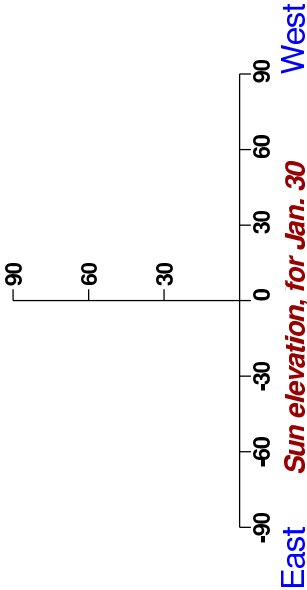


# Sun Diary 2014

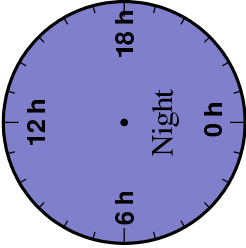
© Patrick ROBERT, PatCie, Déc. 2012

Week **1**

**Dec. - Jan. 2015**



**Tromso**  
18.955°E, 69.649°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 Tromso (TL ± 1 mn)*

**363 - 2**

Polar Night

**363 - 2**

Polar Night

**363 - 2**

Polar Night

**363 - 2**

Polar Night

**362 - 3**

Polar Night

**362 - 3**

Polar Night

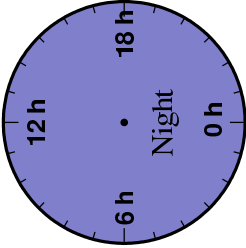
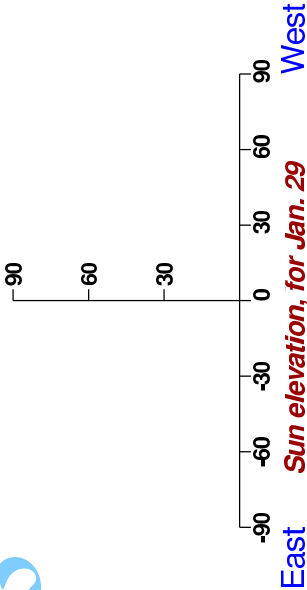
**362 - 3**

Polar Night

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

Week 53

Dec. - Jan. 2014



Tromso  
18.955°E, 69.649°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 Tromso (TL ± 1 mn)

362 - 3

Polar Night

362 - 3

Polar Night

362 - 3

Polar Night

362 - 3

Polar Night

363 - 2

Polar Night

363 - 2

Polar Night

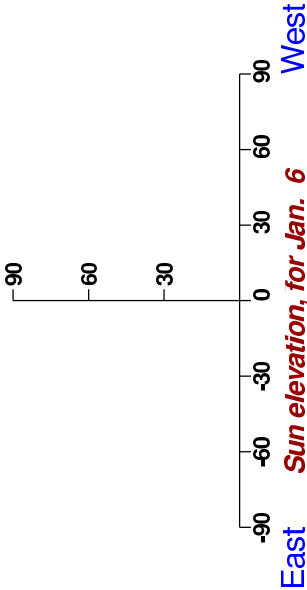
363 - 2

Polar Night

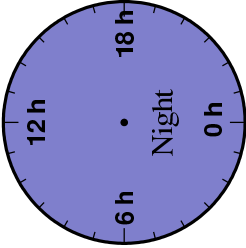
Duration of the day - Variation - Sun maximal elevation (°)

Week 2

December 2014



Tromso  
18.955°E, 69.649°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 Tromso (TL ± 1 mn)

5 - 360

Polar Night

5 - 360

Polar Night

5 - 360

Polar Night

5 - 360

Polar Night

355 - 10

Polar Night

355 - 10

Polar Night

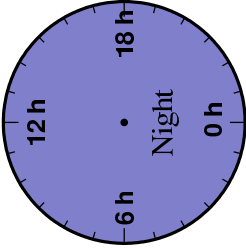
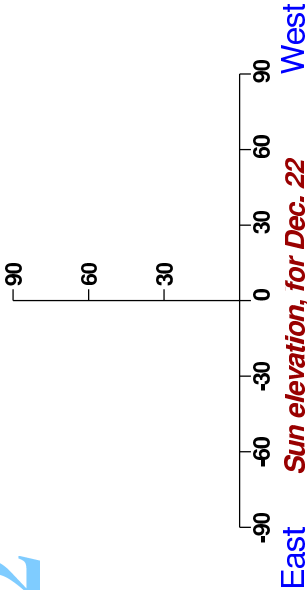
355 - 10

Polar Night

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

Week 52

January 2014



Tromso  
18.955°E, 69.649°N

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 Tromso (TL ± 1 mn)

355 - 10

Polar Night

355 - 10

Polar Night

355 - 10

Polar Night

355 - 10

Polar Night

5 - 360

Polar Night

5 - 360

Polar Night

5 - 360

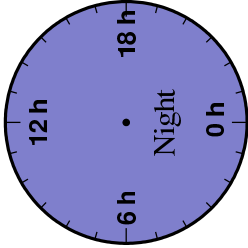
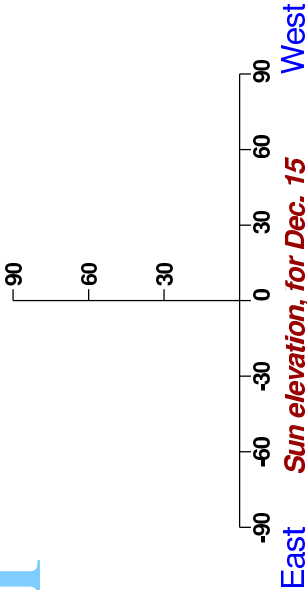
Polar Night

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



Week 51

January 2014



Tromso  
18.955°E, 69.649°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 Tromso (TL ± 1 mn)

348 - 17

Polar Night

348 - 17

Polar Night

348 - 17

Polar Night

348 - 17

Polar Night

12 - 353

11:03 - 12:47

12 - 353

10:53 - 12:57

12 - 353

10:45 - 13:06

1:43

+103 m.

0°

2:03

+123 m.

0°

2:21

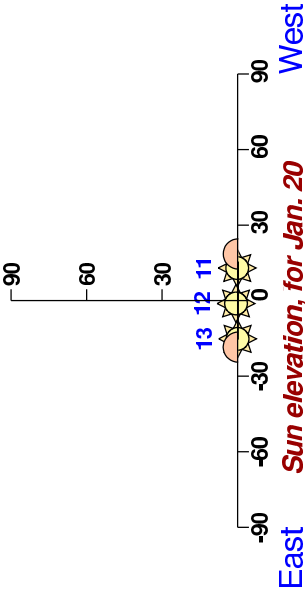
+141 m.

1°

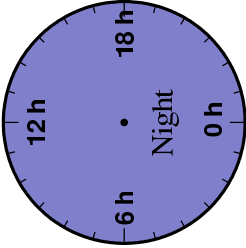
Duration of the day - Variation - Sun maximal elevation (°)

Week 4

December 2014



Tromsø  
18.955°E, 69.649°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 Tromsø (TL ± 1 nm)

19 - 346  
10:37 - 13:15

19 - 346  
10:30 - 13:23

19 - 346  
10:23 - 13:30

19 - 346  
10:16 - 13:37

341 - 24  
Polar Night

341 - 24  
Polar Night

341 - 24  
Polar Night

2:38

+17 m. 1°

2:53

+32 m. 1°

3:07

+46 m. 1°

3:21

+60 m. 1°

1°

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

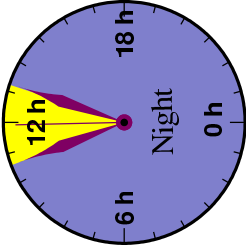
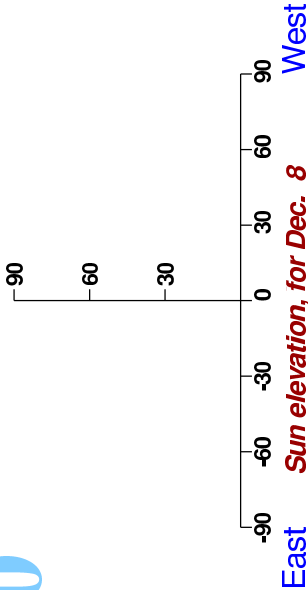


Week 50

January 2014

Tromso

18.955°E, 69.649°N



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 Tromso (TL ± 1 mn)

341 - 24  
Polar Night

341 - 24  
Polar Night

341 - 24  
Polar Night

341 - 24  
Polar Night

19 - 346  
10:10 - 13:44

19 - 346  
10:04 - 13:51

19 - 346  
09:58 - 13:57

+98 m.

3:59

+86 m.

3:47

+73 m.

3:34

2°

2°

2°

2°

2°

2°

2°

2°

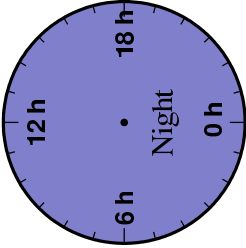
2°

2°

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

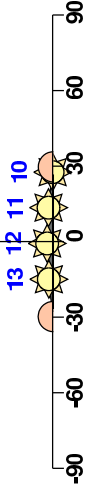
Week **5**

# December 2014



**Tromsø**  
18.955°E, 69.649°N

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



**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 Tromsø (TL ± 1 mn)*

**26 - 339**  
09:52 - 14:03

**26 - 339**  
09:46 - 14:09

**26 - 339**  
09:41 - 14:15

**26 - 339**  
09:35 - 14:21

**334 - 31**  
Polar Night

**334 - 31**  
Polar Night

**334 - 31**  
Polar Night

4:11

**+12 m.**

2°

4:23

**+24 m.**

2°

4:34

**+35 m.**

3°

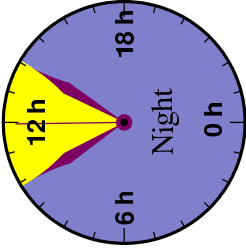
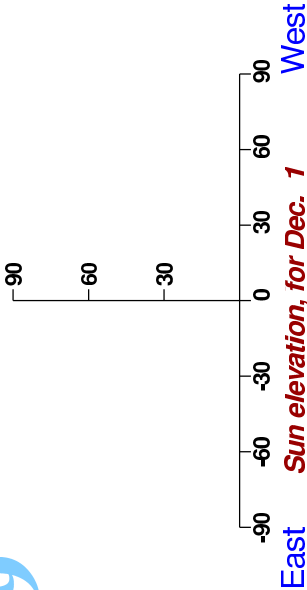
4:45

**+46 m.**

3°

Week 49

Jan. - Feb. 2014



Tromso  
18.955°E, 69.649°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 Tromso (TL ± 1 mn)

334 - 31

Polar Night

334 - 31

Polar Night

334 - 31

Polar Night

334 - 31

Polar Night

26 - 339

09:30 - 14:27

26 - 339

09:25 - 14:32

26 - 339

09:19 - 14:38

+79 m.

