

# TONIGHT'S SKY



November  
2018

1  
00:00:07,920 --> 00:00:10,240

Your guide to constellations,

2  
00:00:10,240 --> 00:00:14,620

deep-sky objects, planets, and events:

3  
00:00:14,620 --> 00:00:22,400

Tonight's Sky. Highlights of the November sky:

4  
00:00:42,520 --> 00:00:45,720

Saturn shines clear above the southwest

5  
00:00:45,720 --> 00:00:47,880

horizon at nightfall.

6  
00:00:47,880 --> 00:00:51,060

Watch as it shifts lower in the sky each night,

7  
00:00:51,060 --> 00:00:58,060

preparing to depart the evening sky.

8  
00:00:58,060 --> 00:01:03,900

Small telescopes show off its rings.

9  
00:01:08,980 --> 00:01:12,380

Red Mars retains its position in the south

10  
00:01:12,380 --> 00:01:19,920

as it moves into Aquarius, recedes, and dims.

11  
00:01:22,180 --> 00:01:25,860

Backyard telescopes still show a tiny disk,

12  
00:01:25,860 --> 00:01:33,220

but surface features may be difficult to resolve.

13  
00:01:43,820 --> 00:01:47,260

Some fish, a ram, and a triangle

14  
00:01:47,260 --> 00:01:52,020  
can all be found in the November night sky.

15  
00:01:52,020 --> 00:01:54,460  
Pisces, in ancient mythology,

16  
00:01:54,460 --> 00:01:59,540  
are twin fish tied together.

17  
00:01:59,540 --> 00:02:05,619  
They represent two Greek gods fleeing fire.

18  
00:02:05,620 --> 00:02:12,540  
Look for the circlets of stars high in the southern sky.

19  
00:02:15,920 --> 00:02:19,120  
Just to the east of Pisces lies Aries,

20  
00:02:19,120 --> 00:02:25,280  
the golden ram of the Greek gods.

21  
00:02:31,020 --> 00:02:35,840  
It is a dim constellation.

22  
00:02:35,840 --> 00:02:39,220  
Pisces and Aries are in the zodiac, the

23  
00:02:39,220 --> 00:02:46,120  
band of sky through which the Sun appears to travel.

24  
00:02:49,040 --> 00:02:52,900  
Triangulum, a simple geometric constellation,

25  
00:02:52,900 --> 00:02:56,120  
has been identified since ancient times.

26

00:02:56,120 --> 00:03:01,800

Look for it next to the Ram and the Fish.

27

00:03:04,520 --> 00:03:09,260

The lovely Triangulum Galaxy resides here.

28

00:03:09,260 --> 00:03:12,680

It belongs to the same cluster of galaxies that includes

29

00:03:12,680 --> 00:03:14,840

our own Milky Way.

30

00:03:14,840 --> 00:03:18,480

Also known as M33, the galaxy is about

31

00:03:18,480 --> 00:03:21,100

3 million light-years distant.

32

00:03:21,100 --> 00:03:28,800

It can be seen in a dark sky with binoculars.

33

00:03:43,600 --> 00:03:47,460

Venus pops back into the predawn sky in November,

34

00:03:47,460 --> 00:03:50,680

spending the month in the vicinity of the bright star

35

00:03:50,680 --> 00:03:59,360

Spica in Virgo, especially around mid-month.

36

00:03:59,360 --> 00:04:01,620

Modest telescopes will reveal its

37

00:04:01,620 --> 00:04:06,720

crescent moon-like phase.

38

00:04:16,660 --> 00:04:20,080

November boasts two meteor showers.

39

00:04:20,080 --> 00:04:23,160

The Taurid meteor shower, spread over weeks,

40

00:04:23,160 --> 00:04:26,920

features 5 to 10 meteors per hour on its peak night

41

00:04:26,920 --> 00:04:29,760

of November 5 to 6.

42

00:04:29,760 --> 00:04:32,320

The meteors will streak across the sky from

43

00:04:32,320 --> 00:04:34,660

the direction of Taurus the bull,

44

00:04:34,660 --> 00:04:37,580

in the eastern sky at nightfall.

45

00:04:37,580 --> 00:04:40,820

While the shower is fairly minor, it is known for

46

00:04:40,820 --> 00:04:43,820

bright fireballs, and the sky will be dark

47

00:04:43,820 --> 00:04:46,550

with the Moon out of the way.

48

00:04:46,550 --> 00:04:49,060

The Leonid meteor shower is the result of

49

00:04:49,060 --> 00:04:52,360

Earth's annual passage through the dust trails left

50

00:04:52,360 --> 00:04:54,260

by Comet Tempel-Tuttle,

51

00:04:54,260 --> 00:04:59,340

which returns to the inner solar system every 33 years.

52

00:04:59,340 --> 00:05:02,420

Look for meteors radiating from the constellation of

53

00:05:02,420 --> 00:05:05,240

Leo the lion in the evening of November

54

00:05:05,260 --> 00:05:10,560

17 and early morning of November 18.