



clear atmosphere Mars

1  
00:00:00,220 --> 00:00:03,039

[Music]

2  
00:00:11,150 --> 00:00:06,860

what's up for July Mars is closest to

3  
00:00:13,009 --> 00:00:11,160

Earth since 2003 hello and welcome I'm

4  
00:00:14,570 --> 00:00:13,019

Jane Houston Jones from NASA's Jet

5  
00:00:18,170 --> 00:00:14,580

Propulsion Laboratory in Pasadena

6  
00:00:20,390 --> 00:00:18,180

California if you've been sky watching

7  
00:00:23,120 --> 00:00:20,400

for 15 years or more then you'll

8  
00:00:25,250 --> 00:00:23,130

remember August 2003 when Mars

9  
00:00:28,400 --> 00:00:25,260

approached closer to Earth than it had

10  
00:00:31,009 --> 00:00:28,410

for thousands of years it was a very

11  
00:00:32,930 --> 00:00:31,019

small percentage closer but not so much

12  
00:00:35,959 --> 00:00:32,940

that it was as big as the moon as some

13  
00:00:38,389 --> 00:00:35,969

claimed Mars was an awesome sight to the

14

00:00:40,069 --> 00:00:38,399

unaided eye in binoculars where some

15

00:00:43,729 --> 00:00:40,079

large features could be seen and

16

00:00:45,770 --> 00:00:43,739

especially through telescopes astronomy

17

00:00:47,240 --> 00:00:45,780

clubs everywhere had long lines of

18

00:00:49,369 --> 00:00:47,250

people looking through their telescopes

19

00:00:51,920 --> 00:00:49,379

at the Red Planet and they will again

20

00:00:54,410 --> 00:00:51,930

this month if you're new to stargazing

21

00:00:57,380 --> 00:00:54,420

this month and next will be a great time

22

00:00:59,090 --> 00:00:57,390

to check out Mars through a telescope

23

00:01:00,799 --> 00:00:59,100

you should be able to make out some of

24

00:01:04,369 --> 00:01:00,809

the light and dark features and

25

00:01:06,560 --> 00:01:04,379

sometimes polar ice right now though a

26

00:01:09,260 --> 00:01:06,570

huge Martian dust storm is obscuring

27

00:01:13,280 --> 00:01:09,270

many features and less planetary detail

28

00:01:15,830 --> 00:01:13,290

is visible July 27th is Mars opposition

29

00:01:18,770 --> 00:01:15,840

when Mars Earth and the Sun all line up

30

00:01:21,859 --> 00:01:18,780

with Earth directly in the middle a few

31

00:01:24,440 --> 00:01:21,869

days later on July 31st is Mars closest

32

00:01:26,240 --> 00:01:24,450

approach that's when Mars and Earth are

33

00:01:28,670 --> 00:01:26,250

nearest to each other in their orbits

34

00:01:30,890 --> 00:01:28,680

around the Sun although there will be a

35

00:01:33,440 --> 00:01:30,900

lot of news focusing on one of the other

36

00:01:36,590 --> 00:01:33,450

of these two dates Mars will be visible

37

00:01:39,380 --> 00:01:36,600

for many months by the end of July Mars

38

00:01:41,240 --> 00:01:39,390

will be visible at sunset but the best

39

00:01:43,940 --> 00:01:41,250

time to view it will be several hours

40

00:01:45,050 --> 00:01:43,950

after sunset when Mars will appear

41

00:01:47,749 --> 00:01:45,060

higher in the sky

42

00:01:50,060 --> 00:01:47,759

Mars will still be visible after July

43

00:01:52,700 --> 00:01:50,070

and August but each month it will shrink

44

00:01:54,620 --> 00:01:52,710

in apparent size as it travels farther

45

00:01:59,179 --> 00:01:54,630

from Earth in its orbit around the Sun

46

00:02:02,120 --> 00:01:59,189

on July 27th a total lunar eclipse will

47

00:02:05,270 --> 00:02:02,130

be visible in Australia Asia Africa

48

00:02:07,280 --> 00:02:05,280

Europe and South America for those

49

00:02:09,889 --> 00:02:07,290

viewers Mars will be right next to the

50

00:02:13,420 --> 00:02:09,899

eclipsing moon next month will feature

51  
00:02:15,880 --> 00:02:13,430  
August summer Perseids it's not too soon

52  
00:02:18,759 --> 00:02:15,890  
a dark sky getaway for the most popular

53  
00:02:21,580 --> 00:02:18,769  
meteor shower of the year you can catch

54  
00:02:26,470 --> 00:02:21,590  
up on NASA's missions to Mars and all of

55  
00:02:26,979 --> 00:02:26,480  
NASA's missions at WWF that's all for

56  
00:02:28,680 --> 00:02:26,989  
this month