

1
00:00:00,190 --> 00:00:06,660
[Music]

2
00:00:06,799 --> 00:00:15,210
your guide to constellations deep-sky

3
00:00:09,830 --> 00:00:18,429
objects planets and events tonight's sky

4
00:00:15,210 --> 00:00:24,899
highlights of the January sky

5
00:00:18,429 --> 00:00:24,899
[Music]

6
00:00:35,229 --> 00:00:40,959
after the sunsets look in the

7
00:00:37,929 --> 00:00:45,990
southwestern sky for bright Venus and

8
00:00:40,960 --> 00:00:45,990
for the fainter reddish Mars above it

9
00:00:49,520 --> 00:00:56,480
[Music]

10
00:00:53,439 --> 00:00:58,539
the two planets will edge closer toward

11
00:00:56,479 --> 00:01:08,028
each other as the month goes on

12
00:00:58,539 --> 00:01:08,028
[Music]

13
00:01:14,739 --> 00:01:23,019
the winter sky is filled with brilliant

14
00:01:17,618 --> 00:01:25,478
stars an ancient constellation Auriga

15
00:01:23,019 --> 00:01:28,199
was pictured as a goat herder by the

16
00:01:25,478 --> 00:01:28,200
Greeks and Romans

17
00:01:28,799 --> 00:01:38,890
Araya is a beautiful circlet of jeweled

18
00:01:31,868 --> 00:01:42,009
stars gracing the sky overhead capella

19
00:01:38,890 --> 00:01:48,368
the sixth brightest star in the sky is a

20
00:01:42,009 --> 00:01:51,640
double star the two stars are yellow

21
00:01:48,368 --> 00:01:54,609
stars like our own Sun but they are

22
00:01:51,640 --> 00:01:56,469
about ten times larger and fifty and

23
00:01:54,609 --> 00:02:00,150
eighty times brighter

24
00:01:56,469 --> 00:02:00,150
[Music]

25
00:02:08,520 --> 00:02:18,010
Nero Riga is the large constellation

26
00:02:11,830 --> 00:02:20,980
Taurus the Bull in Greek legend this

27
00:02:18,009 --> 00:02:23,889
group of stars represented Zeus in the

28
00:02:20,979 --> 00:02:24,579
disguise of a white bull with golden

29

00:02:23,889 --> 00:02:30,378
horns

30
00:02:24,580 --> 00:02:30,379
[Music]

31
00:02:31,400 --> 00:02:38,770
his eye is the orange Aldebaran a red

32
00:02:35,180 --> 00:02:41,110
giant star nearing the end of its life

33
00:02:38,770 --> 00:02:44,930
[Music]

34
00:02:41,110 --> 00:02:48,250
the bull's v-shaped head is created by

35
00:02:44,930 --> 00:02:51,060
the Hyades a beautiful cluster of stars

36
00:02:48,250 --> 00:02:55,750
easily seen with the naked eye

37
00:02:51,060 --> 00:02:59,150
[Music]

38
00:02:55,750 --> 00:03:02,750
the Pleiades star cluster lies near the

39
00:02:59,150 --> 00:03:05,180
head of the bull large and bright this

40
00:03:02,750 --> 00:03:08,180
star cluster is the best known in the

41
00:03:05,180 --> 00:03:16,099
sky and is often called the Seven

42
00:03:08,180 --> 00:03:19,480
Sisters the unaided eye can see just six

43
00:03:16,098 --> 00:03:27,560

or seven stars but the Pleiades cluster

44

00:03:19,479 --> 00:03:32,899

contains over 250 binoculars showcase

45

00:03:27,560 --> 00:03:36,909

the cluster at its best the stars in

46

00:03:32,900 --> 00:03:39,799

this stellar swarm are hot and young

47

00:03:36,909 --> 00:03:42,710

they are passing through a dusty cloud

48

00:03:39,799 --> 00:03:56,290

that reflects their blue light

49

00:03:42,710 --> 00:03:56,290

[Music]

50

00:03:58,259 --> 00:04:03,969

jupiter makes an appearance in the

51

00:04:00,520 --> 00:04:07,469

eastern sky after midnight alongside the

52

00:04:03,969 --> 00:04:07,469

bright star spica

53

00:04:16,379 --> 00:04:23,500

use a telescope to spy the giant planets

54

00:04:20,279 --> 00:04:29,978

cloud bands and a few of its large moons

55

00:04:23,500 --> 00:04:33,529

[Music]

56

00:04:29,978 --> 00:04:36,438

just before dawn search for Saturn and

57

00:04:33,529 --> 00:04:37,199

Mercury rising above the southeastern

58
00:04:36,439 --> 00:04:44,959
horizon

59
00:04:37,199 --> 00:04:44,959
[Music]

60
00:04:48,649 --> 00:04:56,359
a small telescope will reveal Saturn's

61
00:04:52,129 --> 00:04:58,569
rings a larger telescope might also show

62
00:04:56,360 --> 00:05:12,360
what phase mercury is in

63
00:04:58,569 --> 00:05:12,360
[Music]

64
00:05:13,439 --> 00:05:20,718
the Quadrantid meteor shower peaks on

65
00:05:16,199 --> 00:05:24,059
the night spanning January 3rd and 4th

66
00:05:20,718 --> 00:05:32,158
sky watchers who brave the cold night

67
00:05:24,059 --> 00:05:35,749
spot up to 40 meteors per hour the night

68
00:05:32,158 --> 00:05:38,308
sky is always a celestial showcase

69
00:05:35,749 --> 00:05:39,310
explore its wonders from your own

70
00:05:38,309 --> 00:05:44,779
backyard

71
00:05:39,310 --> 00:05:44,778
[Music]

72
00:05:46,269 --> 00:05:48,329
you

73
00:05:55,920 --> 00:05:57,980
you

74
00:05:58,189 --> 00:06:02,209
you

75
00:05:59,189 --> 00:06:02,209
[Music]