

1  
00:00:01,899 --> 00:00:09,050  
[Music]

2  
00:00:06,019 --> 00:00:15,570  
your guide to constellations deep-sky

3  
00:00:09,050 --> 00:00:19,550  
objects planets and events tonight's sky

4  
00:00:15,570 --> 00:00:34,700  
highlights of the November sky

5  
00:00:19,550 --> 00:00:38,689  
[Music]

6  
00:00:34,700 --> 00:00:41,800  
after sunset look for Saturn low in the

7  
00:00:38,689 --> 00:00:41,799  
southwestern sky

8  
00:00:50,219 --> 00:00:56,219  
use a telescope to view the ringed

9  
00:00:52,859 --> 00:01:10,069  
planet before it slips below the horizon

10  
00:00:56,219 --> 00:01:10,069  
[Music]

11  
00:01:12,730 --> 00:01:21,100  
some fish a ram and a triangle can all

12  
00:01:17,569 --> 00:01:24,949  
be found in the November night sky

13  
00:01:21,099 --> 00:01:30,379  
Pisces in ancient mythology our twin

14  
00:01:24,950 --> 00:01:35,719  
fish tied together they represent two

15  
00:01:30,379 --> 00:01:38,209  
Greek gods fleeing fire look for the

16  
00:01:35,719 --> 00:01:48,140  
circlets of stars high in the southern

17  
00:01:38,209 --> 00:01:53,919  
sky just to the east of Pisces lies

18  
00:01:48,140 --> 00:01:53,920  
Aries the golden Ram of the Greek gods

19  
00:01:59,329 --> 00:02:09,990  
it is a dim constellation Pisces and

20  
00:02:06,180 --> 00:02:14,629  
Aries are in the zodiac the band of sky

21  
00:02:09,990 --> 00:02:14,629  
through which the Sun appears to travel

22  
00:02:18,439 --> 00:02:24,389  
Triangulum a simple geometric

23  
00:02:21,349 --> 00:02:27,180  
constellation has been identified since

24  
00:02:24,389 --> 00:02:35,699  
ancient times look for it next to the

25  
00:02:27,180 --> 00:02:39,569  
RAM and the fish the lovely Triangulum

26  
00:02:35,699 --> 00:02:42,419  
galaxy resides here it belongs to the

27  
00:02:39,569 --> 00:02:43,859  
same cluster of galaxies that includes

28  
00:02:42,419 --> 00:02:48,989  
our own Milky Way

29

00:02:43,860 --> 00:02:50,940  
also known as m33 the galaxy is about 3

30  
00:02:48,990 --> 00:02:53,700  
million light years distant

31  
00:02:50,939 --> 00:02:55,270  
it can be seen in a dark sky with

32  
00:02:53,699 --> 00:02:58,528  
binoculars

33  
00:02:55,270 --> 00:02:58,528  
[Music]

34  
00:03:01,009 --> 00:03:05,310  
[Music]

35  
00:03:09,009 --> 00:03:14,239  
reddish Mars appears in the eastern sky

36  
00:03:12,199 --> 00:03:24,299  
before dawn

37  
00:03:14,240 --> 00:03:28,980  
[Music]

38  
00:03:24,300 --> 00:03:37,200  
a telescope might reveal some bright and

39  
00:03:28,979 --> 00:03:39,989  
dark features on the planet if you have

40  
00:03:37,199 --> 00:03:42,989  
a clear view of the eastern horizon just

41  
00:03:39,990 --> 00:03:46,740  
before sunrise you might be able to spot

42  
00:03:42,990 --> 00:03:49,010  
Venus or Jupiter perhaps both during mid

43  
00:03:46,740 --> 00:03:49,010

month

44

00:03:49,629 --> 00:03:55,710  
[Music]

45

00:03:52,669 --> 00:03:59,939  
Jupiter becomes easier to find as it

46

00:03:55,710 --> 00:04:12,000  
rises higher in the sky in late November

47

00:03:59,939 --> 00:04:17,279  
[Music]

48

00:04:12,000 --> 00:04:17,279  
November boasts the Leonid meteor shower

49

00:04:18,269 --> 00:04:23,709  
this shower is the result of Earth's

50

00:04:21,279 --> 00:04:26,769  
annual passage through the dust trails

51

00:04:23,709 --> 00:04:29,620  
left by comet tempel-tuttle which

52

00:04:26,769 --> 00:04:39,759  
returns to the inner solar system every

53

00:04:29,620 --> 00:04:42,639  
33 years look for meteors in the evening

54

00:04:39,759 --> 00:04:49,959  
of November 17th and early morning of

55

00:04:42,639 --> 00:04:52,860  
November 18th the night sky is always a

56

00:04:49,959 --> 00:04:52,859  
celestial showcase

57

00:04:54,600 --> 00:04:59,210  
explore its wonders from your own

58

00:04:57,160 --> 00:05:15,670

backyard

59

00:04:59,209 --> 00:05:17,729

[Music]

60

00:05:15,670 --> 00:05:17,730

you