

1  
00:00:07,459 --> 00:00:14,580  
your guide to constellations deep-sky

2  
00:00:10,789 --> 00:00:19,368  
objects planets and events tonight's sky

3  
00:00:14,580 --> 00:00:19,368  
highlights of the September sky

4  
00:00:35,960 --> 00:00:43,960  
just after sunset Mars and Saturn appear

5  
00:00:40,100 --> 00:00:43,960  
low in the south western sky

6  
00:00:50,750 --> 00:00:57,558  
use a telescope to get a better view of

7  
00:00:53,850 --> 00:00:57,559  
the planets before they set

8  
00:01:11,840 --> 00:01:17,640  
September nights feature the wet quarter

9  
00:01:14,790 --> 00:01:22,040  
of the sky to neighboring constellations

10  
00:01:17,640 --> 00:01:22,040  
bear ancient references to water

11  
00:01:23,569 --> 00:01:28,799  
Aquarius is one of the oldest

12  
00:01:25,859 --> 00:01:31,459  
constellations recognized even by early

13  
00:01:28,799 --> 00:01:37,379  
civilizations in ancient mythologies

14  
00:01:31,459 --> 00:01:39,839  
Aquarius is the god of the waters look

15  
00:01:37,379 --> 00:01:47,519  
for the water jar a group of stars

16  
00:01:39,840 --> 00:01:50,520  
shaped like a why a rich compact cluster

17  
00:01:47,519 --> 00:01:55,049  
of stars can be seen in Aquarius known

18  
00:01:50,519 --> 00:02:01,609  
as m2 it contains about 150,000 stars

19  
00:01:55,049 --> 00:02:04,620  
located about 30 7,500 light-years away

20  
00:02:01,609 --> 00:02:07,769  
binoculars present it well but a small

21  
00:02:04,620 --> 00:02:12,050  
telescope reveals much more detail in

22  
00:02:07,769 --> 00:02:12,049  
the clusters compact Center

23  
00:02:19,959 --> 00:02:28,789  
nearby lies the great constellation

24  
00:02:22,938 --> 00:02:31,188  
capricornus known in mythology as the

25  
00:02:28,789 --> 00:02:34,729  
water goat it represents a creature that

26  
00:02:31,188 --> 00:02:41,598  
fed and watered the infant Zeus ruler of

27  
00:02:34,729 --> 00:02:47,598  
the Greek gods al jetty is the brightest

28  
00:02:41,598 --> 00:02:51,530  
star in capricornus it's visible in

29

00:02:47,598 --> 00:02:54,919  
binoculars as an elongated star this odd

30  
00:02:51,530 --> 00:02:57,680  
shape is due to a visual trick from our

31  
00:02:54,919 --> 00:03:01,869  
distant vantage point two unrelated

32  
00:02:57,680 --> 00:03:01,870  
stars appear to be close together

33  
00:03:03,789 --> 00:03:11,449  
capricornus also hosts a dense cluster

34  
00:03:07,098 --> 00:03:16,030  
of stars m30 a small telescope easily

35  
00:03:11,449 --> 00:03:16,030  
resolves individual stars in the cluster

36  
00:03:28,318 --> 00:03:30,378  
you

37  
00:03:35,199 --> 00:03:41,679  
majestic Jupiter graces the early

38  
00:03:38,000 --> 00:03:41,680  
morning sky before sunrise

39  
00:03:46,068 --> 00:03:55,509  
a telescope reveals the planets dark

40  
00:03:52,759 --> 00:03:55,509  
bands

41  
00:04:05,289 --> 00:04:07,348  
you

42  
00:04:09,520 --> 00:04:15,460  
this month's full moon is known as the

43  
00:04:12,250 --> 00:04:19,738

Harvest Moon it rises in the east before

44

00:04:15,460 --> 00:04:19,739

the end of Twilight on sep tember eight

45

00:04:25,410 --> 00:04:31,170

the added bright moonlight lengthens the

46

00:04:28,290 --> 00:04:38,010

evening to give farmers extra time to

47

00:04:31,170 --> 00:04:44,670

harvest their crops the night sky is

48

00:04:38,009 --> 00:04:48,769

always a celestial showcase explore its

49

00:04:44,670 --> 00:04:48,770

wonders from your own backyard

50

00:05:05,790 --> 00:05:07,850

you