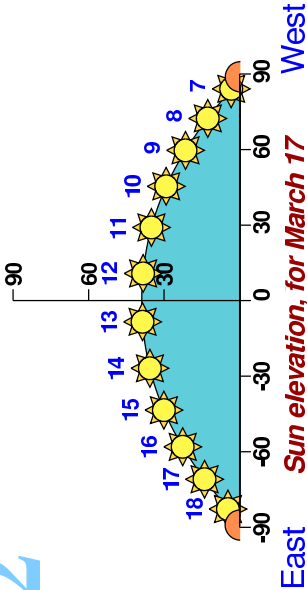
+26 m.

38°

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

Week 12

October 2014



Darmstadt
8.65°E, 49.87°N

East Sun elevation, for March 17 West

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 Darmstadt (TL ± 1 mn)

75 - 290
06:35 - 18:33

75 - 290
06:33 - 18:35

75 - 290
06:31 - 18:37

75 - 290
06:29 - 18:38

285 - 80
07:50 - 18:31

285 - 80
07:52 - 18:29

285 - 80
07:53 - 18:27

11:58

+4 m.

39°

12:02

+8 m.

39°

12:06

+12 m.

40°

12:09

+15 m.

40°

10:41

-18 m.

31°

10:37

-22 m.

30°

10:34

-25 m.

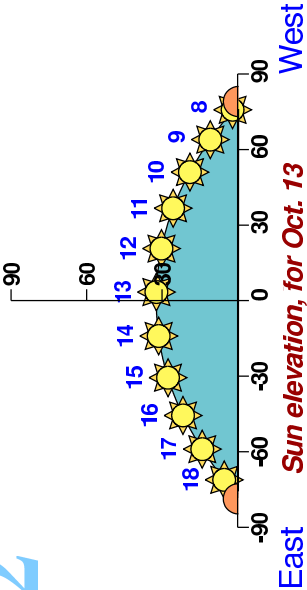
30°

30°

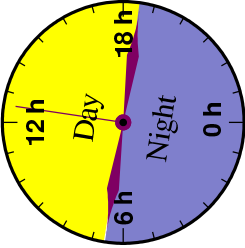
Duration of the day - Variation - Sun maximal elevation (°)

Week 42

March 2014



Darmstadt
8.65°E, 49.87°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 Darmstadt (TL ± 1 mn)

285 - 80
07:44 - 18:39

285 - 80
07:45 - 18:37

285 - 80
07:47 - 18:35

285 - 80
07:49 - 18:33

75 - 290
06:27 - 18:40

75 - 290
06:25 - 18:41

75 - 290
06:22 - 18:43

10:55

-4 m.

32°

10:52

-7 m.

32°

10:48

-11 m.

32°

10:44

-15 m.

31°

12:13

+19 m.

40°

12:17

+23 m.

41°

12:21

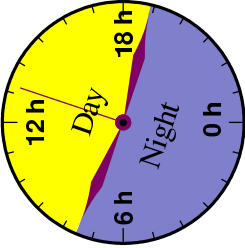
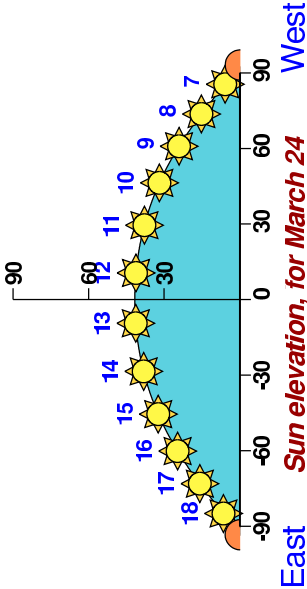
+27 m.

41°

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

Week 13

October 2014



Darmstadt
8.65°E, 49.87°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 Darmstadt (TL ± 1 mn)

82 - 283
06:20 - 18:45

82 - 283
06:18 - 18:46

82 - 283
06:16 - 18:48

82 - 283
06:14 - 18:49

278 - 87
07:39 - 18:45

278 - 87
07:41 - 18:43

278 - 87
07:42 - 18:41

12:24

+3 m.

42°

12:28

+7 m.

42°

12:32

+11 m.

42°

12:36

+15 m.

43°

11:06

-19 m.

33°

11:03

-22 m.

33°

10:59

-26 m.

33°

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

90 60 30 0 -30 -60 -90

18 17 16 15 14 13 12 11 10 9 8



East Sun elevation, for Oct. 6 West

Monday

7
Tuesday

8 Wednesday

Thursday

Friday

29 Saturday

30
Sunday

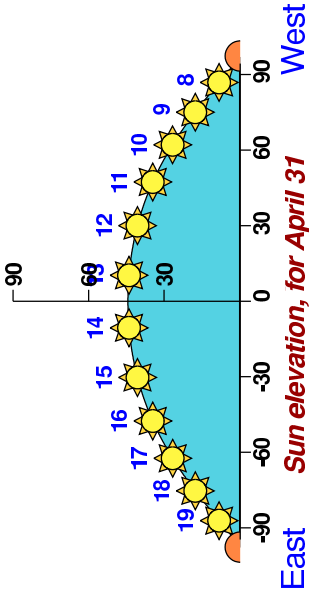
Sunrise and Sunset at Darmstadt ($TL \pm 1\text{ mn}$)

278 - 87 07:33 - 18:54		278 - 87 07:34 - 18:52		278 - 87 07:36 - 18:49		278 - 87 07:37 - 18:47				82 - 283 06:12 - 18:51		82 - 283 06:09 - 18:52		82 - 283 07:07 - 19:54						
11:21	-4 m.	35°	11:17	-8 m.	35°	11:14	-11 m.	34°	11:10	-15 m.	34°	12:39	+18 m.	43°	12:43	+22 m.	44°	12:47	+26 m.	44°
Time change March 30																				