5:18

+68 m.

5:07

+57 m.

4:56

3°

4°

4°

4°

4°

4°

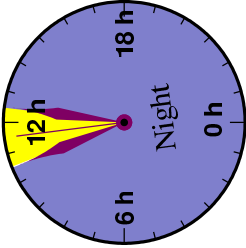
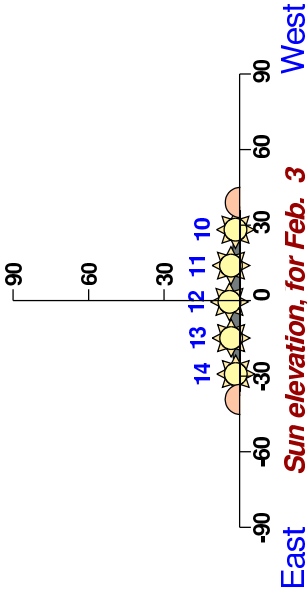
4°

4°

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

Week 6

November 2014



Tromsø  
18.955°E, 69.649°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 Tromsø (TL ± 1 mn)

33 - 332  
09:14 - 14:43

33 - 332  
09:09 - 14:48

33 - 332  
09:04 - 14:54

33 - 332  
08:59 - 14:59

327 - 38  
Polar Night

327 - 38  
Polar Night

327 - 38  
Polar Night

5:28

+10 m. 4°

5:39

+21 m. 4°

5:49

+31 m. 5°

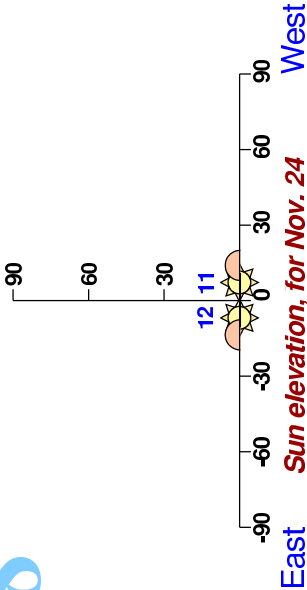
5:59

+41 m. 5°

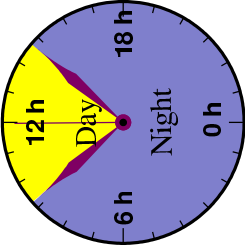
Duration of the day - Variation - Sun maximal elevation (°)

Week  
48

February 2014



Tromsø  
18.955°E, 69.649°N



Duration of the day, for Feb. 24

Monday 24

Tuesday 25

Wednesday 26

Thursday 27

Friday 7

Saturday 8

Sunday 9

Sunrise and Sunset at Tromsø (TL ± 1 mn)

327 - 38  
10:32 - 12:30

327 - 38  
10:42 - 12:19

327 - 38  
10:56 - 12:07

327 - 38  
11:17 - 11:46

33 - 332  
08:54 - 15:04

33 - 332  
08:49 - 15:09

33 - 332  
08:44 - 15:14

1:57

-19 m.

0°

1:37

-39 m.

0°

1:11

-65 m.

0°

0:29

-107 m.

0°

6:09

+51 m.

5°

6:19

+61 m.

6°

6:29

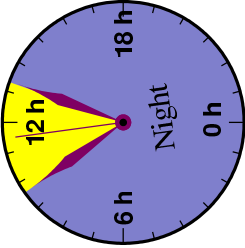
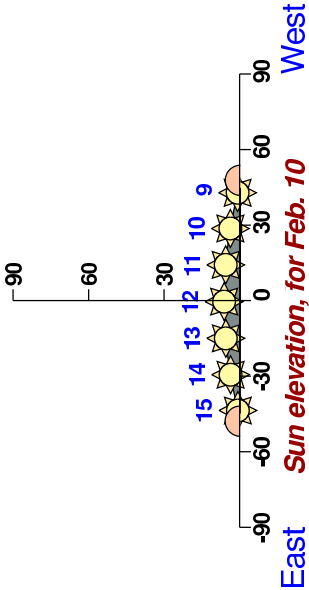
+71 m.

6°

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

Week 7

# November 2014



Tromsø  
18.955°E, 69.649°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 Tromsø (TL ± 1 mn)

40 - 325  
08:40 - 15:19

40 - 325  
08:35 - 15:24

40 - 325  
08:30 - 15:29

40 - 325  
08:25 - 15:33

320 - 45  
10:06 - 12:54

320 - 45  
10:14 - 12:46

320 - 45  
10:22 - 12:38

6:39

+10 m.

6°

6:49

+20 m.

7°

6:58

+29 m.

7°

7:08

+39 m.

7°

2:48

-66 m.

1°

2:32

-82 m.

1°

2:16

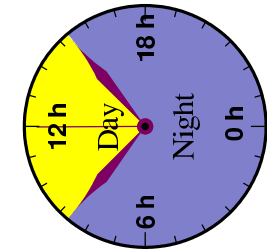
-98 m.

1°

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

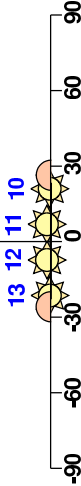
Week 47

February 2014



Tromsø  
18.955°E, 69.649°N

East Sun elevation, for Nov. 17 West



Duration of the day, for Feb. 10

Monday 17

Tuesday

18

Wednesday

19

Thursday

20

Friday

14

Saturday

15

Sunday

16

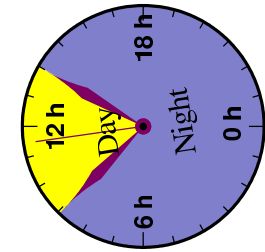
Sunrise and Sunset at Tromsø (TL ± 1 mn)

|                           |                           |                           |                           |                           |                           |                           |           |      |           |      |           |      |           |
|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|-----------|------|-----------|------|-----------|------|-----------|
| 320 - 45<br>09:38 - 13:20 | 320 - 45<br>09:44 - 13:14 | 320 - 45<br>09:51 - 13:07 | 320 - 45<br>09:58 - 13:01 | 40 - 325<br>08:20 - 15:38 | 40 - 325<br>08:16 - 15:43 | 40 - 325<br>08:11 - 15:47 |           |      |           |      |           |      |           |
|                           |                           |                           |                           |                           |                           |                           |           |      |           |      |           |      |           |
| 3:42                      | -12 m. 2°                 | 3:29                      | -25 m. 1°                 | 3:16                      | -38 m. 1°                 | 3:02                      | -52 m. 1° | 7:17 | +48 m. 8° | 7:27 | +58 m. 8° | 7:36 | +67 m. 8° |

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

Week 8

# November 2014



Tromsø  
18.955°E, 69.649°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 Tromsø (TL ± 1 mn)

47 - 318  
08:06 - 15:52

47 - 318  
08:02 - 15:57

47 - 318  
07:57 - 16:01

47 - 318  
07:52 - 16:05

313 - 52  
09:19 - 13:37

313 - 52  
09:25 - 13:32

313 - 52  
09:31 - 13:26

7:45

+9 m.

9°

+19 m.

9°

+28 m.

9°

+37 m.

10°

4:18

-55 m.

2°

4:06

-67 m.

2°

3:54

-79 m.

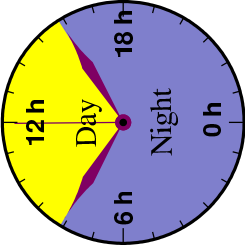
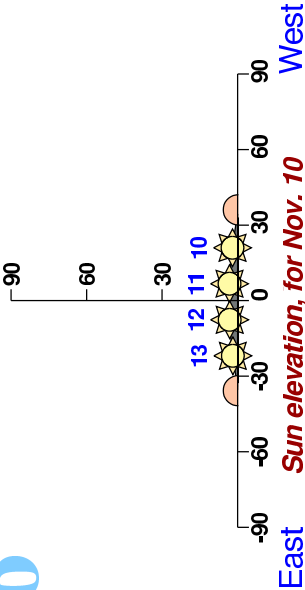
2°

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



Week 46

February 2014



Tromso  
18.955°E, 69.649°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 Tromso (TL ± 1 mn)

313 - 52  
08:56 - 13:59

313 - 52  
09:02 - 13:54

313 - 52  
09:07 - 13:48

313 - 52  
09:13 - 13:43

47 - 318  
07:48 - 16:10

47 - 318  
07:43 - 16:14

47 - 318  
07:38 - 16:19

5:02

-11 m.

3°

4:52

-21 m.

3°

4:41

-32 m.

3°

4:29

-44 m.

3°

8:22

+46 m.

10°

8:31

+55 m.

10°

8:40

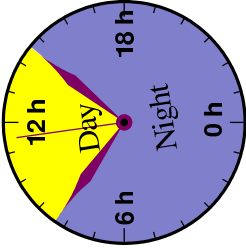
+64 m.

