

1
00:00:01,899 --> 00:00:06,380
[Music]

2
00:00:06,410 --> 00:00:15,330
your guide to constellations deep-sky

3
00:00:09,650 --> 00:00:18,730
objects planets and events tonight's sky

4
00:00:15,330 --> 00:00:39,558
highlights of the September sky

5
00:00:18,730 --> 00:00:43,109
[Music]

6
00:00:39,558 --> 00:00:45,839
Venus blazing in the western sky around

7
00:00:43,109 --> 00:00:48,320
sunset for much of the year boughs out

8
00:00:45,840 --> 00:00:51,120
by month's end

9
00:00:48,320 --> 00:00:54,119
Jupiter not far from Venus in the

10
00:00:51,119 --> 00:01:00,268
southwestern sky moves lower as the

11
00:00:54,119 --> 00:01:03,328
month progresses a small telescope

12
00:01:00,268 --> 00:01:05,908
reveals large-scale atmospheric features

13
00:01:03,329 --> 00:01:06,799
of Jupiter and the sunlit clouds of

14
00:01:05,909 --> 00:01:10,069
Venus

15
00:01:06,799 --> 00:01:10,069
[Music]

16
00:01:12,540 --> 00:01:16,849
[Music]

17
00:01:18,188 --> 00:01:25,919
Saturn and Mars shine in the southern

18
00:01:21,129 --> 00:01:29,228
sky against the stars of Sagittarius the

19
00:01:25,920 --> 00:01:31,829
waxing moon passes each in turn on the

20
00:01:29,228 --> 00:01:37,200
17th and 19th of the month

21
00:01:31,829 --> 00:01:37,200
[Music]

22
00:01:37,209 --> 00:01:43,509
the rusty surface of Mars and iconic

23
00:01:40,510 --> 00:01:45,340
rings of Saturn are easily visible even

24
00:01:43,510 --> 00:01:54,849
in small telescopes

25
00:01:45,340 --> 00:01:54,849
[Music]

26
00:02:00,840 --> 00:02:07,750
September nights feature the wet quarter

27
00:02:03,879 --> 00:02:12,179
of the sky to neighboring constellations

28
00:02:07,750 --> 00:02:12,179
bare ancient references to water

29

00:02:12,389 --> 00:02:17,859

Aquarius is one of the oldest

30

00:02:14,830 --> 00:02:22,920

constellations recognized even by early

31

00:02:17,860 --> 00:02:27,490

civilizations in ancient mythologies

32

00:02:22,919 --> 00:02:29,708

Aquarius is the god of the waters look

33

00:02:27,490 --> 00:02:37,480

for the water jar a group of stars

34

00:02:29,709 --> 00:02:41,319

shaped like a why a rich compact cluster

35

00:02:37,479 --> 00:02:45,988

of stars can be seen in Aquarius known

36

00:02:41,319 --> 00:02:51,269

as m2 it contains about 150,000 stars

37

00:02:45,989 --> 00:02:54,520

located about 30 7,500 light-years away

38

00:02:51,270 --> 00:02:57,370

binoculars present it well but a small

39

00:02:54,520 --> 00:03:00,980

telescope reveals much more detail in

40

00:02:57,370 --> 00:03:05,319

the clusters compact centre

41

00:03:00,979 --> 00:03:05,319

[Music]

42

00:03:08,250 --> 00:03:13,189

[Music]

43

00:03:09,740 --> 00:03:18,000

nearby lies the great constellation

44

00:03:13,189 --> 00:03:20,340

Capricornus known in mythology as the

45

00:03:18,000 --> 00:03:23,939

water goat it represents a creature that

46

00:03:20,340 --> 00:03:26,990

fed and watered the infant Zeus ruler of

47

00:03:23,939 --> 00:03:26,990

the Greek gods

48

00:03:30,259 --> 00:03:37,889

all jetties is the brightest star in

49

00:03:34,370 --> 00:03:42,719

Capricornus it's visible in binoculars

50

00:03:37,889 --> 00:03:46,079

as an elongated star this odd shape is

51

00:03:42,719 --> 00:03:49,889

due to a visual trick from our distant

52

00:03:46,080 --> 00:03:54,600

vantage point two unrelated stars appear

53

00:03:49,889 --> 00:03:59,089

to be close together Capricornus also

54

00:03:54,599 --> 00:04:02,069

hosts a dense cluster of stars m30 a

55

00:03:59,090 --> 00:04:04,450

small telescope easily resolves

56

00:04:02,069 --> 00:04:17,728

individual stars in the cluster

57

00:04:04,449 --> 00:04:17,728

[Music]

58
00:04:23,689 --> 00:04:29,339
Comet Jaco beanie sinner which became

59
00:04:26,939 --> 00:04:32,009
visible last month should reach its

60
00:04:29,339 --> 00:04:34,409
brightest in September as it passes

61
00:04:32,009 --> 00:04:38,519
through the constellation of Oregon and

62
00:04:34,410 --> 00:04:41,310
between Gemini and Orion it may be

63
00:04:38,519 --> 00:04:44,370
barely visible to the naked eye but

64
00:04:41,310 --> 00:04:45,750
possible to see with binoculars look for

65
00:04:44,370 --> 00:04:53,699
the comet in the east

66
00:04:45,750 --> 00:04:56,480
after midnight the night sky is always a

67
00:04:53,699 --> 00:04:56,479
celestial showcase

68
00:04:57,800 --> 00:05:01,160
explore its wonders from your own

69
00:05:00,149 --> 00:05:16,319
backyard

70
00:05:01,160 --> 00:05:16,320
[Music]

71
00:05:18,848 --> 00:05:20,908
you