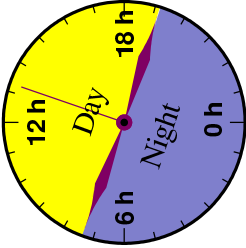
Duration of the day - Variation - Sun maximal elevation (°)

Week **14**

Sept. - Oct. 2014



Darmstadt
8.65°E, 49.87°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 Darmstadt (TL ± 1 mn)

89 - 276
07:05 - 19:56

89 - 276
07:03 - 19:57

89 - 276
07:01 - 19:59

89 - 276
06:59 - 20:00

271 - 94
07:28 - 19:00

271 - 94
07:30 - 18:58

271 - 94
07:31 - 18:56

12:51

+4 m.

44°

12:54

+7 m.

45°

12:58

+11 m.

45°

13:02

+15 m.

46°

11:32

-18 m.

36°

11:28

-22 m.

36°

11:25

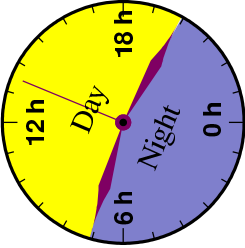
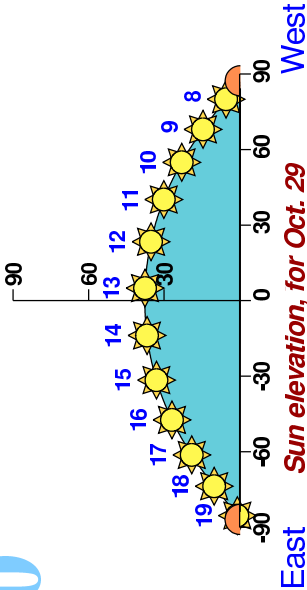
-25 m.

35°

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

Week 40

March - April 2014



Darmstadt
8.65°E, 49.87°N

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 Darmstadt (TL ± 1 mn)

271 - 94
07:22 - 19:09

271 - 94
07:24 - 19:07

271 - 94
07:25 - 19:04

271 - 94
07:27 - 19:02

89 - 276
06:56 - 20:02

89 - 276
06:54 - 20:03

89 - 276
06:52 - 20:05

11:47 -3 m. 38°

11:43 -7 m. 37°

11:39 -11 m. 37°

11:36 -14 m. 37°

13:05 +18 m. 46°

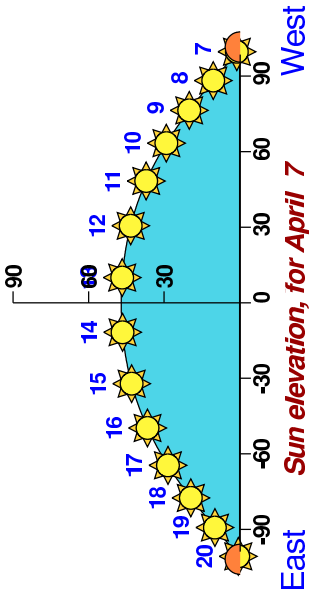
13:09 +22 m. 46°

13:13 +26 m. 47°

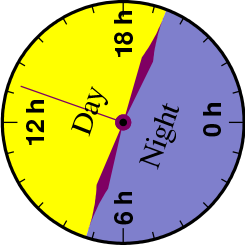
Duration of the day - Variation - Sun maximal elevation (°)

Week 15

September 2014



Darmstadt
8.65°E, 49.87°N



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 Darmstadt (TL ± 1 mn)

96 - 269
06:50 - 20:06

96 - 269
06:48 - 20:08

96 - 269
06:46 - 20:10

96 - 269
06:44 - 20:11

264 - 101
07:18 - 19:15

264 - 101
07:19 - 19:13

264 - 101
07:21 - 19:11

13:16

+3 m.

47°

13:20

+7 m.

47°

13:24

+11 m.

48°

13:27

+14 m.

48°

11:58

-18 m.

39°

11:54

-22 m.

38°

11:50

-26 m.

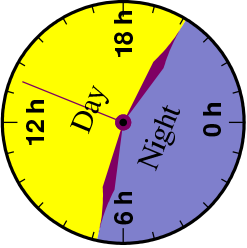
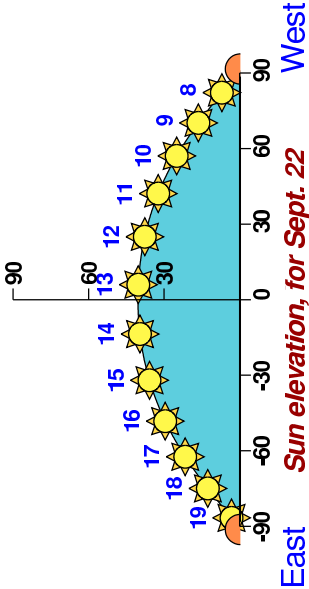
38°

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

Week 39

April 2014

Darmstadt
8.65°E, 49.87°N



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 Darmstadt (TL ± 1 mn)

264 - 101
07:12 - 19:24

264 - 101
07:13 - 19:22

264 - 101
07:15 - 19:20

264 - 101
07:16 - 19:18

96 - 269
06:42 - 20:13

96 - 269
06:40 - 20:14

96 - 269
06:37 - 20:16

12:13

-3 m.

40°

12:09

-7 m.

40°

12:05

-11 m.

40°

12:02

-14 m.

39°

13:31

+18 m.

49°

13:35

+22 m.