11°

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

Week **9**

# November 2014



**Tromso**  
18.955°E, 69.649°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 Tromso (TL ± 1 mn)*

**54 - 311**  
07:34 - 16:23

**54 - 311**  
07:29 - 16:27

**54 - 311**  
07:25 - 16:32

**54 - 311**  
07:20 - 16:36

**306 - 59**  
08:40 - 14:15

**306 - 59**  
08:45 - 14:10

**306 - 59**  
08:51 - 14:04

8:49 **+9 m.** 11°

8:58 **+18 m.** 11°

9:07 **+27 m.** 12°

9:16 **+36 m.** 12°

5:34 **-50 m.** 4°

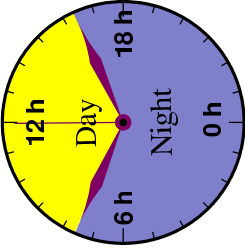
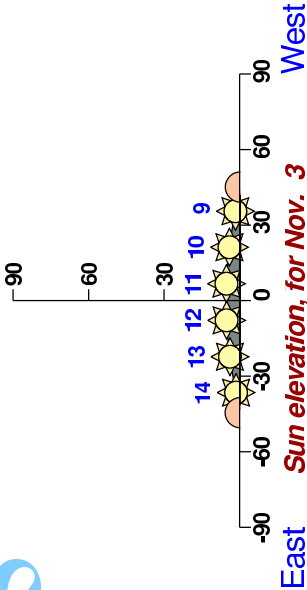
5:24 **-60 m.** 4°

5:13 **-71 m.** 4°

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

Week 45

Feb. - March 2014



Tromsø  
18.955°E, 69.649°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 Tromsø (TL ± 1 mn)

306 - 59  
08:20 - 14:35

306 - 59  
08:25 - 14:30

306 - 59  
08:30 - 14:25

306 - 59  
08:35 - 14:20

54 - 311  
07:15 - 16:40

54 - 311  
07:11 - 16:44

54 - 311  
07:06 - 16:49

6:14

-10 m.

5°

6:04

-20 m.

5°

5:54

-30 m.

5°

5:44

-40 m.

5°

9:24

+44 m.

13°

9:33

+53 m.

13°

9:42

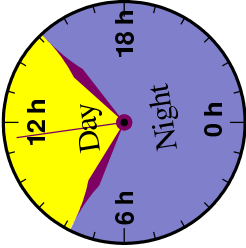
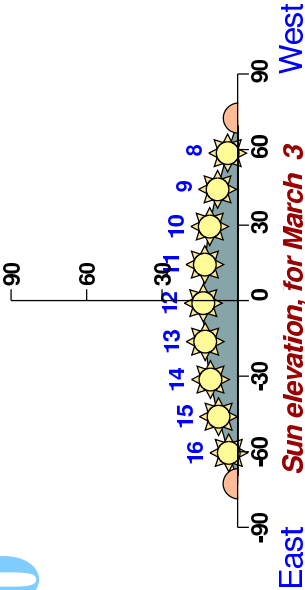
+62 m.

13°

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

Week 10

Oct. - Nov. 2014



Tromsø

18.955°E, 69.649°N

East Sun elevation, for March 3 West

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 Tromsø (TL ± 1 mn)

61 - 304  
07:02 - 16:53

61 - 304  
06:57 - 16:57

61 - 304  
06:53 - 17:01

61 - 304  
06:48 - 17:05

299 - 66  
08:05 - 14:49

299 - 66  
08:10 - 14:44

299 - 66  
08:15 - 14:39

9:51

+9 m.

14°

9:59

+17 m.

14°

10:08

+26 m.

14°

10:17

+35 m.

15°

6:43

-47 m.

6°

6:34

-56 m.

6°

6:24

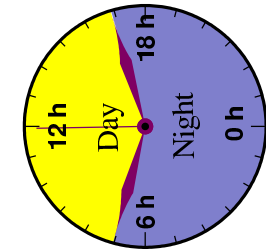
-66 m.

6°

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

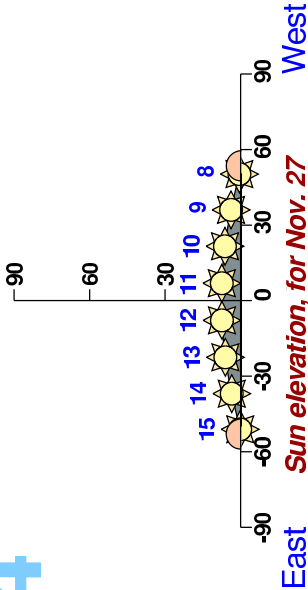
Week 44

March 2014



Tromsø  
18.955°E, 69.649°N

Duration of the day, for March 8



Monday 27

Tuesday 28

Wednesday 29

Thursday 30

Friday 7

Saturday 8

Sunday 9

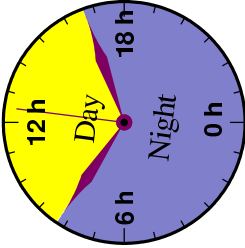
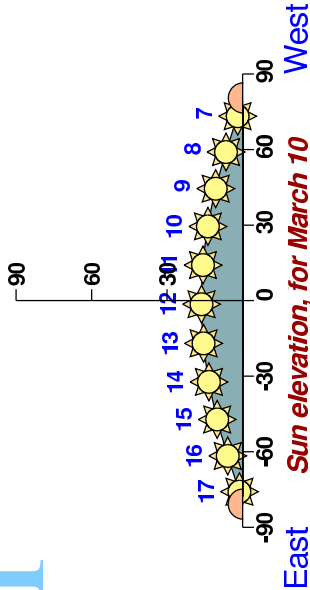
Sunrise and Sunset at Tromsø (TL ± 1 mn)

|                           |                           |                           |                           |                           |                           |                           |
|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| 299 - 66<br>07:47 - 15:08 | 299 - 66<br>07:51 - 15:04 | 299 - 66<br>07:56 - 14:59 | 299 - 66<br>08:01 - 14:54 | 61 - 304<br>06:43 - 17:09 | 61 - 304<br>06:39 - 17:13 | 61 - 304<br>06:34 - 17:17 |
|                           |                           |                           |                           |                           |                           |                           |
| 7:21 -9 m.                | 7:12 -18 m.               | 7:02 -28 m.               | 6:53 -37 m.               | 10:26 +44 m.              | 10:34 +52 m.              | 10:43 +61 m.              |
| 8°                        | 7°                        | 7°                        | 7°                        | 15°                       | 16°                       | 16°                       |

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

Week **11**

**October 2014**



**Tromsø**  
18.955°E, 69.649°N

**Duration of the day, for Oct. 20**

**Monday 10**

**Tuesday 11**

**Wednesday 12**

**Thursday 13**

**Friday 24**

**Saturday 25**

**Sunday 26**

*Sunrise and Sunset at Tromsø (TL ± 1 mn)*

**68 - 297**  
06:30 - 17:21

**68 - 297**  
06:25 - 17:25

**68 - 297**  
06:21 - 17:29

**68 - 297**  
06:16 - 17:33

**292 - 73**  
08:33 - 16:22

**292 - 73**  
08:38 - 16:18

**292 - 73**  
07:42 - 15:13

**10:52**

**+9 m.**

**16°**

**+17 m.**

**17°**

**11:09**

**+26 m.**

**17°**

**11:17**

**+34 m.**

**18°**

**7:49**

**-45 m.**

**9°**

**7:40**

**-54 m.**

**8°**

**7:30**

**-64 m.**

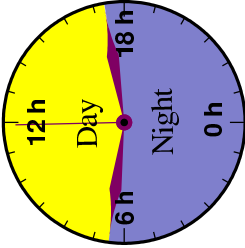
**8°**

*Time change October 26*

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

Week 43

March 2014



Tromso

18.955°E, 69.649°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 Tromso (TL ± 1 mn)

292 - 73

08:16 - 16:41

292 - 73

08:20 - 16:36

292 - 73

08:24 - 16:32

292 - 73

08:29 - 16:27

68 - 297

06:12 - 17:37

68 - 297

06:07 - 17:41

68 - 297

06:03 - 17:45

8:25

-9 m.

10°

8:16

-18 m.

10°

8:07

-27 m.

9°

7:58

-36 m.

9°

11:26

+43 m.

18°

11:34

+51 m.

18°

11:43

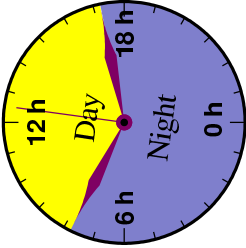
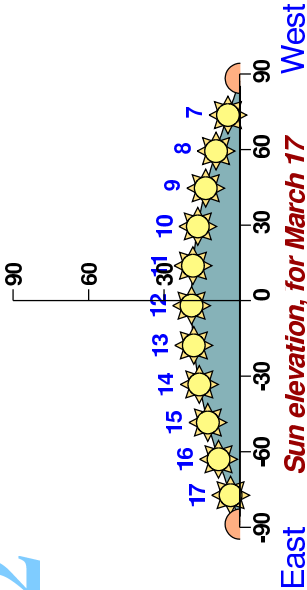
+60 m.

19°

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

Week 12

October 2014



Tromsø  
18.955°E, 69.649°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 Tromsø (TL ± 1 mn)

75 - 290  
05:58 - 17:49

75 - 290  
05:54 - 17:53

75 - 290  
05:49 - 17:57

75 - 290  
05:45 - 18:01

285 - 80  
08:03 - 16:55

285 - 80  
08:07 - 16:50

285 - 80  
08:12 - 16:46

11:51 +8 m. 19°

12:00 +17 m. 20°

12:08 +25 m. 20°

12:17 +34 m. 20°

8:51 -44 m. 11°

8:43 -62 m. 11°

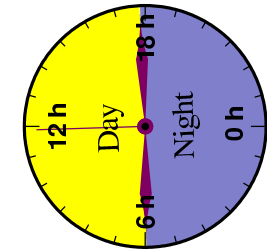
8:34 -61 m. 10°

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



Week 42

March 2014



Tromso  
18.955°E, 69.649°N

East Sun elevation, for Oct. 13 West

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 Tromso (TL ± 1 mn)

285 - 80  
07:46 - 17:13

285 - 80  
07:51 - 17:09

285 - 80  
07:55 - 17:04

285 - 80  
07:59 - 16:59

75 - 290  
05:40 - 18:05

75 - 290  
05:35 - 18:09

75 - 290  
05:31 - 18:13

9:26

-9 m.

