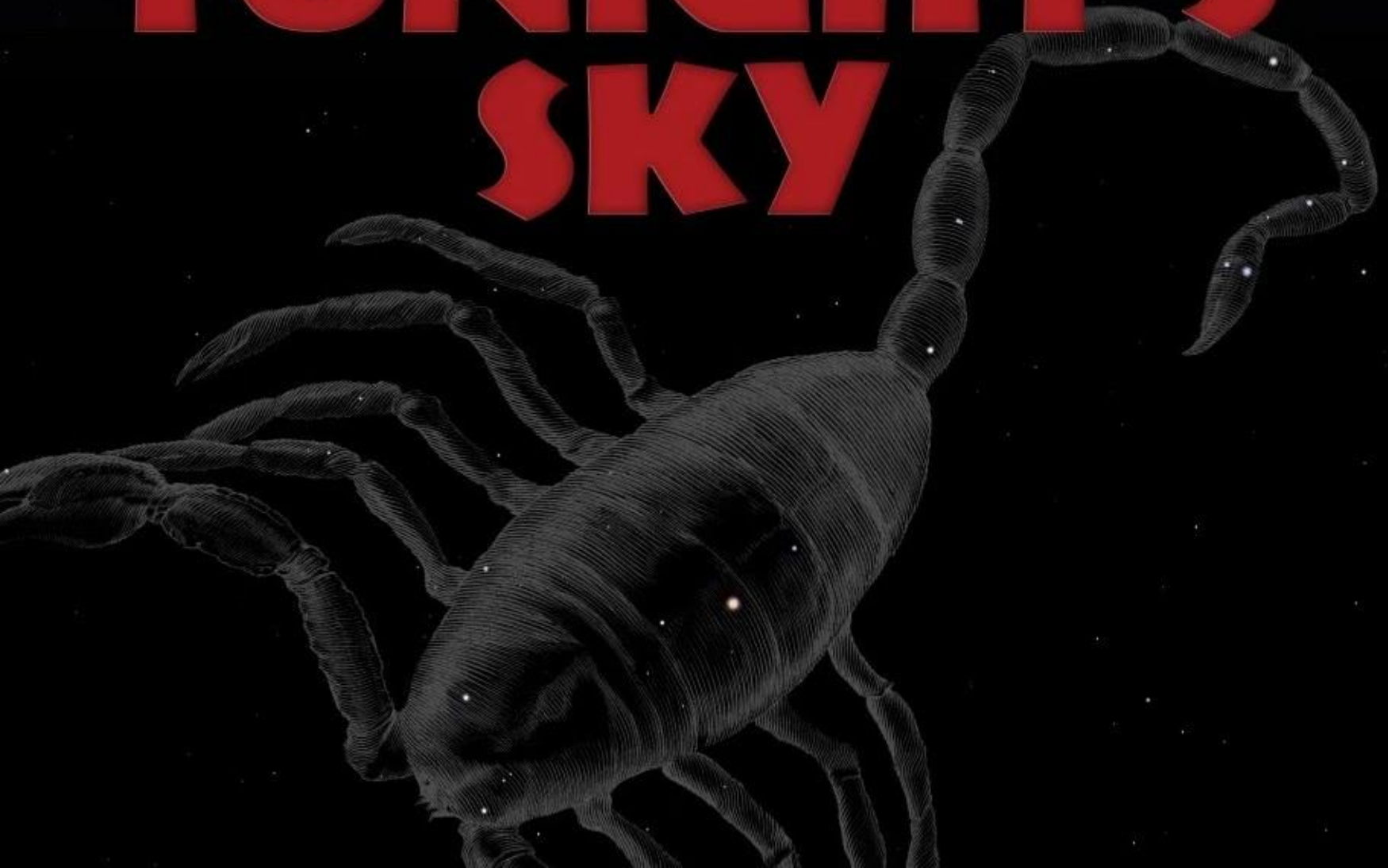
TONIGHT'S SKY



July
2014

1
00:00:14,419 --> 00:00:10,720
your guide to constellations deep-sky

2
00:00:36,569 --> 00:00:14,429
objects planets and events tonight's sky

3
00:00:42,639 --> 00:00:40,330
as the sky grows darker Saturn and Mars

4
00:00:51,889 --> 00:00:42,649
begin to slip closer to the western

5
00:01:16,920 --> 00:00:54,330
glimpse them through a telescope before

6
00:01:27,060 --> 00:01:19,350
the summer night sky is filled with a

7
00:01:29,640 --> 00:01:27,070
treasure chest of bright jewels Scorpius

8
00:01:32,280 --> 00:01:29,650
is a striking constellation one of the

9
00:01:36,030 --> 00:01:32,290
few that distinctly resembles the object

10
00:01:39,510 --> 00:01:36,040
after which it was named the scorpion is

11
00:01:42,890 --> 00:01:39,520
easy to trace in the sky its head curved

12
00:01:46,410 --> 00:01:42,900
tail and venomous stinger are prominent

13
00:01:49,469 --> 00:01:46,420

at the Scorpions heart lies a reddish

14
00:01:54,090 --> 00:01:49,479
star its color closely resembles that of

15
00:01:56,790 --> 00:01:54,100
Mars known to the Greeks as Ares ancient

16
00:02:00,240 --> 00:01:56,800
Greek stargazers contemplating these two

17
00:02:07,380 --> 00:02:00,250
crimson objects named the star Antares

18
00:02:09,419 --> 00:02:07,390
which means rival of Ares a prominent

19
00:02:12,990 --> 00:02:09,429
lovely globular cluster in small

20
00:02:17,820 --> 00:02:13,000
telescopes m4 lies just to the right of

21
00:02:20,430 --> 00:02:17,830
Antares in Scorpius globular clusters

22
00:02:23,070 --> 00:02:20,440
are collections of hundreds of thousands

23
00:02:48,640 --> 00:02:23,080
of closely packed and gravitationally

24
00:02:53,830 --> 00:02:51,650
the center of our galaxy lies in the

25
00:02:59,060 --> 00:02:53,840
direction of the great constellation

26
00:03:02,420 --> 00:02:59,070
Sagittarius the Archer this area of the

27
00:03:08,350 --> 00:03:02,430
sky overflows with stars globular star

28
00:03:13,910 --> 00:03:11,270
look for Sagittarius by finding the

29
00:03:17,570 --> 00:03:13,920