49°

13:38

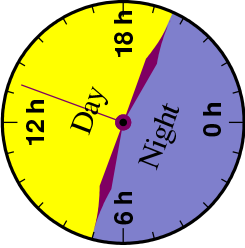
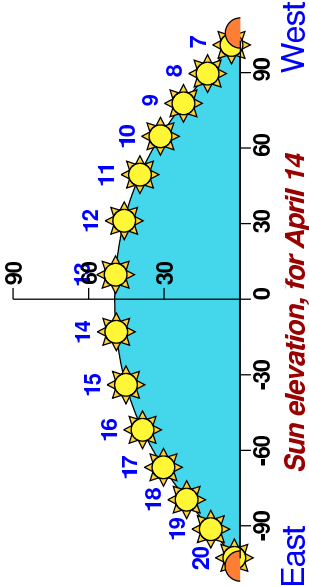
+25 m.

49°

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

Week 16

September 2014



Darmstadt
8.65°E, 49.87°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 Darmstadt (TL ± 1 mn)

103 - 262
06:35 - 20:17

103 - 262
06:33 - 20:19

103 - 262
06:31 - 20:20

103 - 262
06:29 - 20:22

257 - 108
07:07 - 19:31

257 - 108
07:09 - 19:28

257 - 108
07:10 - 19:26

13:42

+4 m.

50°

13:46

+8 m.

50°

13:49

+11 m.

50°

13:53

+15 m.

51°

12:24

-18 m.

42°

12:20

-22 m.

41°

12:16

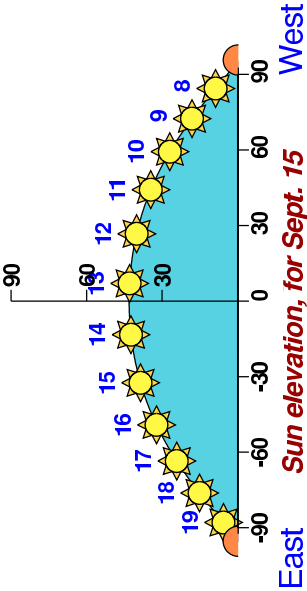
-26 m.

41°

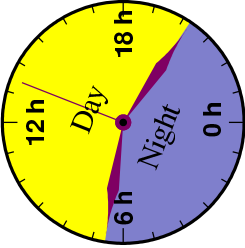
Duration of the day - Variation - Sun maximal elevation (°)

Week 38

April 2014



Darmstadt
8.65°E, 49.87°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 Darmstadt (TL ± 1 mn)

257 - 108
07:01 - 19:39

257 - 108
07:03 - 19:37

257 - 108
07:04 - 19:35

257 - 108
07:06 - 19:33

103 - 262
06:27 - 20:24

103 - 262
06:25 - 20:25

103 - 262
06:23 - 20:27

12:38

-4 m.

43°

12:35

-7 m.

43°

12:31

-11 m.

42°

12:27

-15 m.

42°

13:56

+18 m.

51°

14:00

+22 m.

51°

14:03

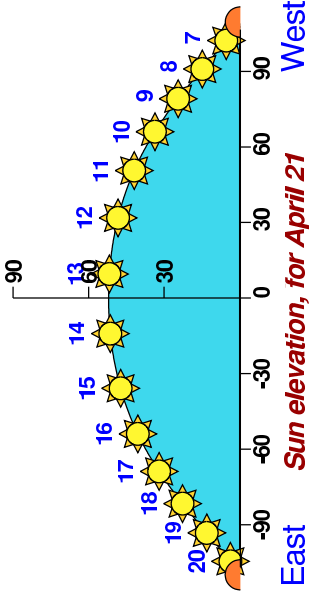
+25 m.

52°

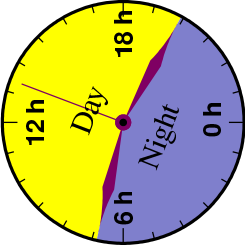
Duration of the day - Variation - Sun maximal elevation (°)

Week 17

September 2014



Darmstadt
8.65°E, 49.87°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 Darmstadt (TL ± 1 mn)

110 - 255
06:21 - 20:28

110 - 255
06:19 - 20:30

110 - 255
06:18 - 20:31

110 - 255
06:16 - 20:33

250 - 115
06:57 - 19:46

250 - 115
06:58 - 19:44

250 - 115
07:00 - 19:42

14:07 +4 m. 52°

14:10 +7 m. 52°

14:14 +11 m. 53°

14:17 +14 m. 53°

12:49

12:46

12:42

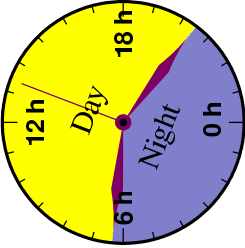
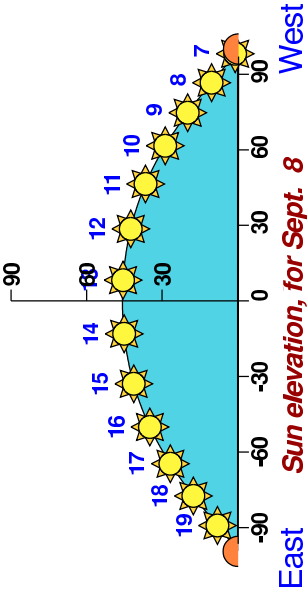
-26 m.

43°

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

Week 37

April 2014



Darmstadt
8.65°E, 49.87°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 Darmstadt (TL ± 1 mn)

250 - 115
06:51 - 19:55

250 - 115
06:52 - 19:53

250 - 115
06:54 - 19:50

250 - 115
06:55 - 19:48

110 - 255
06:14 - 20:34

110 - 255
06:12 - 20:36

110 - 255
06:10 - 20:38

13:04

-4 m.