13°

9:18

-17 m.

12°

9:09

-26 m.

12°

9:00

-35 m.

11°

12:26

+43 m.

21°

12:34

+51 m.

21°

12:43

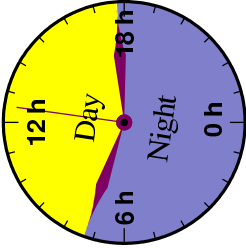
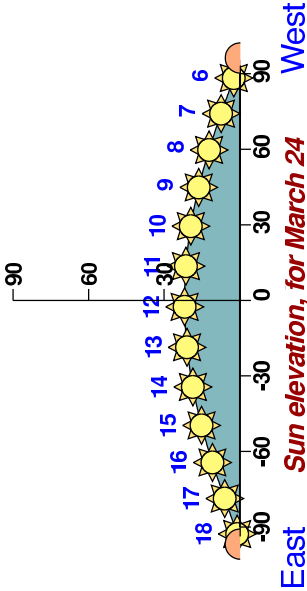
+60 m.

21°

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

Week 13

October 2014



Tromsø

18.955°E, 69.649°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 Tromsø (TL ± 1 mn)

82 - 283

05:26 - 18:17

82 - 283

05:22 - 18:21

82 - 283

05:17 - 18:25

82 - 283

05:13 - 18:29

278 - 87

07:34 - 17:27

278 - 87

07:38 - 17:22

278 - 87

07:42 - 17:18

12:51

+8 m.

22°

13:00

+17 m.

22°

13:08

+25 m.

23°

13:17

+34 m.

23°

9:52

-43 m.

14°

9:44

-51 m.

13°

9:35

-60 m.

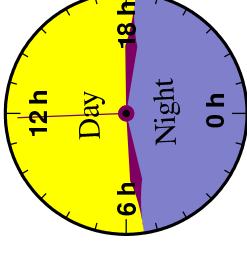
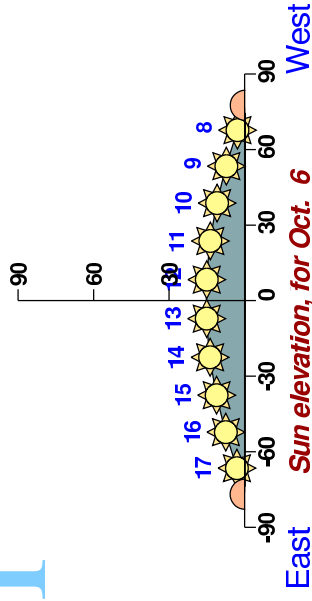
13°

13°

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

# 41 Week

# March 2014



# Tromsø

18.955°E, 69.649°N

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

***Duration of the day, for March 24***

# Monday

**7**  
**Tuesday**

8  
Wednesday

## Thursday

**Friday**  
**28**

## 29 Saturday

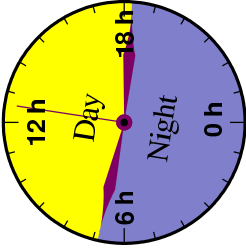
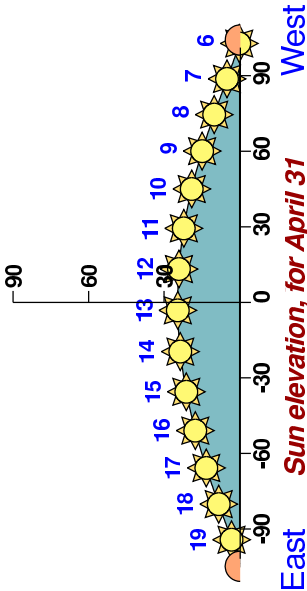
30 Sunday

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

|                                                  |                                                   |                                                   |                                                   |  |  |  |                                                   |                                                   |                                                   |  |
|--------------------------------------------------|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|--|--|--|---------------------------------------------------|---------------------------------------------------|---------------------------------------------------|--|
| <div>278 - 87</div> <div>07:18 - 17:45</div>     | <div>278 - 87</div> <div>07:22 - 17:40</div>      | <div>278 - 87</div> <div>07:26 - 17:36</div>      | <div>278 - 87</div> <div>07:30 - 17:31</div>      |  |  |  | <div>82 - 283</div> <div>05:08 - 18:33</div>      | <div>82 - 283</div> <div>05:03 - 18:37</div>      | <div>82 - 283</div> <div>05:59 - 19:41</div>      |  |
| <div>10:27</div> <div>-8 m.</div> <div>15°</div> | <div>10:18</div> <div>-17 m.</div> <div>15°</div> | <div>10:10</div> <div>-25 m.</div> <div>14°</div> | <div>10:01</div> <div>-34 m.</div> <div>14°</div> |  |  |  | <div>13:25</div> <div>+42 m.</div> <div>23°</div> | <div>13:34</div> <div>+51 m.</div> <div>24°</div> | <div>13:43</div> <div>+60 m.</div> <div>24°</div> |  |
| <div>Time change March 30</div>                  |                                                   |                                                   |                                                   |  |  |  |                                                   |                                                   |                                                   |  |

Week 14

Sept. - Oct. 2014



Tromsø

18.955°E, 69.649°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 Tromsø (TL ± 1 mn)

89 - 276  
05:54 - 19:45

89 - 276  
05:50 - 19:49

89 - 276  
05:45 - 19:54

89 - 276  
05:40 - 19:58

271 - 94

07:06 - 17:58

271 - 94  
07:10 - 17:54

271 - 94  
07:14 - 17:49

13:51

+8 m.

25°

14:00

+17 m.

25°

14:09

+26 m.

25°

14:17

+34 m.

26°

10:52

-42 m.

16°

10:44

-50 m.

16°

10:35

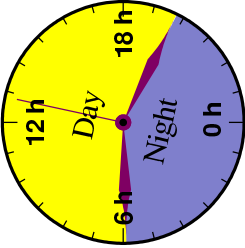
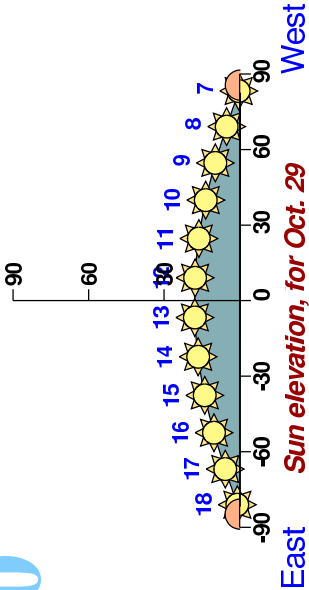
-59 m.

16°

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

Week 40

March - April 2014



Tromso  
18.955°E, 69.649°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 Tromso (TL ± 1 mn)

271 - 94  
06:51 - 18:17

271 - 94  
06:55 - 18:12

271 - 94  
06:59 - 18:08

271 - 94  
07:02 - 18:03

89 - 276  
05:36 - 20:02

89 - 276  
05:31 - 20:06

89 - 276  
05:26 - 20:10

11:26

-8 m.

18°

11:17

-17 m.

18°

11:09

-25 m.

17°

11:01

-33 m.

17°

14:26

+43 m.

26°

14:35

+52 m.

27°

14:44

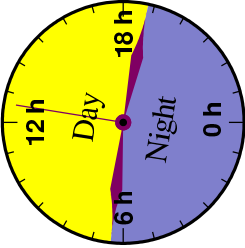
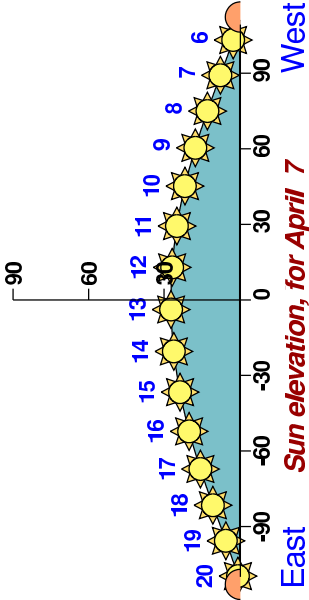
+61 m.

27°

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

Week 15

September 2014



Tromsø  
18.955°E, 69.649°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 Tromsø (TL ± 1 mn)

96 - 269  
05:22 - 20:14

96 - 269  
05:17 - 20:18

96 - 269  
05:12 - 20:22

96 - 269  
05:08 - 20:27

264 - 101  
06:39 - 18:30

264 - 101  
06:43 - 18:26

264 - 101  
06:47 - 18:21

14:52

+8 m. 27°

15:01

+17 m. 28°

15:10

+26 m. 28°

15:19

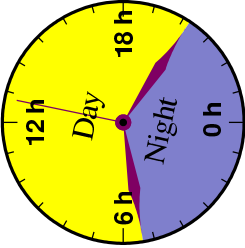
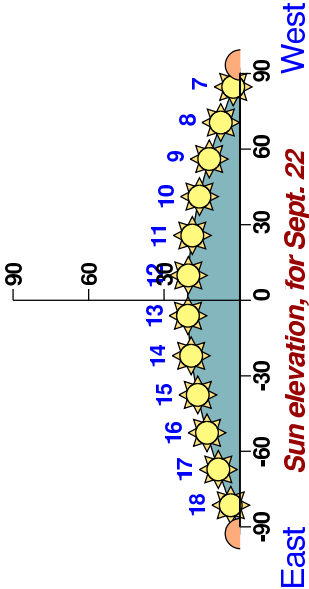
+35 m. 28°

18°

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

Week 39

April 2014



Duration of the day, for April 7

Tromsø  
18.955°E, 69.649°N

Monday 22

Tuesday 23

Wednesday 24

Thursday 25

Friday 11

Saturday 12

Sunday 13

Sunrise and Sunset at Tromsø (TL ± 1 mn)

264 - 101  
06:24 - 18:48

264 - 101  
06:28 - 18:44

264 - 101  
06:31 - 18:39

264 - 101  
06:35 - 18:35

96 - 269  
05:03 - 20:31

96 - 269  
04:58 - 20:35

96 - 269  
04:53 - 20:40

12:25

-8 m.