group of stars commonly known as the

30
00:03:20,960 --> 00:03:17,580
teapot the handle top and spout are easy

31
00:03:25,300 --> 00:03:20,970
to find under dark skies the Milky Way

32
00:03:28,520 --> 00:03:25,310
seems to rise out of the teapots spout

33
00:03:31,460 --> 00:03:28,530
many deep sky targets reside in this

34
00:03:33,620 --> 00:03:31,470
area of the summer night sky a quick

35
00:03:38,930 --> 00:03:33,630
glance with binoculars reveals some

36
00:03:41,930 --> 00:03:38,940
spectacular objects the Lagoon nebulas

37
00:03:44,600 --> 00:03:41,940
gas and dust is brilliantly illuminated

38
00:03:55,620 --> 00:03:44,610

by the energy of the hot young stars

39
00:04:01,020 --> 00:03:58,740
in the three lobed tri Fed nebula dark

40
00:04:13,000 --> 00:04:01,030
dust lanes appear edged against the

41
00:04:19,240 --> 00:04:16,240
the Omega nebula glows brightly but we

42
00:04:24,430 --> 00:04:19,250
cannot see its hottest stars embedded

43
00:04:32,490 --> 00:04:24,440
deep inside infrared telescopes peering

44
00:04:37,810 --> 00:04:35,080
m22 one of the brightest globular

45
00:04:40,390 --> 00:04:37,820
clusters in the sky is visible to the

46
00:04:44,170 --> 00:04:40,400
naked eye it is a relatively nearby

47
00:05:02,900 --> 00:04:44,180
globular cluster only about 10,000 light

48
00:05:08,370 --> 00:05:05,939
before sunrise Venus appears in the

49
00:05:12,689 --> 00:05:08,380
morning rising grandly out of the

50
00:05:14,760 --> 00:05:12,699
eastern horizon elusive mercury joins

51
00:05:17,490 --> 00:05:14,770
Venus during the middle of the month

52
00:05:35,409 --> 00:05:17,500
making a brief appearance just before

53
00:05:41,600 --> 00:05:38,689
the annual Delta a queried meteor shower

54
00:05:45,020 --> 00:05:41,610
peaks on the night of July 28th to the

55
00:05:48,140 --> 00:05:45,030
29th watch for meteors radiating from

56
00:05:51,170 --> 00:05:48,150
the southeast after midnight expect to

57
00:05:58,040 --> 00:05:51,180
see up to 20 small yellowish meteors per

58
00:06:01,750 --> 00:05:58,050
hour the night sky is always a celestial