46°

-8 m.

45°

12:57

-11 m.

45°

12:53

-15 m.

45°

14:21

+18 m.

53°

14:24

+21 m.

54°

14:28

+25 m.

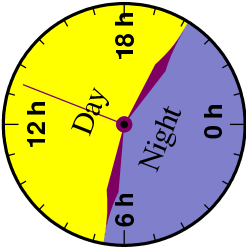
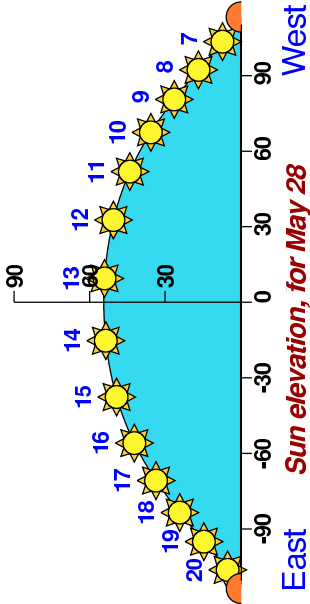
54°

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

Week 18

September 2014

Darmstadt
8.65°E, 49.87°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 Darmstadt (TL ± 1 mn)

117 - 248
06:08 - 20:39

117 - 248
06:06 - 20:41

117 - 248
06:04 - 20:42

117 - 248
06:03 - 20:44

243 - 122
06:46 - 20:01

243 - 122
06:48 - 19:59

243 - 122
06:49 - 19:57

14:31 +3 m. 54°

14:34 +6 m. 55°

14:38 +10 m. 55°

14:41 +13 m. 55°

13:15 -18 m. 47°

13:11 -22 m. 47°

13:08

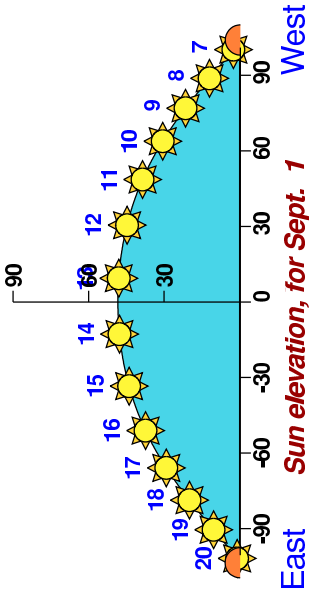
-25 m.

46°

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

Week 36

April - May 2014



Darmstadt
8.65°E, 49.87°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 Darmstadt (TL ± 1 mn)

243 - 122
06:40 - 20:10

243 - 122
06:42 - 20:08

243 - 122
06:43 - 20:05

243 - 122
06:45 - 20:03

117 - 248
06:01 - 20:45

117 - 248
05:59 - 20:47

117 - 248
05:57 - 20:48

13:29 -4 m. 48°

13:26 -7 m. 48°

13:22 -11 m. 48°

13:19 -14 m. 47°

14:44

14:48

14:51

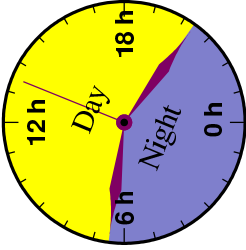
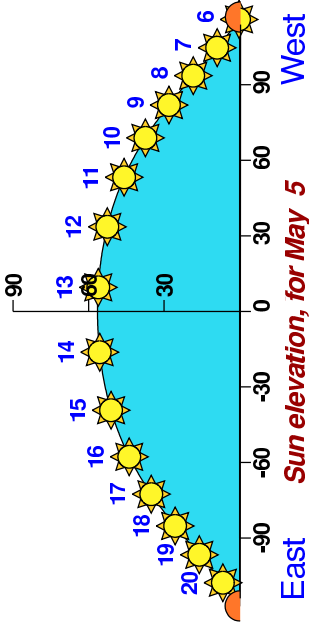
56°

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

Week 19

August 2014

Darmstadt
8.65°E, 49.87°N



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 Darmstadt (TL ± 1 mn)

124 - 241

05:56 - 20:50

124 - 241

05:54 - 20:51

124 - 241

05:53 - 20:53

124 - 241

05:51 - 20:54

236 - 129

06:36 - 20:16

236 - 129

06:37 - 20:14

236 - 129

06:39 - 20:12

14:54

+3 m.

56°

14:57

+6 m.

57°

15:00

+9 m.

57°

15:03

+12 m.

57°

13:40

-18 m.

49°

13:37

-21 m.

49°

13:33

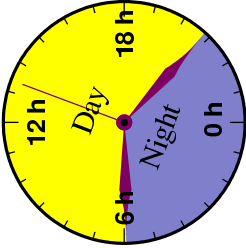
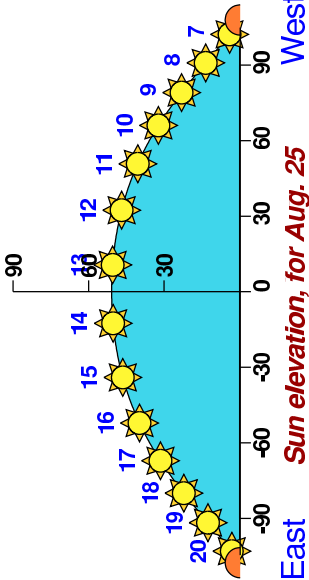
-25 m.