21°

12:16

-17 m.

20°

12:08

-25 m.

20°

12:00

-33 m.

19°

15:28

+44 m.

29°

15:37

+53 m.

29°

15:46

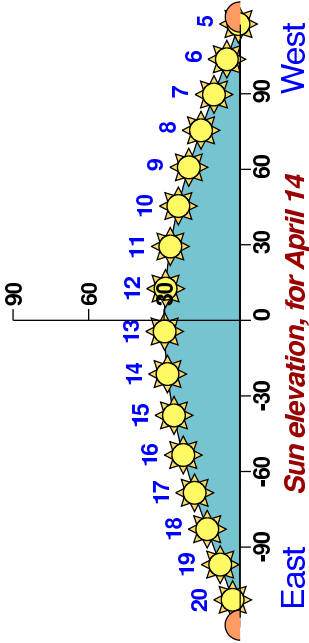
+62 m.

29°

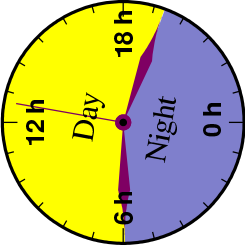
Duration of the day - Variation - Sun maximal elevation (°)

Week 16

September 2014



Tromsø  
18.955°E, 69.649°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 Tromsø (TL ± 1 mn)

103 - 262  
04:48 - 20:44

103 - 262  
04:44 - 20:48

103 - 262  
04:39 - 20:53

103 - 262  
04:34 - 20:57

257 - 108  
06:12 - 19:02

257 - 108  
06:16 - 18:57

257 - 108  
06:20 - 18:53

15:56

+10 m.

30°

16:05

+19 m.

30°

16:14

+28 m.

31°

16:23

+37 m.

31°

12:50

-42 m.

22°

12:41

-51 m.

21°

12:33

-59 m.

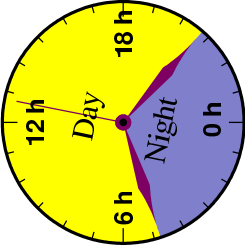
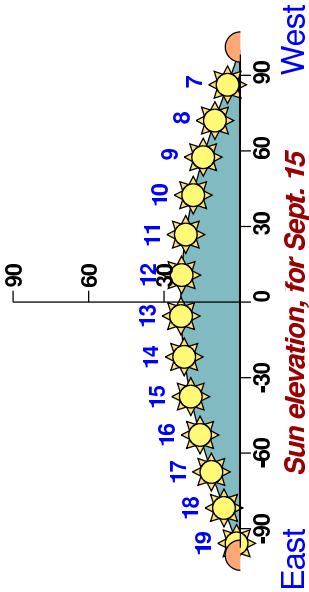
21°

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



Week 38

April 2014



Duration of the day, for April 14

Tromsø

18.955°E, 69.649°N

Monday 15

Tuesday 16

Wednesday 17

Thursday 18

Friday 18

Saturday 19

Sunday 20

Sunrise and Sunset at Tromsø (TL ± 1 mn)

257 - 108  
05:57 - 19:20

257 - 108  
06:01 - 19:16

257 - 108  
06:04 - 19:11

257 - 108  
06:08 - 19:06

103 - 262  
04:29 - 21:02

103 - 262  
04:24 - 21:06

103 - 262  
04:19 - 21:11

13:24

-8 m.

23°

13:15

-17 m.

23°

13:07

-25 m.

23°

12:58

-34 m.

22°

16:33

+47 m.

31°

16:42

+56 m.

32°

16:52

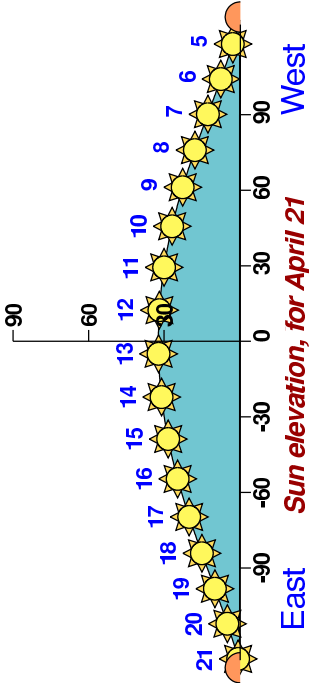
+66 m.

32°

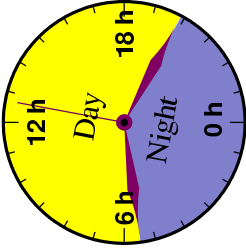
Duration of the day - Variation - Sun maximal elevation (°)

Week 17

September 2014



Tromsø  
18.955°E, 69.649°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 Tromsø (TL ± 1 mn)

110 - 255  
04:14 - 21:15

110 - 255  
04:09 - 21:20

110 - 255  
04:04 - 21:25

110 - 255  
03:59 - 21:30

250 - 115  
05:45 - 19:34

250 - 115  
05:49 - 19:29

250 - 115  
05:53 - 19:25

17:01 +9 m. 32°

17:11 +19 m. 33°

17:21 +29 m. 33°

17:31 +39 m. 33°

13:49 -43 m. 25°

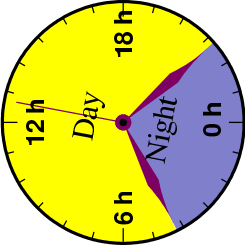
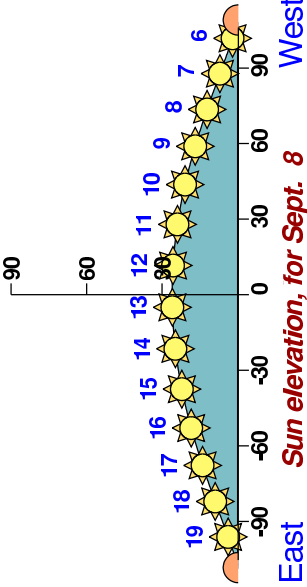
13:41 -51 m. 24°

13:32 -60 m. 24°

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

Week 37

April 2014



Tromsø  
18.955°E, 69.649°N

Duration of the day, for April 27

Monday 8

Tuesday 9

Wednesday 10

Thursday 11

Friday 25

Saturday 26

Sunday 27

Sunrise and Sunset at Tromsø (TL ± 1 mn)

250 - 115  
05:29 - 19:52

250 - 115  
05:33 - 19:48

250 - 115  
05:37 - 19:43

250 - 115  
05:41 - 19:39

110 - 255  
03:54 - 21:35

110 - 255  
03:49 - 21:40

110 - 255  
03:43 - 21:45

14:23

-9 m.

26°

14:15

-17 m.

26°

14:06

-26 m.

25°

13:58

-34 m.

25°

17:41

+49 m.

34°

17:51

+59 m.

34°

18:01

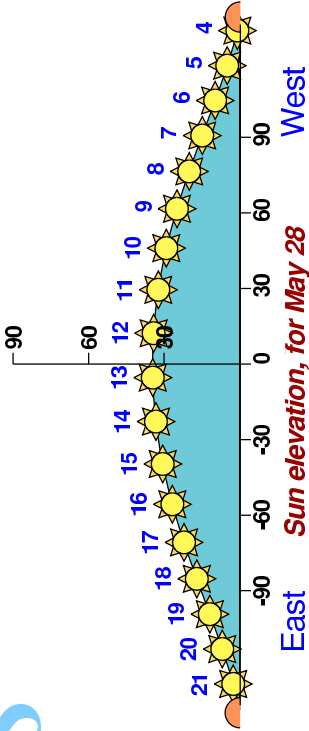
+69 m.

34°

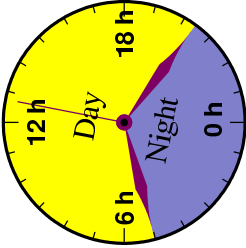
Duration of the day - Variation - Sun maximal elevation (°)

Week 18

September 2014



Tromsø  
18.955°E, 69.649°N



Duration of the day, for Sept. 18

Monday 28

Tuesday 29

Wednesday 30

Thursday 1

Friday 5

Saturday 6

Sunday 7

Sunrise and Sunset at Tromsø (TL ± 1 mn)

117 - 248  
03:38 - 21:50

117 - 248  
03:33 - 21:55

117 - 248  
03:27 - 22:00

117 - 248  
03:22 - 22:06

243 - 122  
05:17 - 20:06

243 - 122  
05:21 - 20:02

243 - 122  
05:25 - 19:57

18:12

18:22

18:33

18:44

14:49

14:41

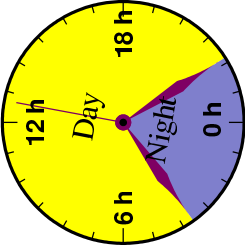
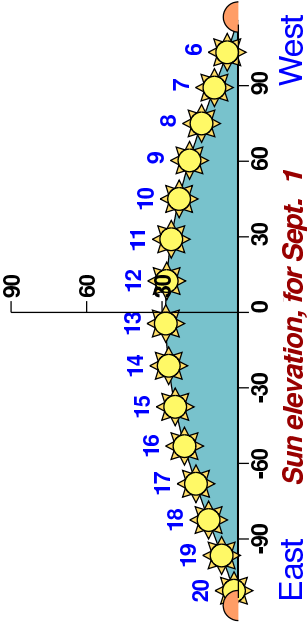
14:32

26°

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

Week 36

April - May 2014



Tromsø  
18.955°E, 69.649°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 Tromsø (TL ± 1 mn)

243 - 122  
05:01 - 20:25

243 - 122  
05:05 - 20:20

243 - 122  
05:09 - 20:16

243 - 122  
05:13 - 20:11

117 - 248  
03:16 - 22:11

117 - 248  
03:10 - 22:17

117 - 248  
03:04 - 22:23

15:25

-8 m.

