

TONIGHT'S SKY



February
2015

1
00:00:14,419 --> 00:00:10,549
your guide to constellations deep-sky

2
00:00:38,270 --> 00:00:14,429
objects planets and events tonight's sky

3
00:00:45,049 --> 00:00:41,420
Venus and Mars pair up in the western

4
00:00:51,200 --> 00:00:45,059
sky after sunset on these cold February

5
00:01:08,820 --> 00:00:54,570
use a telescope to get a better look at

6
00:01:24,330 --> 00:01:12,100
Mars and Venus will form a tight trio

7
00:01:39,820 --> 00:01:30,280
as the sky darkens look for Jupiter

8
00:01:45,100 --> 00:01:42,640
the giant planet will remain a great

9
00:01:59,550 --> 00:01:45,110
target for telescopes throughout the

10
00:02:05,590 --> 00:02:02,680
the winter night sky filled with

11
00:02:14,940 --> 00:02:05,600
brilliant stars presents one of the best

12
00:02:24,630 --> 00:02:17,760
orion the great hunter of Greek

13
00:02:27,000 --> 00:02:24,640

mythology dominates the winter sky this

14

00:02:30,449 --> 00:02:27,010

constellation is among the easiest to

15

00:02:35,490 --> 00:02:30,459

recognize it is full of young stars

16

00:02:38,520 --> 00:02:35,500

dying stars and many nebulae Betelgeuse

17

00:02:42,750 --> 00:02:38,530

one of Orion's shoulders is a red

18

00:02:45,930 --> 00:02:42,760

supergiant star about 650 times bigger

19

00:02:51,350 --> 00:02:45,940

than the Sun it shines with the

20

00:02:57,030 --> 00:02:54,319

Betelgeuse is near the end of its life

21

00:02:59,759 --> 00:02:57,040

with the fuel at the Stars core

22

00:03:02,729 --> 00:02:59,769

practically depleted the core has

23

00:03:08,600 --> 00:03:02,739

contracted and heated pausing the outer

24

00:03:15,900 --> 00:03:12,539

Rigel one of Orion's knees is a triple

25

00:03:20,460 --> 00:03:15,910

star system made up of two smaller stars

26

00:03:23,870 --> 00:03:20,470

orbiting a blue supergiant Rigel blue

27

00:03:27,629 --> 00:03:23,880

supergiant star has a short life span

28

00:03:30,449 --> 00:03:27,639

blue supergiant stars are much hotter

29

00:03:36,629 --> 00:03:30,459

than our Sun and use up their fuel

30

00:03:40,500 --> 00:03:36,639

quickly Orion's belt is easy to spot it

31

00:03:46,050 --> 00:03:40,510

is made up of three stars Alma tack on

32

00:03:48,990 --> 00:03:46,060

the lamb and Mintaka from the left side

33

00:03:53,009 --> 00:03:49,000

of Orion's belt look down to the great

34

00:03:55,259 --> 00:03:53,019

Orion Nebula although barely visible to

35

00:03:58,370 --> 00:03:55,269

the naked eye it is the brightest

36

00:04:02,789 --> 00:03:58,380

diffuse gas cloud in the night sky

37

00:04:05,460 --> 00:04:02,799

nebula is Latin for cloud a small

38

00:04:12,560 --> 00:04:05,470

telescope unveils the details and

39

00:04:19,920 --> 00:04:16,080

embedded inside the Orion Nebula is the

40

00:04:22,290 --> 00:04:19,930

trapezium a group of hot young stars so

41

00:04:40,770 --> 00:04:22,300

brilliant they caused the surrounding

42

00:04:46,410 --> 00:04:44,220

Canis Major the Great dog is the

43

00:04:51,150 --> 00:04:46,420

faithful companion who follows in

44

00:04:53,940 --> 00:04:51,160

Orion's footsteps Canis Major is

45

00:04:57,840 --> 00:04:53,950

dominated by the most brilliant star in

46

00:05:00,960 --> 00:04:57,850

the night sky serious serious is

47

00:05:03,810 --> 00:05:00,970

actually a double system containing a

48

00:05:08,040 --> 00:05:03,820

bright star and a much smaller and

49

00:05:11,129 --> 00:05:08,050

fainter companion it is a mere 8.6

50

00:05:13,920 --> 00:05:11,139

light-years away scanning with

51
00:05:17,330 --> 00:05:13,930
binoculars just below serious will

52
00:05:22,100 --> 00:05:17,340
reveal a lovely cluster of stars called

53
00:05:26,670 --> 00:05:22,110
m41 it contains about 100 stars

54
00:05:30,300 --> 00:05:26,680
including several red giants stars in

55
00:05:49,689 --> 00:05:30,310
clusters like m41 were born together and

56
00:05:55,430 --> 00:05:52,850
saturn rises well after midnight and

57
00:06:12,920 --> 00:05:55,440
climbs higher during the pre-dawn hours

58
00:06:20,219 --> 00:06:16,740
the night sky is always a celestial