49°

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

Week 35

May 2014



Darmstadt
8.65°E, 49.87°N

East Sun elevation, for Aug. 25 West

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 Darmstadt (TL ± 1 mn)

236 - 129
06:30 - 20:24

236 - 129
06:32 - 20:22

236 - 129
06:33 - 20:20

236 - 129
06:35 - 20:18

124 - 241
05:49 - 20:56

124 - 241
05:48 - 20:57

124 - 241
05:46 - 20:59

13:54

-4 m.

51°

13:51

-7 m.

50°

13:47

-11 m.

50°

13:44

-14 m.

50°

15:06

+15 m.

58°

15:09

+18 m.

58°

15:12

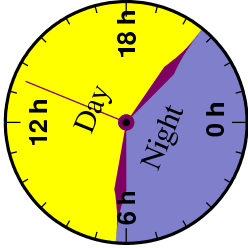
+21 m.

58°

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

Week 20

August 2014



Darmstadt
8.65°E, 49.87°N

East Sun elevation, for May 12 West

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 Darmstadt (TL ± 1 mn)

131 - 234
05:45 - 21:00

131 - 234
05:43 - 21:01

131 - 234
05:42 - 21:03

131 - 234
05:40 - 21:04

229 - 136
06:26 - 20:30

229 - 136
06:27 - 20:28

229 - 136
06:29 - 20:26

15:15 +3 m. 58°

15:18 +6 m. 59°

15:21 +9 m. 59°

15:24 +12 m. 59°

14:05 -17 m. 52°

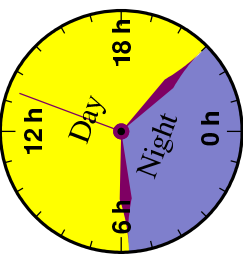
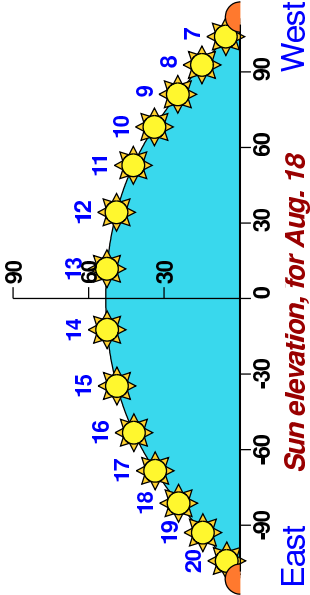
14:01 -21 m. 52°

13:58 -24 m. 51°

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

Week 34

May 2014



Darmstadt
8.65°E, 49.87°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 Darmstadt (TL ± 1 mn)

229 - 136
06:20 - 20:38

229 - 136
06:21 - 20:36

229 - 136
06:23 - 20:34

229 - 136
06:24 - 20:32

131 - 234
05:39 - 21:06

131 - 234
05:38 - 21:07

131 - 234
05:36 - 21:08

14:19

-3 m.

53°

14:15

-7 m.

53°

14:12

-10 m.

53°

14:08

-14 m.

52°

15:27

+15 m.

59°

15:29

+17 m.

60°

15:32

+20 m.

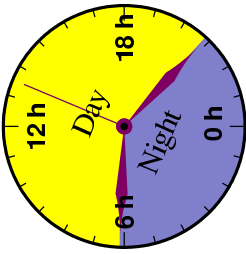
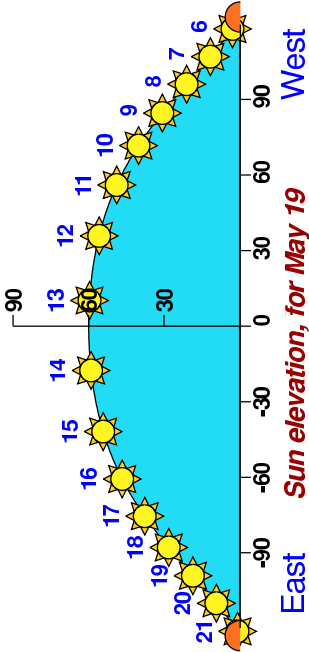
60°

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

Week
21

August 2014

Darmstadt
8.65°E, 49.87°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 Darmstadt (TL ± 1 mn)

138 - 227

05:35 - 21:10

138 - 227

05:34 - 21:11

138 - 227

05:33 - 21:12

138 - 227

05:32 - 21:14

222 - 143

06:15 - 20:44

222 - 143

06:17 - 20:42

222 - 143

06:18 - 20:40

15:35

+3 m.

60°

15:37

+5 m.

60°

15:40

+8 m.

60°

15:42

+10 m.

61°

14:29

-16 m.

54°

14:25

-20 m.

54°

14:22

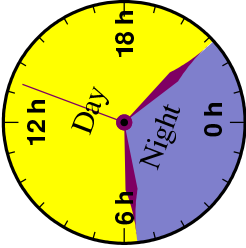
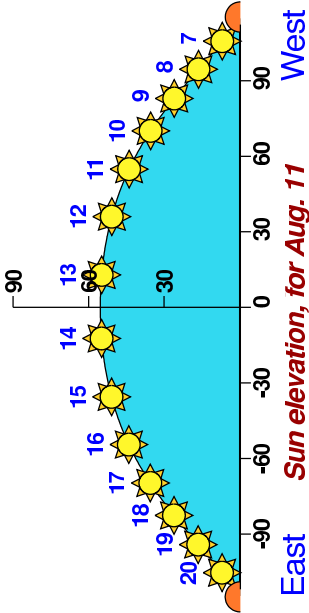
-23 m.

53°

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

Week 33

May 2014



Darmstadt
8.65°E, 49.87°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 Darmstadt (TL ± 1 mn)

222 - 143
06:09 - 20:51

222 - 143
06:11 - 20:49

222 - 143
06:12 - 20:48

222 - 143
06:14 - 20:46

138 - 227
05:30 - 21:15

138 - 227
05:29 - 21:16

138 - 227
05:28 - 21:17

14:42

-3 m.