29°

15:16

-17 m.

28°

15:07

-26 m.

28°

14:58

-35 m.

28°

18:55

+54 m.

36°

19:07

+66 m.

36°

19:18

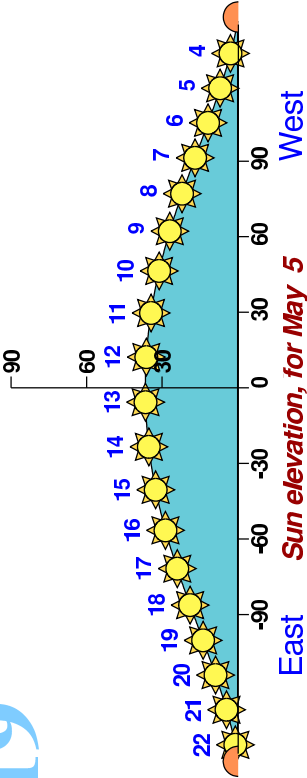
+77 m.

36°

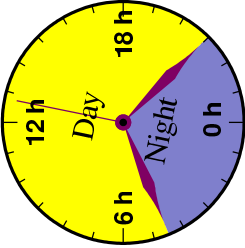
Duration of the day - Variation - Sun maximal elevation (°)

Week 19

August 2014



Tromsø  
18.955°E, 69.649°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 Tromsø (TL ± 1 mn)

124 - 241  
02:58 - 22:29

124 - 241  
02:52 - 22:35

124 - 241  
02:46 - 22:41

124 - 241  
02:40 - 22:48

236 - 129  
04:48 - 20:39

236 - 129  
04:52 - 20:35

236 - 129  
04:57 - 20:30

19:30

+12 m.

37°

19:43

+25 m.

37°

19:55

+37 m.

37°

20:08

+50 m.

38°

15:51

-46 m.

30°

15:42

-55 m.

29°

15:33

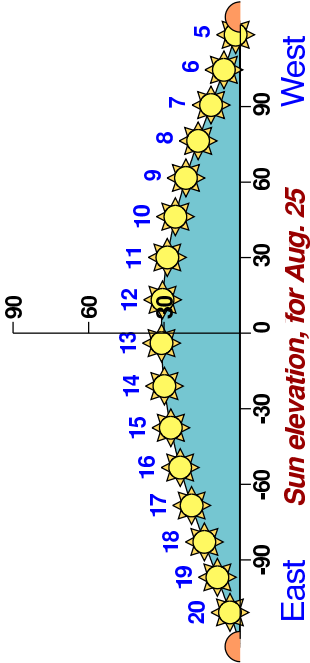
-64 m.

29°

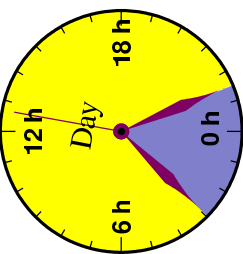
Duration of the day - Variation - Sun maximal elevation (°)

Week 35

May 2014



Tromsø  
18.955°E, 69.649°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 Tromsø (TL ± 1 mn)

236 - 129  
04:31 - 20:59

16:28

-9 m.

31 °

236 - 129  
04:35 - 20:54

16:19

-18 m.

31 °

236 - 129  
04:40 - 20:49

16:10

-27 m.

30 °

236 - 129  
04:44 - 20:44

16:00

-37 m.

30 °

124 - 241  
02:33 - 22:54

20:22

+64 m.

38 °

124 - 241  
02:26 - 23:02

20:36

+78 m.

38 °

124 - 241  
02:19 - 23:09

20:51

+93 m.

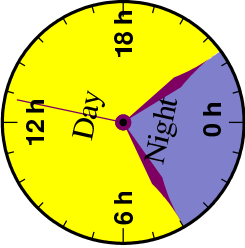
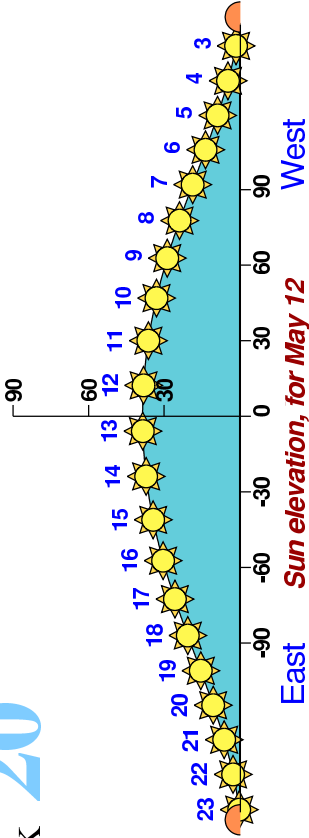
38 °

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

Week 20

# August 2014

Tromso  
18.955°E, 69.649°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 Tromsø (TL ± 1 mn)

131 - 234  
02:11 - 23:17

131 - 234  
01:54 - 23:26

131 - 234  
01:44 - 23:36

131 - 234  
01:33 - 23:47

229 - 136  
04:18 - 21:14

229 - 136  
04:22 - 21:09

229 - 136  
04:27 - 21:04

21:06 +15 m. 39°

21:32 +41 m. 39°

21:52 +61 m. 39°

22:14 +83 m. 39°

16:56 -49 m. 32°

16:47 -68 m. 32°

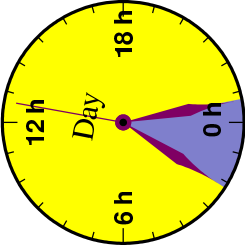
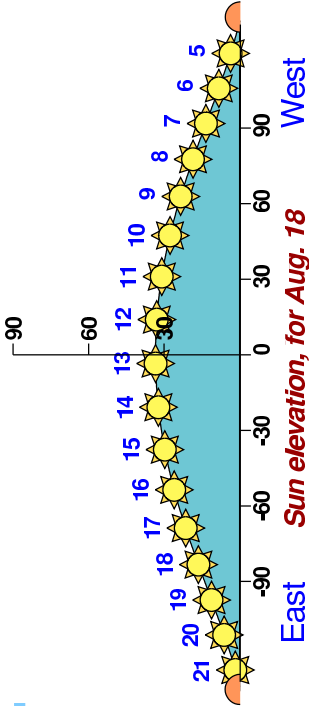
16:37 -68 m. 31°

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



Week 34

May 2014



Tromsø  
18.955°E, 69.649°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 Tromsø (TL ± 1 nm)

229 - 136  
03:59 - 21:34

229 - 136  
04:04 - 21:29

229 - 136  
04:08 - 21:24

229 - 136  
04:13 - 21:19

131 - 234  
01:19 - 00:01

131 - 234  
00:56 - 00:24

131 - 234  
Day at anytime

17:35

-10 m.

33°

17:25

-20 m.

33°

17:15

-30 m.

33°

17:06

-39 m.

32°

22:42

+111 m.

40°

23:28

+157 m.

40°

24:00

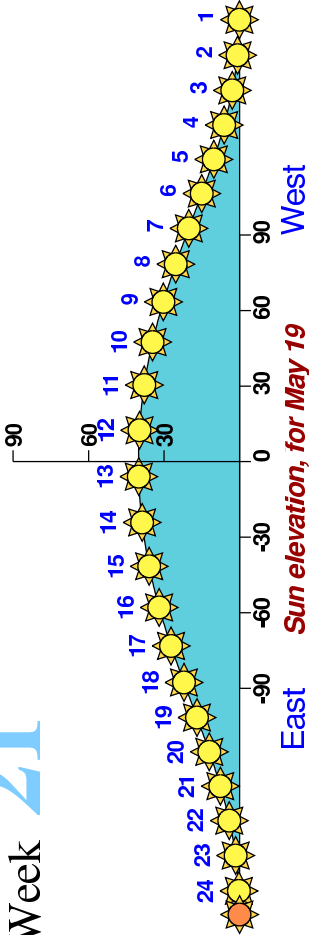
+189 m.

40°

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

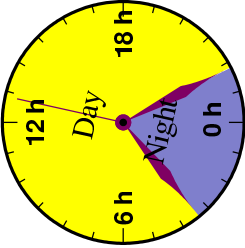
Week  
**21**

**August 2014**



**Tromsø**

18.955°E, 69.649°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 Tromsø (TL ± 1 mn)*

**138 - 227**

Day at anytime

**138 - 227**

Day at anytime

**138 - 227**

Day at anytime

**138 - 227**

Day at anytime

24:00

**+0 m.**

**40 °**

24:00

**+0 m.**

**40 °**

24:00

**+0 m.**

**41 °**

24:00

**+0 m.**

**41 °**

18:05

**-54 m.**

**34 °**

17:55

**-64 m.**

**34 °**

17:45

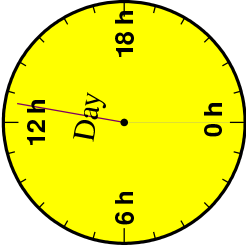
**-74 m.**

**34 °**

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

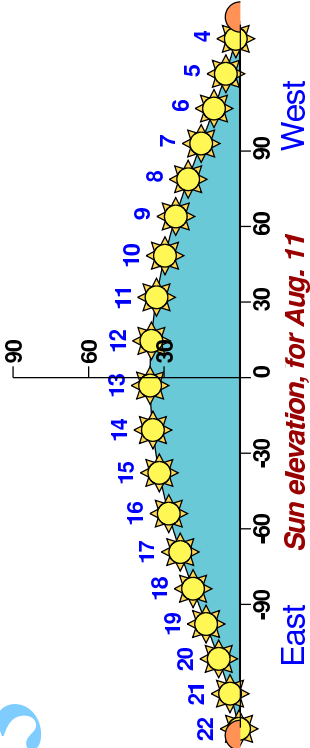
Week 33

May 2014



Tromso  
18.955°E, 69.649°N

East Sun elevation, for Aug. 11 West



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 Tromso (TL ± 1 mn)

