

1
00:00:01,899 --> 00:00:08,900
[Music]

2
00:00:05,839 --> 00:00:15,030
your guide to constellations deep-sky

3
00:00:08,900 --> 00:00:19,550
objects planets and events tonight's sky

4
00:00:15,029 --> 00:00:32,619
highlights of the September sky

5
00:00:19,550 --> 00:00:32,620
[Music]

6
00:00:33,500 --> 00:00:39,179
early in the month Jupiter appears low

7
00:00:36,649 --> 00:00:42,269
in the West right after sunset

8
00:00:39,179 --> 00:00:42,269
[Music]

9
00:00:44,140 --> 00:00:49,390
try to catch a quick view of Jupiter

10
00:00:46,810 --> 00:00:50,570
through a telescope before it dips below

11
00:00:49,390 --> 00:00:56,310
the horizon

12
00:00:50,570 --> 00:00:58,369
[Music]

13
00:00:56,310 --> 00:00:58,370
you

14
00:01:00,310 --> 00:01:06,049
after the sky darkens turn your

15
00:01:03,380 --> 00:01:06,799
attention to Saturn in the southwestern

16
00:01:06,049 --> 00:01:10,069
sky

17
00:01:06,799 --> 00:01:10,069
[Music]

18
00:01:12,540 --> 00:01:18,320
[Music]

19
00:01:15,230 --> 00:01:20,420
a telescope will provide a wonderful

20
00:01:18,319 --> 00:01:21,879
look at the planets signature feature

21
00:01:20,420 --> 00:01:34,120
its rings

22
00:01:21,879 --> 00:01:37,099
[Music]

23
00:01:34,120 --> 00:01:40,400
September nights feature the wet quarter

24
00:01:37,099 --> 00:01:45,339
of the sky to neighboring constellations

25
00:01:40,400 --> 00:01:45,340
bare ancient references to water

26
00:01:46,000 --> 00:01:51,859
Aquarius is one of the oldest

27
00:01:48,560 --> 00:01:55,480
constellations recognized even by early

28
00:01:51,859 --> 00:02:00,530
civilizations in ancient mythologies

29

00:01:55,480 --> 00:02:02,870
Aquarius is the god of the waters look

30
00:02:00,530 --> 00:02:10,939
for the water jar a group of stars

31
00:02:02,870 --> 00:02:14,689
shaped like a why a rich compact cluster

32
00:02:10,939 --> 00:02:19,729
of stars can be seen in Aquarius known

33
00:02:14,689 --> 00:02:25,090
as m2 it contains about 150,000 stars

34
00:02:19,729 --> 00:02:28,339
located about 30 7,500 light-years away

35
00:02:25,090 --> 00:02:31,340
binoculars present it well but a small

36
00:02:28,340 --> 00:02:35,620
telescope reveals much more detail in

37
00:02:31,340 --> 00:02:35,620
the clusters compact centre

38
00:02:42,830 --> 00:02:51,620
nearby lies the great constellation

39
00:02:46,419 --> 00:02:54,109
Capricornus known in mythology as the

40
00:02:51,620 --> 00:02:57,980
water goat it represents a creature that

41
00:02:54,110 --> 00:03:00,700
fed and watered the infant Zeus ruler of

42
00:02:57,979 --> 00:03:05,229
the Greek gods

43
00:03:00,699 --> 00:03:10,849

all jetty is the brightest star in

44

00:03:05,229 --> 00:03:15,949

Capricornus it's visible in binoculars

45

00:03:10,849 --> 00:03:19,519

as an elongated star this odd shape is

46

00:03:15,949 --> 00:03:23,329

due to a visual trick from our distant

47

00:03:19,520 --> 00:03:28,070

vantage point two unrelated stars appear

48

00:03:23,330 --> 00:03:32,680

to be close together Capricornus also

49

00:03:28,069 --> 00:03:35,810

hosts a dense cluster of stars m30 a

50

00:03:32,680 --> 00:03:38,830

small telescope easily resolves

51

00:03:35,810 --> 00:03:43,308

individual stars in the cluster

52

00:03:38,830 --> 00:03:43,309

[Music]

53

00:03:49,629 --> 00:03:53,879

[Music]

54

00:03:55,770 --> 00:04:04,020

Venus shines brightly in the eastern sky

55

00:03:58,860 --> 00:04:06,600

before sunrise by mid month Mercury and

56

00:04:04,020 --> 00:04:09,480

Mars appear between Venus and the

57

00:04:06,599 --> 00:04:12,750

horizon but they could be difficult to

58
00:04:09,479 --> 00:04:15,599
spot in the morning Twilight mercury

59
00:04:12,750 --> 00:04:18,899
disappears from view in late September

60
00:04:15,599 --> 00:04:23,480
but Mars remains in the sky and moves

61
00:04:18,899 --> 00:04:23,479
closer to Venus as the month progresses

62
00:04:23,750 --> 00:04:29,060
the night sky is always a celestial

63
00:04:27,629 --> 00:04:31,620
showcase

64
00:04:29,060 --> 00:04:33,139
explore its wonders from your own

65
00:04:31,620 --> 00:04:46,989
backyard

66
00:04:33,139 --> 00:04:46,988
[Music]

67
00:04:48,670 --> 00:04:53,759
you

68
00:04:49,470 --> 00:04:53,759
[Music]