55°

14:39

-6 m.

55°

14:35

-10 m.

55°

14:32

-13 m.

54°

15:45

+13 m.

61°

15:47

+15 m.

61°

15:49

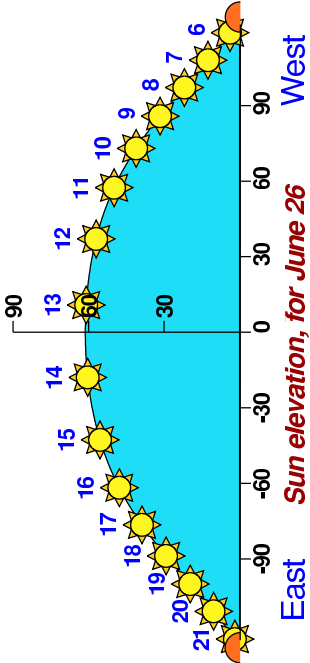
+17 m.

61°

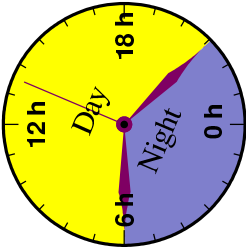
Duration of the day - Variation - Sun maximal elevation (°)

Week 22

August 2014



Darmstadt
8.65°E, 49.87°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 Darmstadt (TL ± 1 mn)

145 - 220
05:27 - 21:19

145 - 220
05:26 - 21:20

145 - 220
05:25 - 21:21

145 - 220
05:25 - 21:22

215 - 150
06:05 - 20:56

215 - 150
06:06 - 20:55

215 - 150
06:08 - 20:53

15:51

+2 m.

61 °

15:53

+4 m.

61 °

15:56

+7 m.

62 °

15:58

+9 m.

62 °

14:51

-16 m.

56 °

14:48

-19 m.

56 °

14:45

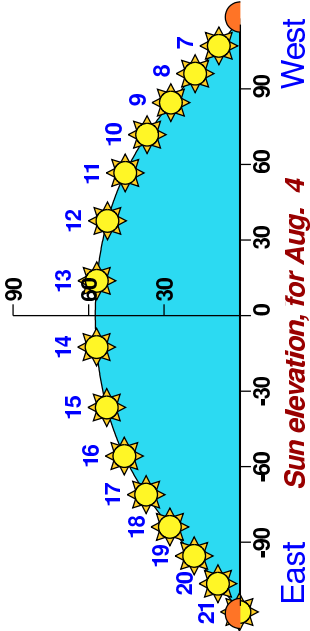
-22 m.

56 °

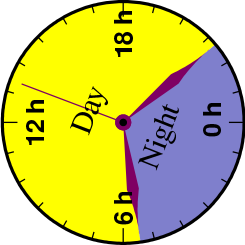
Duration of the day - Variation - Sun maximal elevation (°)

Week 32

May - June 2014



Darmstadt
8.65°E, 49.87°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 Darmstadt (TL ± 1 mn)

215 - 150
05:59 - 21:03

215 - 150
06:01 - 21:01

215 - 150
06:02 - 21:00

215 - 150
06:04 - 20:58

145 - 220
05:24 - 21:23

145 - 220
05:23 - 21:24

145 - 220
05:22 - 21:25

15:04

-3 m.

57°

15:01

-6 m.

57°

14:58

-9 m.

57°

14:55

-12 m.

57°

15:59

+10 m.

62°

16:01

+12 m.

62°

16:03

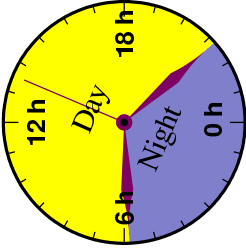
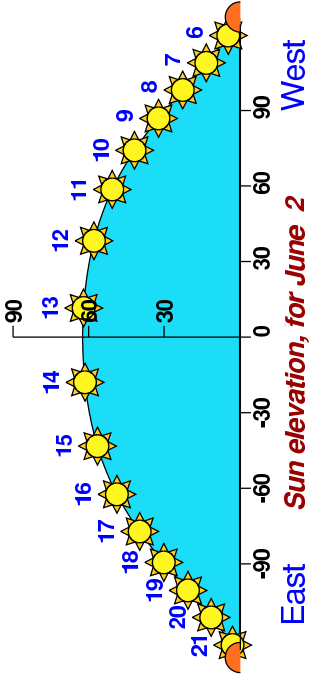
+14 m.

62°

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

Week 23

July - Aug. 2014



Darmstadt
8.65°E, 49.87°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 Darmstadt (TL ± 1 mn)

152 - 213
05:21 - 21:26

152 - 213
05:21 - 21:27

152 - 213
05:20 - 21:28

152 - 213
05:20 - 21:29

208 - 157
05:55 - 21:08

208 - 157
05:56 - 21:06

208 - 157
05:58 - 21:05

16:05 +2 m. 62°

16:06 +3 m. 62°

16:08 +5 m. 63°

16:09 +6 m. 63°

15:13 -14 m. 58°

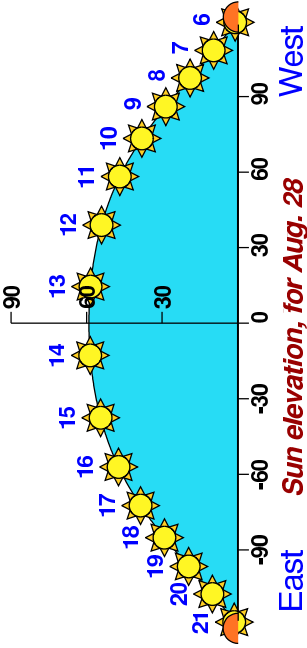
15:10 -17 m. 58°

15:07 -20 m. 58°

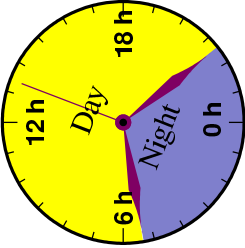
Duration of the day - Variation - Sun maximal elevation (°)