222 - 143  
03:24 - 22:11

222 - 143  
03:29 - 22:06

222 - 143  
03:34 - 22:00

222 - 143  
03:39 - 21:55

138 - 227  
Day at anytime

138 - 227  
Day at anytime

138 - 227  
Day at anytime

18:48

-11 m. 36°

18:37

-22 m. 35°

18:26

-33 m. 35°

18:16

-43 m. 35°

24:00

+0 m. 41°

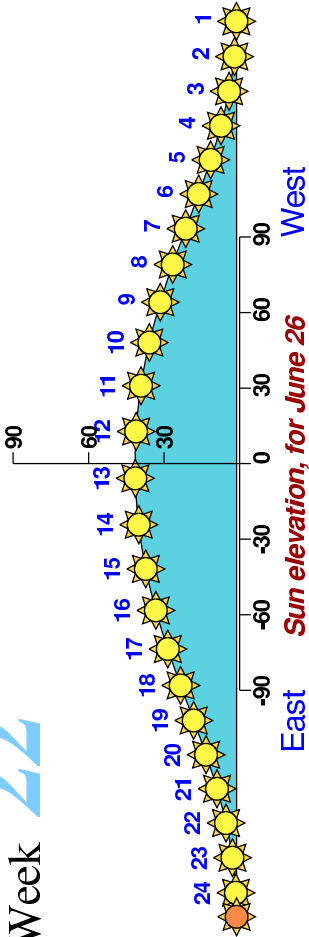
24:00

+0 m. 41°

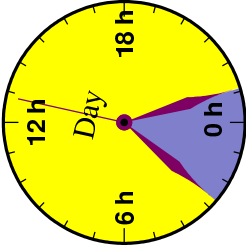
Duration of the day - Variation - Sun maximal elevation (°)

Week 22

August 2014



Tromsø  
18.955°E, 69.649°N



Duration of the day, for Aug. 4

Monday 26

Tuesday 27

Wednesday 28

Thursday 29

Friday 8

Saturday 9

Sunday 10

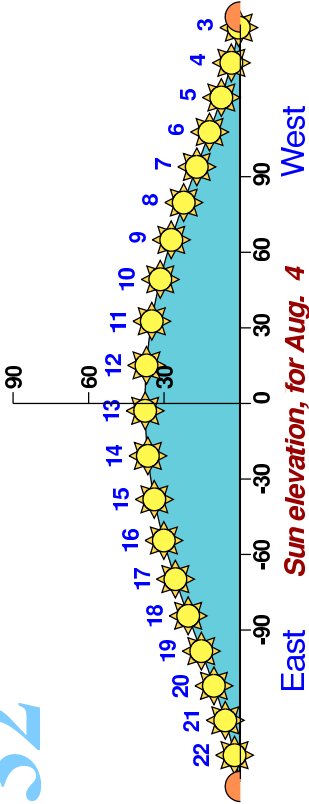
Sunrise and Sunset at Tromsø (TL ± 1 mn)

|                             |                             |                             |                             |                            |                            |                            |
|-----------------------------|-----------------------------|-----------------------------|-----------------------------|----------------------------|----------------------------|----------------------------|
| 145 - 220<br>Day at anytime | 145 - 220<br>Day at anytime | 145 - 220<br>Day at anytime | 145 - 220<br>Day at anytime | 215 - 150<br>03:07 - 22:28 | 215 - 150<br>03:13 - 22:23 | 215 - 150<br>03:18 - 22:17 |
|                             |                             |                             |                             |                            |                            |                            |
| 24:00 +0 m. 42°             | 24:00 +0 m. 42°             | 24:00 +0 m. 42°             | 24:00 +0 m. 42°             | 19:22 -63 m. 36°           | 19:10 -75 m. 36°           | 18:59 -86 m. 36°           |

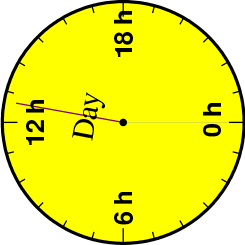
Duration of the day - Variation - Sun maximal elevation (°)

Week 32

May - June 2014



Tromsø  
18.955°E, 69.649°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 Tromsø (TL ± 1 mn)

215 - 150  
02:42 - 22:53

215 - 150  
02:49 - 22:47

215 - 150  
02:55 - 22:41

215 - 150  
03:01 - 22:34

145 - 220  
Day at anytime

145 - 220  
Day at anytime

145 - 220  
Day at anytime

20:11

-14 m.

38°

19:58

-27 m.

37°

19:46

-39 m.

37°

19:34

-51 m.

37°

24:00

+0 m.

42°

24:00

+0 m.

42°

24:00

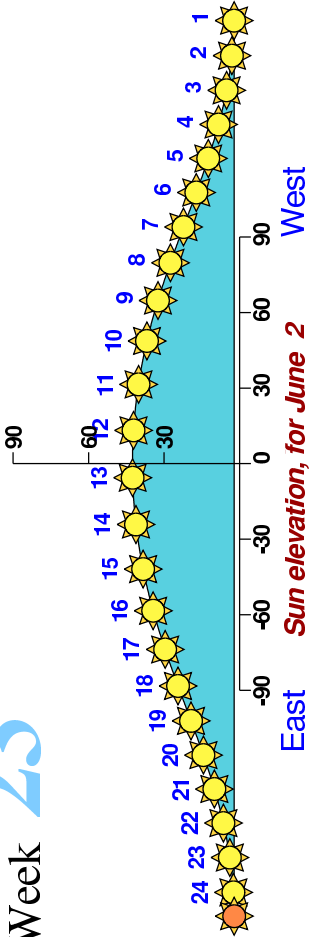
+0 m.

42°

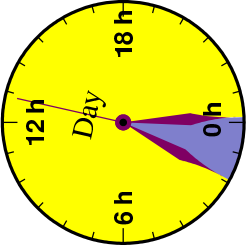
Duration of the day - Variation - Sun maximal elevation (°)

Week 23

# July - Aug. 2014



Tromsø  
18.955°E, 69.649°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 Tromsø (TL ± 1 mn)

152 - 213

Day at anytime

152 - 213

Day at anytime

152 - 213

Day at anytime

152 - 213

Day at anytime

24:00

+0 m.

43°

24:00

+0 m.

43°

24:00

+0 m.

43°

24:00

+0 m.

43°

20:54

-85 m.

38°

20:39

-100 m.

38°

20:25

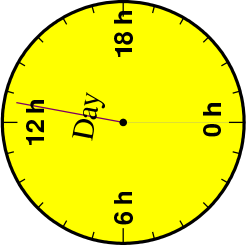
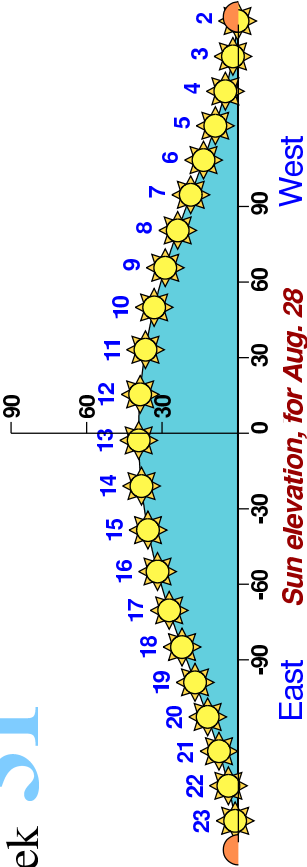
-114 m.

38°

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

Week 31

June 2014



Duration of the day, for June 23

Tromsø

18.955°E, 69.649°N

Monday 28

Tuesday 29

Wednesday 30

Thursday 31

Friday 6

Saturday 7

Sunday 8

Sunrise and Sunset at Tromsø (TL ± 1 mn)

208 - 157

01:54 - 23:49

208 - 157

02:00 - 23:39

208 - 157

02:03 - 23:30

208 - 157

02:12 - 23:22

152 - 213

Day at anytime

152 - 213

Day at anytime

152 - 213

Day at anytime

21:56

-23 m.

39°

21:39

-40 m.

39°

21:27

-52 m.

39°

21:10

-69 m.

39°

24:00

+0 m.

43°

24:00

+0 m.

43°

24:00

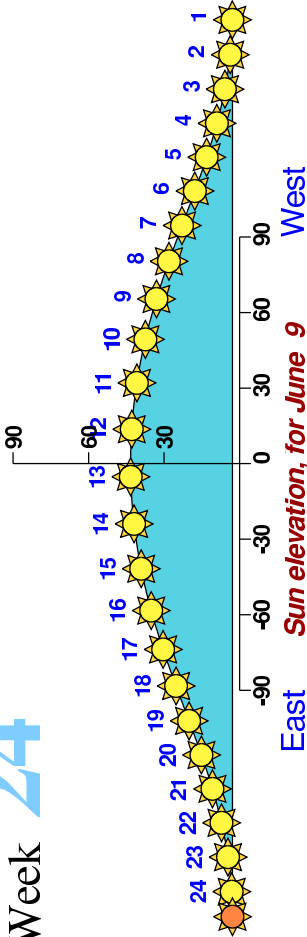
+0 m.

43°

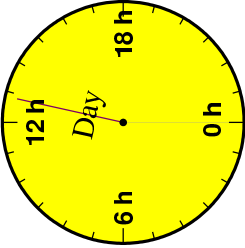
Duration of the day - Variation - Sun maximal elevation (°)

Week 24

July 2014



Tromsø  
18.955°E, 69.649°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 Tromsø (TL ± 1 mn)

159 - 206  
Day at anytime

159 - 206  
Day at anytime

159 - 206  
Day at anytime

159 - 206  
Day at anytime

201 - 164  
00:59 - 00:43

201 - 164  
01:27 - 00:15

201 - 164  
01:42 - 00:01

24:00

+0 m.

43°

24:00

+0 m.

43°

24:00

+0 m.

43°

24:00

+0 m.

44°

23:44

-16 m.

