

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

2
00:00:06,799 --> 00:00:15,330
your guide to constellations deep-sky

3
00:00:10,009 --> 00:00:18,339
objects planets and events tonight's sky

4
00:00:15,330 --> 00:00:39,950
highlights of the May sky

5
00:00:18,339 --> 00:00:44,670
[Music]

6
00:00:39,950 --> 00:00:52,859
at nightfall Venus hangs like a blazing

7
00:00:44,670 --> 00:00:55,379
diamond in the western sky a backyard

8
00:00:52,859 --> 00:00:57,960
telescope reveals only its sunlight

9
00:00:55,378 --> 00:00:58,839
reflecting clouds which hide its rocky

10
00:00:57,960 --> 00:01:05,448
surface

11
00:00:58,840 --> 00:01:05,448
[Music]

12
00:01:07,750 --> 00:01:18,069
a second blazing planet hangs over the

13
00:01:14,590 --> 00:01:22,120
southeastern horizon Jupiter reaches

14
00:01:18,069 --> 00:01:25,509
opposition on May 8th it lies opposite

15
00:01:22,120 --> 00:01:33,909
the Sun in our sky rises at sunset and

16
00:01:25,510 --> 00:01:37,210
is visible all night a small telescope

17
00:01:33,909 --> 00:01:51,969
shows its cloud bands and its four large

18
00:01:37,209 --> 00:01:54,609
moons looking toward the south we've

19
00:01:51,969 --> 00:01:58,239
turned away from the crowded center of

20
00:01:54,609 --> 00:02:01,259
our Milky Way galaxy thus we see farther

21
00:01:58,239 --> 00:02:04,629
into the universe the large

22
00:02:01,259 --> 00:02:09,879
constellation Virgo fills the southern

23
00:02:04,629 --> 00:02:12,239
sky in the late evening one of these a

24
00:02:09,879 --> 00:02:15,579
diol constellations of ancient times

25
00:02:12,239 --> 00:02:16,539
Virgo honors the life-giving virtues of

26
00:02:15,580 --> 00:02:21,080
women

27
00:02:16,539 --> 00:02:24,289
[Music]

28
00:02:21,080 --> 00:02:27,830
using a pair of binoculars visit the

29

00:02:24,289 --> 00:02:31,429
virgo cluster of galaxies these tiny

30
00:02:27,830 --> 00:02:32,690
smudges of light are galaxies far away

31
00:02:31,430 --> 00:02:36,439
from our own Milky Way

32
00:02:32,689 --> 00:02:45,829
each aglow with the light of billions of

33
00:02:36,439 --> 00:02:49,099
stars the sombrero galaxy m-104 lies in

34
00:02:45,830 --> 00:02:52,100
the southern part of Virgo it's dark

35
00:02:49,099 --> 00:02:54,359
dust Lane makes it look like a large hat

36
00:02:52,099 --> 00:02:58,528
hence its name

37
00:02:54,360 --> 00:02:58,529
[Music]

38
00:03:00,979 --> 00:03:07,619
[Music]

39
00:03:04,560 --> 00:03:12,780
to smaller constellations lie above

40
00:03:07,620 --> 00:03:15,629
Virgo Coma Berenices honors a queen who

41
00:03:12,780 --> 00:03:19,969
gave her long hair to the gods to ensure

42
00:03:15,629 --> 00:03:19,969
her husband's safe return from war

43
00:03:20,289 --> 00:03:27,828

[Music]

44

00:03:29,689 --> 00:03:38,180

m64 a spiral galaxy can be found tangled

45

00:03:34,650 --> 00:03:38,180

in Berenices hair

46

00:03:38,830 --> 00:03:43,319

[Music]

47

00:03:49,629 --> 00:04:00,709

[Music]

48

00:04:03,849 --> 00:04:10,019

Janey's Vinod acai represents the

49

00:04:06,580 --> 00:04:10,020

hunting dogs of the gods

50

00:04:10,259 --> 00:04:17,728

[Music]

51

00:04:19,189 --> 00:04:25,939

the brightest star in Keeney's Vinod si

52

00:04:22,100 --> 00:04:28,740

is cor caroli the heart of Charles named

53

00:04:25,939 --> 00:04:37,430

for King Charles the first of England

54

00:04:28,740 --> 00:04:37,430

[Music]

55

00:04:39,750 --> 00:04:47,769

m51 in canis vinod acai is known as the

56

00:04:44,110 --> 00:04:52,979

Whirlpool Galaxy it is one of the most

57

00:04:47,769 --> 00:04:52,978

beautiful face on spirals in the sky

58
00:04:56,699 --> 00:05:16,449
[Music]

59
00:05:13,269 --> 00:05:19,829
by month's end the planet Saturn is

60
00:05:16,449 --> 00:05:23,319
rising in the southeast around midnight

61
00:05:19,829 --> 00:05:27,599
Mars growing ever brighter as the year

62
00:05:23,319 --> 00:05:27,599
progresses follows not far behind

63
00:05:28,980 --> 00:05:36,129
Saturn's iconic rings are visible even

64
00:05:32,379 --> 00:05:39,519
in small telescopes as Mars gets closer

65
00:05:36,129 --> 00:05:42,420
to earth large-scale surface details may

66
00:05:39,519 --> 00:05:42,419
become visible

67
00:05:43,269 --> 00:05:49,449
[Music]

68
00:05:52,319 --> 00:05:56,129
just before sunrise during the first

69
00:05:55,199 --> 00:05:59,759
part of the month

70
00:05:56,129 --> 00:06:02,759
diminutive mercury may be seen just

71
00:05:59,759 --> 00:06:10,230
above the eastern horizon

72
00:06:02,759 --> 00:06:13,529
[Music]

73
00:06:10,230 --> 00:06:16,319
because it is so small and so close to

74
00:06:13,529 --> 00:06:19,109
the Rising Sun spotting mercury becomes

75
00:06:16,319 --> 00:06:30,849
more difficult as the month progresses

76
00:06:19,110 --> 00:06:30,850
[Music]

77
00:06:31,089 --> 00:06:41,810
the annual ADA acwarren meteor shower

78
00:06:34,370 --> 00:06:45,259
returns this month on the night of May

79
00:06:41,810 --> 00:06:46,759
6th to 7th expect to see up to 10

80
00:06:45,259 --> 00:06:49,099
meteors per hour

81
00:06:46,759 --> 00:06:55,189
look for them shooting from the east

82
00:06:49,100 --> 00:06:57,260
after midnight the night sky is always a

83
00:06:55,189 --> 00:06:59,649
celestial showcase

84
00:06:57,259 --> 00:07:02,029
[Music]

85
00:06:59,649 --> 00:07:02,989
explore its wonders from your own

86

00:07:02,029 --> 00:07:20,239
backyard

87
00:07:02,990 --> 00:07:20,240
[Music]

88
00:07:21,910 --> 00:07:23,970
you