Week 31

June 2014



Darmstadt
8.65°E, 49.87°N



Duration of the day, for June 2

Monday 28

Tuesday 29

Wednesday 30

Thursday 31

Friday 6

Saturday 7

Sunday 8

Sunrise and Sunset at Darmstadt (TL ± 1 mn)

208 - 157
05:50 - 21:14

208 - 157
05:51 - 21:12

208 - 157
05:52 - 21:11

208 - 157
05:54 - 21:09

152 - 213
05:19 - 21:30

152 - 213
05:19 - 21:31

152 - 213
05:18 - 21:31

15:24

-3 m.

59°

15:21

-6 m.

59°

15:19

-8 m.

59°

15:16

-11 m.

58°

16:11

+8 m.

63°

16:12

+9 m.

63°

16:13

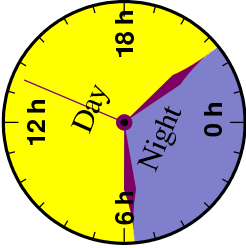
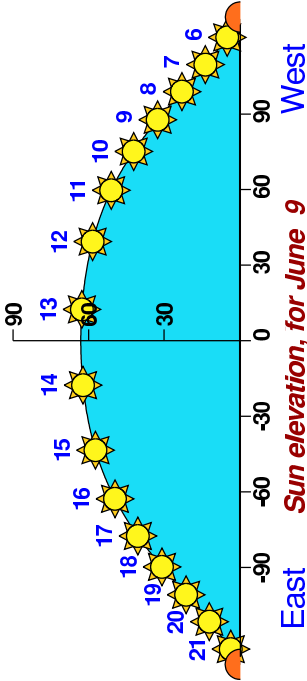
+10 m.

63°

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

Week 24

July 2014



Darmstadt
8.65°E, 49.87°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 Darmstadt (TL ± 1 mn)

159 - 206
05:18 - 21:32

16:15 +2 m. 63°

159 - 206
05:17 - 21:33

16:16 +3 m. 63°

159 - 206
05:17 - 21:34

16:17 +4 m. 63°

159 - 206
05:17 - 21:34

16:17 +4 m. 63°

201 - 164
05:46 - 21:18

15:32 -13 m. 60°

201 - 164
05:47 - 21:16

15:30 -15 m. 60°

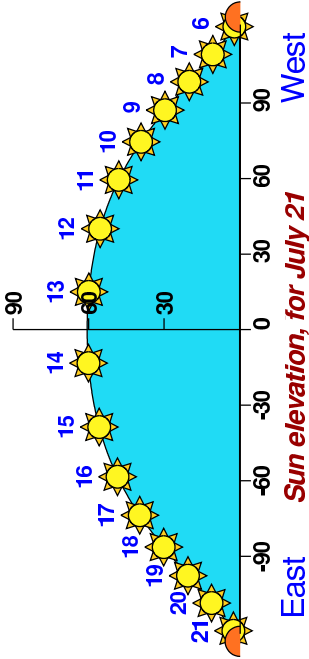
201 - 164
05:48 - 21:15

15:27 -18 m. 59°

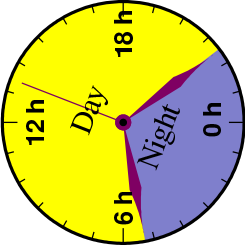
Duration of the day - Variation - Sun maximal elevation (°)

Week 30

June 2014



Darmstadt
8.65°E, 49.87°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 Darmstadt (TL ± 1 mn)

201 - 164
05:40 - 21:23

201 - 164
05:42 - 21:22

201 - 164
05:43 - 21:20

201 - 164
05:44 - 21:19

159 - 206
05:17 - 21:35

159 - 206
05:17 - 21:35

159 - 206
05:16 - 21:36

15:42

-3 m.

61 °

15:40

-5 m.

60 °

15:37

-8 m.

60 °

15:35

-10 m.

60 °

16:18

+5 m.

63 °

16:19

+6 m.

63 °

16:19

+6 m.

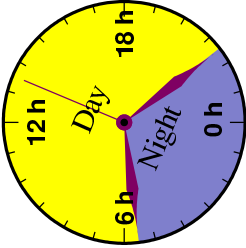
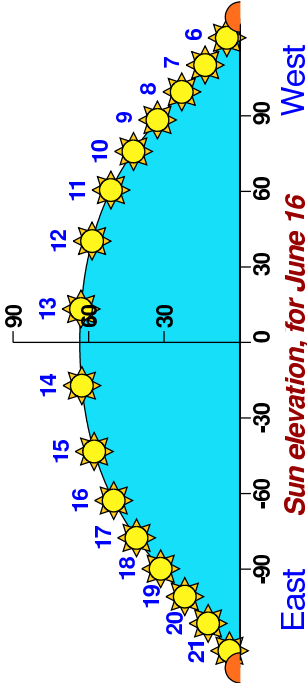
63 °

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

Week 25

July 2014

Darmstadt
8.65°E, 49.87°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 Darmstadt (TL ± 1 mn)