40°

22:48

-72 m.

40°

22:19

-101 m.

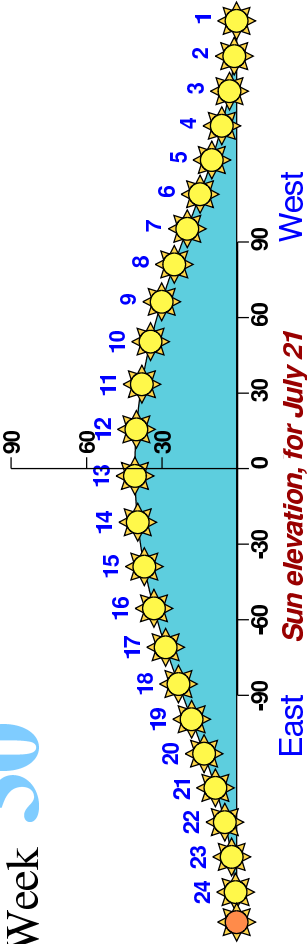
40°

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

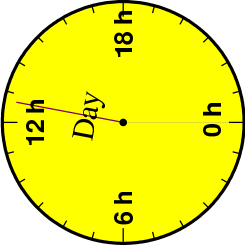


Week 30

June 2014



Tromso  
18.955°E, 69.649°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 Tromso (TL ± 1 mn)

201 - 164  
Day at anytime

201 - 164  
Day at anytime

201 - 164  
Day at anytime

201 - 164  
Day at anytime

159 - 206  
Day at anytime

159 - 206  
Day at anytime

159 - 206  
Day at anytime

24:00

+0 m.

41 °

24:00

+0 m.

41 °

24:00

+0 m.

40 °

24:00

+0 m.

40 °

24:00

+0 m.

44 °

24:00

+0 m.

44 °

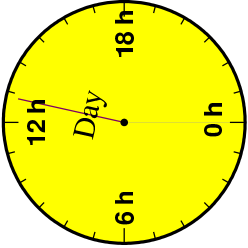
24:00

+0 m.

44 °

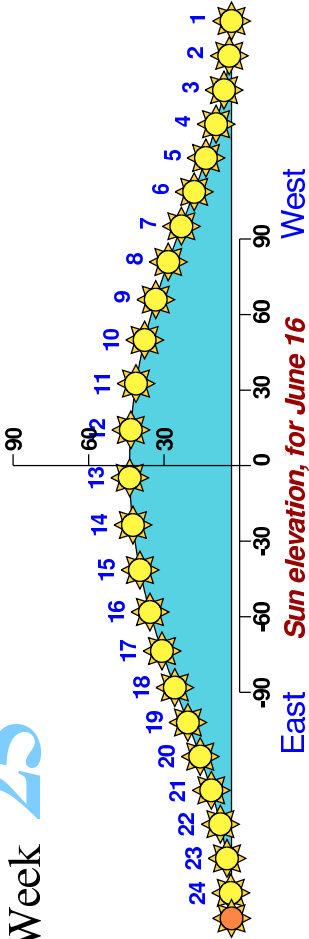
Week 25

July 2014



Tromso  
18.955°E, 69.649°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 Tromso (TL ± 1 mn)

166 - 199  
Day at anytime

24:00 +0 m. 44°

166 - 199  
Day at anytime

24:00 +0 m. 44°

166 - 199  
Day at anytime

24:00 +0 m. 44°

166 - 199  
Day at anytime

24:00 +0 m. 44°

194 - 171  
Day at anytime

24:00 +0 m. 41°

194 - 171  
Day at anytime

24:00 +0 m. 41°

194 - 171  
Day at anytime

+0 m.

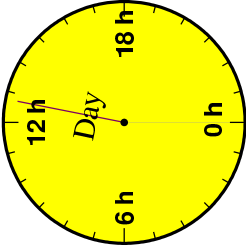
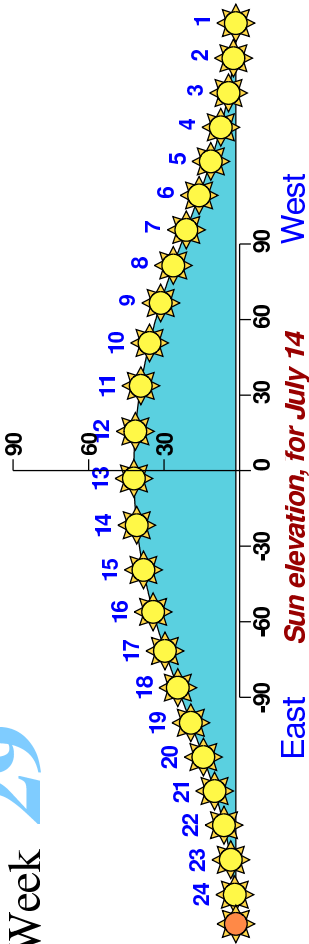
24:00

41°

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

Week 29

June 2014



Tromsø  
18.955°E, 69.649°N

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 Tromsø (TL ± 1 mn)

194 - 171  
Day at anytime

194 - 171  
Day at anytime

194 - 171  
Day at anytime

194 - 171  
Day at anytime

166 - 199  
Day at anytime

166 - 199  
Day at anytime

166 - 199  
Day at anytime

24:00

+0 m.

42°

24:00

+0 m.

42°

24:00

+0 m.

42°

24:00

+0 m.

42°

24:00

+0 m.

44°

24:00

+0 m.

44°

24:00

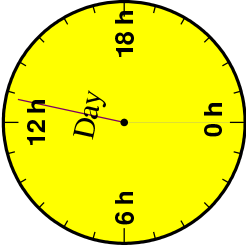
+0 m.

44°

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

Week 26

July 2014



Tromso  
18.955°E, 69.649°N

East Sun elevation, for June 23 West



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 Tromso (TL ± 1 mn)

173 - 192  
Day at anytime

24:00 +0 m. 44°

173 - 192  
Day at anytime

24:00 +0 m. 44°

173 - 192  
Day at anytime

24:00 +0 m. 44°

173 - 192  
Day at anytime

24:00 +0 m. 44°

187 - 178  
Day at anytime

24:00 +0 m. 42°

187 - 178  
Day at anytime

24:00 +0 m. 42°

187 - 178  
Day at anytime

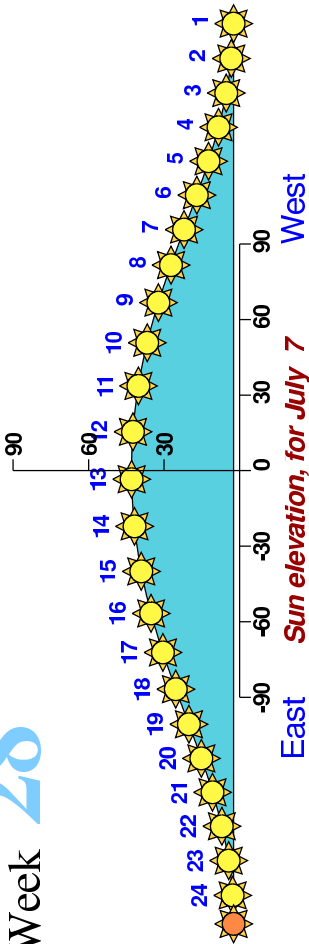
+0 m.

42°

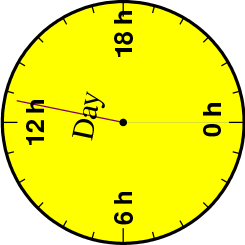
Duration of the day - Variation - Sun maximal elevation (°)

Week 28

June 2014



Tromsø  
18.955°E, 69.649°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 Tromsø (TL ± 1 mn)

187 - 178  
Day at anytime

24:00 +0 m. 43°

187 - 178  
Day at anytime

24:00 +0 m. 43°

187 - 178  
Day at anytime

24:00 +0 m. 43°

187 - 178  
Day at anytime

24:00 +0 m. 43°

173 - 192  
Day at anytime

24:00 +0 m. 44°

173 - 192  
Day at anytime

24:00 +0 m. 44°

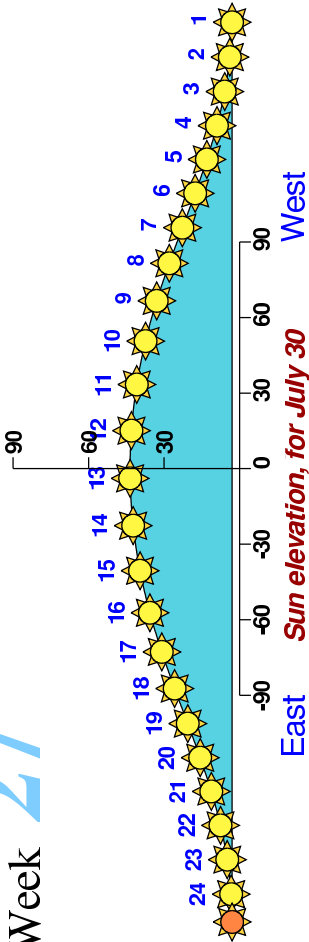
173 - 192  
Day at anytime

24:00 +0 m. 44°

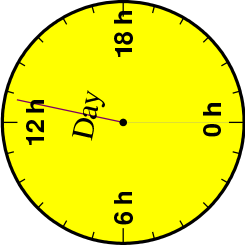
Duration of the day - Variation - Sun maximal elevation (°)

Week 27

# June - July 2014



Tromsø  
18.955°E, 69.649°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 Tromsø (TL ± 1 mn)

180 - 185  
Day at anytime

24:00 +0 m. 44°

180 - 185  
Day at anytime

24:00 +0 m. 43°

180 - 185  
Day at anytime

24:00 +0 m. 43°

180 - 185  
Day at anytime

24:00 +0 m. 43°

180 - 185  
Day at anytime

24:00 +0 m. 43°

180 - 185  
Day at anytime

24:00 +0 m. 43°

180 - 185  
Day at anytime

24:00 +0 m. 43°

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