

1
00:00:07,759 --> 00:00:15,359
your guide to constellations deep-sky

2
00:00:11,150 --> 00:00:20,300
objects planets and events tonight's sky

3
00:00:15,359 --> 00:00:20,300
highlights of the September sky

4
00:00:37,310 --> 00:00:44,609
if you have a clear view to the West you

5
00:00:41,280 --> 00:00:49,219
might be able to spot Venus hanging low

6
00:00:44,609 --> 00:00:49,219
over the horizon right after sunset

7
00:00:52,399 --> 00:00:57,649
catch a quick look through a telescope

8
00:00:54,840 --> 00:00:57,650
if you can

9
00:01:06,329 --> 00:01:14,200
after nightfall look for Mars and Saturn

10
00:01:09,939 --> 00:01:16,599
in the southwestern sky the two planets

11
00:01:14,200 --> 00:01:19,540
will move farther apart as the month

12
00:01:16,599 --> 00:01:27,009
progresses with Saturn setting well

13
00:01:19,540 --> 00:01:29,650
before Mars in late September use a

14
00:01:27,010 --> 00:01:31,868
telescope to get a better view of the

15
00:01:29,650 --> 00:01:34,140
planets before they dip below the

16
00:01:31,868 --> 00:01:34,140
horizon

17
00:01:47,438 --> 00:01:53,929
September nights feature the wet quarter

18
00:01:50,450 --> 00:01:58,450
of the sky to neighboring constellations

19
00:01:53,930 --> 00:01:58,450
bare ancient references to water

20
00:01:58,959 --> 00:02:04,669
Aquarius is one of the oldest

21
00:02:01,459 --> 00:02:09,310
constellations recognized even by early

22
00:02:04,670 --> 00:02:13,969
civilizations in ancient mythologies

23
00:02:09,310 --> 00:02:16,519
Aquarius is the god of the waters look

24
00:02:13,969 --> 00:02:24,110
for the water jar a group of stars

25
00:02:16,519 --> 00:02:27,890
shaped like a why a rich compact cluster

26
00:02:24,110 --> 00:02:32,780
of stars can be seen in Aquarius known

27
00:02:27,889 --> 00:02:38,318
as m2 it contains about 150,000 stars

28
00:02:32,780 --> 00:02:41,689
located about 30 7,500 light-years away

29

00:02:38,318 --> 00:02:44,839
binoculars present it well but a small

30
00:02:41,689 --> 00:02:49,150
telescope reveals much more detail in

31
00:02:44,840 --> 00:02:49,150
the clusters compact centre

32
00:02:56,560 --> 00:03:04,789
nearby lies the great constellation

33
00:03:00,489 --> 00:03:07,519
Capricornus known in mythology as the

34
00:03:04,789 --> 00:03:11,628
water goat it represents a creature that

35
00:03:07,519 --> 00:03:14,140
fed and watered the infant Zeus ruler of

36
00:03:11,628 --> 00:03:18,250
the Greek gods

37
00:03:14,139 --> 00:03:24,138
all jetty is the brightest star in

38
00:03:18,250 --> 00:03:29,150
Capricornus it's visible in binoculars

39
00:03:24,139 --> 00:03:32,420
has an elongated star this odd shape is

40
00:03:29,150 --> 00:03:36,408
due to a visual trick from our distant

41
00:03:32,419 --> 00:03:41,388
vantage point two unrelated stars appear

42
00:03:36,408 --> 00:03:46,419
to be close together Capricornus also

43
00:03:41,389 --> 00:03:49,400

hosts a dense cluster of stars m30 a

44

00:03:46,419 --> 00:03:53,619
small telescope easily resolves

45

00:03:49,400 --> 00:03:53,620
individual stars in the cluster

46

00:04:15,729 --> 00:04:22,269
late in the month tim mercury makes a

47

00:04:19,298 --> 00:04:25,049
brief appearance in the eastern sky just

48

00:04:22,269 --> 00:04:25,049
before sunrise

49

00:04:27,939 --> 00:04:35,879
if you spot it a Metellus copic mercury

50

00:04:31,779 --> 00:04:35,879
to get a slightly better look

51

00:04:46,870 --> 00:04:53,180
on September 1st sky watchers in parts

52

00:04:51,019 --> 00:04:56,299
of Africa will see the moon pass

53

00:04:53,180 --> 00:05:00,199
directly in front of the Sun creating an

54

00:04:56,300 --> 00:05:03,020
annular solar eclipse during an annular

55

00:05:00,199 --> 00:05:05,240
solar eclipse the moon is farther away

56

00:05:03,019 --> 00:05:06,349
from Earth than during a total solar

57

00:05:05,240 --> 00:05:09,350
eclipse

58

00:05:06,350 --> 00:05:15,379
so it appears smaller and doesn't

59

00:05:09,350 --> 00:05:17,960
completely cover the Sun a partial solar

60

00:05:15,379 --> 00:05:25,969
eclipse will be visible from most of the

61

00:05:17,959 --> 00:05:28,389
African continent the night sky is

62

00:05:25,970 --> 00:05:30,710
always a celestial showcase

63

00:05:28,389 --> 00:05:32,889
explore its wonders from your own

64

00:05:30,709 --> 00:05:32,889
backyard

65

00:05:46,750 --> 00:05:48,810
you