166 - 199
05:16 - 21:36

16:20 +1 m. 63°

166 - 199
05:16 - 21:37

16:20 +1 m. 64°

166 - 199
05:16 - 21:37

16:21 +2 m. 64°

166 - 199
05:17 - 21:37

16:21 +2 m. 64°

194 - 171
05:37 - 21:26

15:49 -11 m. 61°

194 - 171
05:38 - 21:25

15:47 -13 m. 61°

194 - 171
05:39 - 21:24

15:45 -15 m. 61°

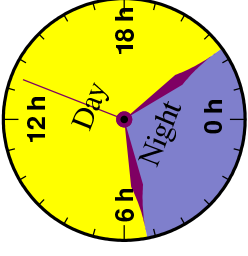
Duration of the day - Variation - Sun maximal elevation (°)

East **Sun elevation, for July 14** **West**

90 30 60

14 13 12 11 10 9 8 7 6

15 16 17 18 19 20 21



Duration of the day, for June 16

Sunday 22

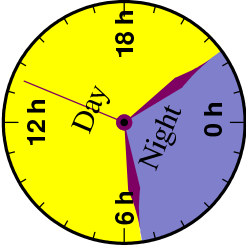
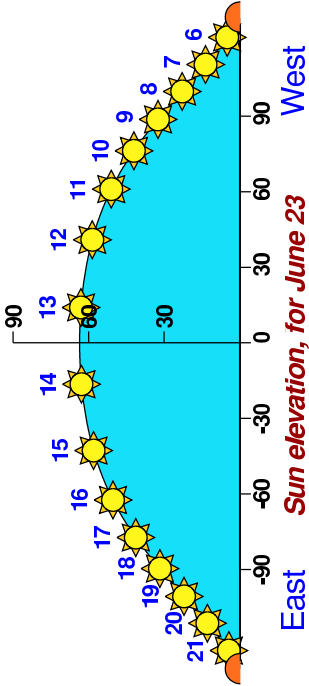
166 - 199
05:17 - 21:38

64°

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

Week 26

July 2014



Darmstadt
8.65°E, 49.87°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 Darmstadt (TL ± 1 mn)

173 - 192
05:17 - 21:38

173 - 192
05:18 - 21:38

173 - 192
05:18 - 21:38

173 - 192
05:18 - 21:38

187 - 178
05:29 - 21:32

187 - 178
05:30 - 21:32

187 - 178
05:31 - 21:31

16:21

16:21

16:20

16:20

16:03

16:01

16:00

64°

+0 m.

-1 m.

-1 m.

-8 m.

-10 m.

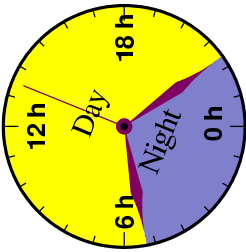
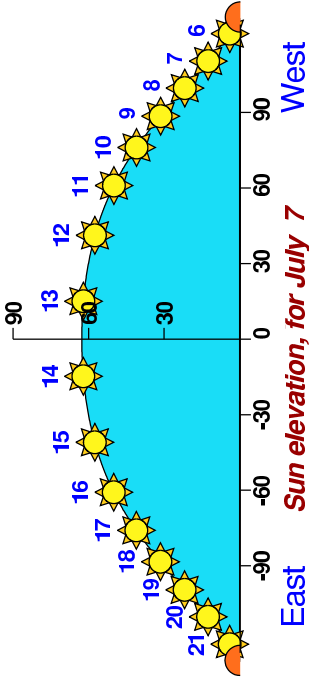
-11 m.

62°

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

Week 28

June 2014



Darmstadt
8.65°E, 49.87°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 Darmstadt (TL ± 1 mn)

187 - 178
05:26 - 21:35

187 - 178
05:26 - 21:34

187 - 178
05:27 - 21:34

187 - 178
05:28 - 21:33

173 - 192
05:19 - 21:38

173 - 192
05:19 - 21:38

173 - 192
05:20 - 21:38

16:09 -2 m. 63°

16:08 -3 m. 63°

16:06 -5 m. 62°

16:05 -6 m. 62°

16:19 -2 m. 63°

16:19 -2 m. 63°

16:19 -2 m. 63°

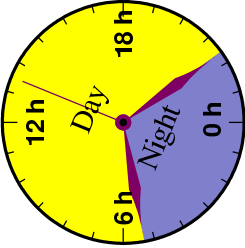
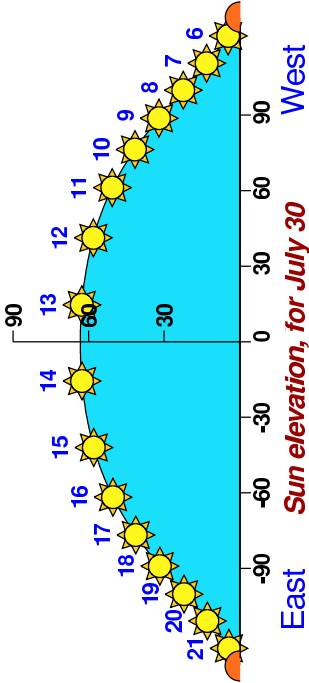
16:18 -3 m. 63°

63°

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

Week 27

June - July 2014



Darmstadt
8.65°E, 49.87°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 Darmstadt (TL ± 1 mn)

180 - 185
05:20 - 21:38

16:17 -1 m. 63°

180 - 185
05:21 - 21:37

16:16 -2 m. 63°

180 - 185
05:22 - 21:37

16:15 -3 m. 63°

180 - 185
05:22 - 21:37

16:14 -4 m. 63°

180 - 185
05:23 - 21:36

16:13 -5 m. 63°

180 - 185
05:24 - 21:36

16:12 -6 m. 63°

180 - 185
05:25 - 21:35

-7 m. 63°

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