

1
00:00:01,899 --> 00:00:09,019
[Music]

2
00:00:05,960 --> 00:00:15,298
your guide to constellations deep-sky

3
00:00:09,019 --> 00:00:18,329
objects planets and events tonight's sky

4
00:00:15,298 --> 00:00:34,480
highlights of the June sky

5
00:00:18,329 --> 00:00:37,328
[Music]

6
00:00:34,479 --> 00:00:39,199
jupiter shines high in the southern sky

7
00:00:37,329 --> 00:00:42,270
after nightfall

8
00:00:39,200 --> 00:00:42,270
[Music]

9
00:00:44,439 --> 00:00:51,019
a telescope brings out the planet dark

10
00:00:50,170 --> 00:00:59,280
cloud bands

11
00:00:51,020 --> 00:00:59,280
[Music]

12
00:01:00,649 --> 00:01:06,789
you'll find Saturn low in the

13
00:01:03,719 --> 00:01:10,069
southeastern sky on these June evenings

14
00:01:06,790 --> 00:01:10,069
[Music]

15
00:01:13,670 --> 00:01:19,810
the ringed planet will remain visible

16
00:01:16,650 --> 00:01:34,060
all night long this month

17
00:01:19,810 --> 00:01:36,320
[Music]

18
00:01:34,060 --> 00:01:39,530
turn your gaze upward

19
00:01:36,319 --> 00:01:43,750
to find four distinctive constellations

20
00:01:39,530 --> 00:01:49,510
[Music]

21
00:01:43,750 --> 00:01:49,510
high overhead lies Bootes the herdsman

22
00:01:49,659 --> 00:01:55,189
find it by looking for its prominent

23
00:01:52,549 --> 00:01:58,299
kite shape which was noted by many

24
00:01:55,189 --> 00:01:58,299
ancient cultures

25
00:02:01,200 --> 00:02:06,790
[Music]

26
00:02:03,810 --> 00:02:12,310
Arcturus is the fourth brightest star in

27
00:02:06,790 --> 00:02:18,969
the night sky the star epsilon botas is

28
00:02:12,310 --> 00:02:22,210
also known as eyes are in binoculars

29

00:02:18,969 --> 00:02:26,259
eyes are resolved into one of the finest

30
00:02:22,210 --> 00:02:30,099
double stars in the sky the color

31
00:02:26,259 --> 00:02:47,269
contrast between the stars is striking

32
00:02:30,099 --> 00:02:50,759
[Music]

33
00:02:47,270 --> 00:02:59,100
just to the left of Bootes lies the

34
00:02:50,759 --> 00:03:02,129
northern crown Corona borealis this

35
00:02:59,099 --> 00:03:05,009
lovely circuit of stars represents the

36
00:03:02,129 --> 00:03:09,389
wedding crown of Ariadne the daughter of

37
00:03:05,009 --> 00:03:12,870
King Minos of Crete while the stars are

38
00:03:09,389 --> 00:03:13,579
not very bright their pattern is easy to

39
00:03:12,870 --> 00:03:33,259
pick out

40
00:03:13,580 --> 00:03:33,259
[Music]

41
00:03:34,780 --> 00:03:41,289
the mythical strongman Hercules is also

42
00:03:38,840 --> 00:03:46,580
found high in the summer night sky

43
00:03:41,289 --> 00:03:51,680

wielding his mighty weapons the

44

00:03:46,580 --> 00:03:55,430

constellation is rather dim look for its

45

00:03:51,680 --> 00:03:58,879

lopsided square of four stars called the

46

00:03:55,430 --> 00:04:01,520

Keystone the Keystone in Hercules is the

47

00:03:58,879 --> 00:04:03,979

key to finding one of the brightest

48

00:04:01,520 --> 00:04:08,500

globular star clusters in the summer

49

00:04:03,979 --> 00:04:12,739

night sky the wonderful Hercules cluster

50

00:04:08,500 --> 00:04:16,670

also known as m13 contains about a

51

00:04:12,740 --> 00:04:19,549

million stars outside the Keystone lies

52

00:04:16,670 --> 00:04:23,810

another magnificent globular cluster of

53

00:04:19,548 --> 00:04:26,319

stars m92 globular clusters are

54

00:04:23,810 --> 00:04:28,740

collections of closely packed

55

00:04:26,319 --> 00:04:46,988

gravitationally bound stars

56

00:04:28,740 --> 00:04:46,989

[Music]

57

00:04:51,740 --> 00:04:59,490

Draco the dragon winds his way through

58
00:04:55,680 --> 00:05:03,180
the northern sky the dragon's head is a

59
00:04:59,490 --> 00:05:05,629
skewed square of stars look for the

60
00:05:03,180 --> 00:05:09,030
dimmiest of the corner stars in

61
00:05:05,629 --> 00:05:11,550
binoculars it resolves into two stars

62
00:05:09,029 --> 00:05:12,589
which look like a bright pair of

63
00:05:11,550 --> 00:05:31,060
headlights

64
00:05:12,589 --> 00:05:34,038
[Music]

65
00:05:31,060 --> 00:05:43,069
brilliant Venus dominates the eastern

66
00:05:34,038 --> 00:05:44,930
sky before dawn get a closer look

67
00:05:43,069 --> 00:05:49,449
through a telescope

68
00:05:44,930 --> 00:05:49,449
[Music]

69
00:05:50,680 --> 00:05:56,709
the night sky is always a celestial

70
00:05:54,560 --> 00:05:56,709
showcase

71
00:05:58,509 --> 00:06:02,759
explore its wonders from your own

72
00:06:01,069 --> 00:06:19,469
backyard

73
00:06:02,759 --> 00:06:21,529
[Music]

74
00:06:19,470 --> 00:06:21,530
you