



♃ Pleiades

• Mars

Facing East
Midnight

1
00:00:07,540 --> 00:00:04,730
what's up for August if you've never

2
00:00:10,640 --> 00:00:07,550
seen a meteor shower now is your chance

3
00:00:13,490 --> 00:00:10,650
hello and welcome I'm Jane Houston Jones

4
00:00:16,340 --> 00:00:13,500
with NASA's Jet Propulsion Laboratory in

5
00:00:18,140 --> 00:00:16,350
Pasadena California have you ever

6
00:00:21,200 --> 00:00:18,150
wondered what makes these cosmic

7
00:00:24,290 --> 00:00:21,210
fireworks meteor showers are just

8
00:00:26,779 --> 00:00:24,300
colorful debris from a passing comet or

9
00:00:30,169 --> 00:00:26,789
occasionally the debris from a broken up

10
00:00:33,500 --> 00:00:30,179
asteroid when a comet nears the Sun it's

11
00:00:36,580 --> 00:00:33,510
icy surface heats up this causes clouds

12
00:00:39,110 --> 00:00:36,590
of gas dust and dirt to be released

13
00:00:42,530 --> 00:00:39,120

forming a tale of debris that can

14

00:00:45,440 --> 00:00:42,540

stretch for millions of miles as Earth

15

00:00:47,180 --> 00:00:45,450

passes near this dusty tale some of the

16

00:00:50,330 --> 00:00:47,190

small dust particles hit our atmosphere

17

00:00:53,330 --> 00:00:50,340

they burn up and create great celestial

18

00:00:56,330 --> 00:00:53,340

fireworks we can all enjoy NASA

19

00:00:58,729 --> 00:00:56,340

generates meteor shower forecasts to

20

00:01:00,740 --> 00:00:58,739

prevent potential hazards to spacecraft

21

00:01:03,650 --> 00:01:00,750

that are launching and orbiting Earth

22

00:01:06,160 --> 00:01:03,660

NASA also monitors these showers to

23

00:01:08,810 --> 00:01:06,170

check on the accuracy of the forecasts

24

00:01:11,660 --> 00:01:08,820

this month you can get excellent views

25

00:01:14,149 --> 00:01:11,670

of the perseid meteor shower you won't

26
00:01:16,370 --> 00:01:14,159
need a telescope or binoculars in fact

27
00:01:19,550 --> 00:01:16,380
meteor showers are best seen with the

28
00:01:21,590 --> 00:01:19,560
unaided eye you'll see some Perseids all

29
00:01:24,320 --> 00:01:21,600
month long both before and after

30
00:01:26,660 --> 00:01:24,330
midnight but the real fireworks will

31
00:01:29,149 --> 00:01:26,670
appear in the wee hours of Monday August

32
00:01:31,819 --> 00:01:29,159
thirteenth between two and four a.m.

33
00:01:34,010 --> 00:01:31,829
local time you may see up to 60 meteors

34
00:01:36,250 --> 00:01:34,020
per hour you'll see more if you can get

35
00:01:38,930 --> 00:01:36,260
away from the city lights

36
00:01:41,149 --> 00:01:38,940
meteor showers are best seen in the

37
00:01:43,340 --> 00:01:41,159
hours starting after midnight that's

38
00:01:45,410 --> 00:01:43,350

when earth is facing the direction where

39

00:01:49,760 --> 00:01:45,420

the dust particles are colliding with

40

00:01:52,430 --> 00:01:49,770

our atmosphere as a bonus for staying up

41

00:01:56,120 --> 00:01:52,440

late you'll get a great view of Mars in

42

00:01:58,219 --> 00:01:56,130

the eastern sky it won't look really big

43

00:02:01,100 --> 00:01:58,229

or bright you'll have to wait a few

44

00:02:03,590 --> 00:02:01,110

months for that for information about

45

00:02:05,480 --> 00:02:03,600

this month's lunar eclipse plus some

46

00:02:09,979 --> 00:02:05,490

activities for teachers and parents

47

00:02:13,460 --> 00:02:09,989

alike visit education JPL nasa gov and

48

00:02:16,150 --> 00:02:13,470

click on the what's up button you can

49

00:02:20,120 --> 00:02:16,160

learn about all of NASA's missions at