

Saturn



Mars



1  
00:00:05,490 --> 00:00:01,760

[Music]

2  
00:00:07,980 --> 00:00:05,500

what's up for July how about some moons

3  
00:00:11,160 --> 00:00:07,990

with those giant planets Mars after

4  
00:00:13,890 --> 00:00:11,170

midnight and are the stars of Mars the

5  
00:00:16,589 --> 00:00:13,900

same as ours in the first week of July

6  
00:00:17,339 --> 00:00:16,599

enjoy Jupiter Saturn and the moon late

7  
00:00:19,499 --> 00:00:17,349

into the night

8  
00:00:21,450 --> 00:00:19,509

the trio rises in the couple of hours

9  
00:00:23,609 --> 00:00:21,460

after sunset and is well placed for

10  
00:00:26,130 --> 00:00:23,619

viewing between about 10 p.m. and 2 a.m.

11  
00:00:28,830 --> 00:00:26,140

they form their closest grouping over

12  
00:00:30,900 --> 00:00:28,840

the July 4th weekend and as you're

13  
00:00:32,880 --> 00:00:30,910

marveling at this celestial celebration

14

00:00:36,270 --> 00:00:32,890

remember you're not just looking at one

15

00:00:37,919 --> 00:00:36,280

moon but well over a hundred at present

16

00:00:40,829 --> 00:00:37,929

count Jupiter and Saturn have a hundred

17

00:00:42,630 --> 00:00:40,839

sixty-one moons between them you can see

18

00:00:44,700 --> 00:00:42,640

Jupiter's four largest moons with a

19

00:00:46,380 --> 00:00:44,710

basic pair of binoculars and at least

20

00:00:49,079 --> 00:00:46,390

one of Saturn's moons with a basic

21

00:00:51,119 --> 00:00:49,089

telescope up close these moons are

22

00:00:55,500 --> 00:00:51,129

richly varied worlds in their own right

23

00:00:58,439 --> 00:00:55,510

with ice-covered oceans volcanoes chasms

24

00:01:02,399 --> 00:00:58,449

and one with an atmosphere and seas of

25

00:01:04,259 --> 00:01:02,409

liquid hydrocarbons NASA's Mars 2020

26  
00:01:06,660 --> 00:01:04,269  
mission is planned to launch this summer

27  
00:01:08,670 --> 00:01:06,670  
sending the perseverance Rover and the

28  
00:01:10,800 --> 00:01:08,680  
first ever Mars helicopter to the Red

29  
00:01:13,230 --> 00:01:10,810  
Planet so if you're a Mars exploration

30  
00:01:16,560 --> 00:01:13,240  
fan this month is a great time to spot

31  
00:01:18,719 --> 00:01:16,570  
Mars yourself in July Mars rises just

32  
00:01:21,090 --> 00:01:18,729  
before midnight and is visible until

33  
00:01:22,980 --> 00:01:21,100  
dawn its rising earlier now than it was

34  
00:01:24,719 --> 00:01:22,990  
a few months ago making it easier for

35  
00:01:27,780 --> 00:01:24,729  
those who were more night-owls than

36  
00:01:29,760 --> 00:01:27,790  
early birds just look low in the east

37  
00:01:32,609 --> 00:01:29,770  
after midnight for a relatively bright

38  
00:01:35,160 --> 00:01:32,619

object with a distinct reddish hue and

39

00:01:39,149 --> 00:01:35,170

for an extra treat take a look on July

40

00:01:40,980 --> 00:01:39,159

11th to find the moon very close by you

41

00:01:42,810 --> 00:01:40,990

might not have considered it before but

42

00:01:45,240 --> 00:01:42,820

would it surprise you that the night sky

43

00:01:47,639 --> 00:01:45,250

on Mars is quite similar to Earth's in

44

00:01:49,620 --> 00:01:47,649

many ways sure there's sometimes a lot

45

00:01:51,450 --> 00:01:49,630

of dust in the thin air and there are

46

00:01:54,719 --> 00:01:51,460

too little moons rather than one big one

47

00:01:56,880 --> 00:01:54,729

but the stars we see from Earth are so

48

00:01:58,980 --> 00:01:56,890

very distant that they appear the same

49

00:02:00,450 --> 00:01:58,990

as seen from Mars and you'd have no

50

00:02:02,580 --> 00:02:00,460

trouble finding your favorite

51  
00:02:05,639 --> 00:02:02,590  
constellations and asterisms like the

52  
00:02:08,040 --> 00:02:05,649  
Big Dipper plus with no humans there yet

53  
00:02:09,450 --> 00:02:08,050  
there's absolutely zero light pollution

54  
00:02:10,460 --> 00:02:09,460  
to interfere with your view of the Milky

55  
00:02:12,050 --> 00:02:10,470  
Way

56  
00:02:14,870 --> 00:02:12,060  
one big difference would be the

57  
00:02:16,730 --> 00:02:14,880  
positions of the planets in the sky and

58  
00:02:18,740 --> 00:02:16,740  
instead of a ruddy red planet there

59  
00:02:21,620 --> 00:02:18,750  
would be a dazzling bluish white one to

60  
00:02:23,450 --> 00:02:21,630  
try and spot while stargazing to see

61  
00:02:25,580 --> 00:02:23,460  
noticeable changes in the positions of

62  
00:02:28,940 --> 00:02:25,590  
the stars you'd have to travel much

63  
00:02:31,780 --> 00:02:28,950

farther than Mars Jupiter or even Pluto

64

00:02:33,680 --> 00:02:31,790

in fact NASA's new Horizons spacecraft

65

00:02:36,140 --> 00:02:33,690

speeding through the outskirts of the

66

00:02:37,640 --> 00:02:36,150

solar system has only seen the slightest

67

00:02:38,510 --> 00:02:37,650

shift in the positions of a couple of

68

00:02:40,760 --> 00:02:38,520

nearby stars

69

00:02:42,700 --> 00:02:40,770

despite being more than four billion

70

00:02:48,640 --> 00:02:42,710

miles away from Earth

71

00:02:53,030 --> 00:02:51,050

you can catch up on all of NASA's

72

00:02:56,180 --> 00:02:53,040

missions to explore the solar system and

73

00:02:57,560 --> 00:02:56,190

beyond at [nasa.gov](http://nasa.gov) I'm Preston dykes