



Persid Meteor Shower

1
00:00:07,030 --> 00:00:04,630
what's up for august the perseid meteor

2
00:00:09,190 --> 00:00:07,040
shower hello and welcome i'm jane

3
00:00:12,549 --> 00:00:09,200
houston jones at nasa's jet propulsion

4
00:00:14,870 --> 00:00:12,559
laboratory in pasadena california

5
00:00:16,790 --> 00:00:14,880
if you've never seen a meteor shower

6
00:00:18,390 --> 00:00:16,800
this month's perseids are a perfect

7
00:00:20,710 --> 00:00:18,400
introduction

8
00:00:23,429 --> 00:00:20,720
plan a summer getaway on thursday night

9
00:00:26,390 --> 00:00:23,439
august 12th you'll begin to see meteors

10
00:00:28,230 --> 00:00:26,400
by about 11 pm but the rates increase

11
00:00:30,390 --> 00:00:28,240
closer to dawn

12
00:00:32,709 --> 00:00:30,400
the perseid meteor shower is named after

13
00:00:35,030 --> 00:00:32,719

the constellation perseus and the

14

00:00:38,790 --> 00:00:35,040

meteors appear to originate near this

15

00:00:40,709 --> 00:00:38,800

constellation in the northeast sky

16

00:00:42,950 --> 00:00:40,719

this year's meteor shower happens on a

17

00:00:46,470 --> 00:00:42,960

moonless night so you'll be able to see

18

00:00:48,549 --> 00:00:46,480

more of the fast bright meteors

19

00:00:50,950 --> 00:00:48,559

meteor showers are the debris of a

20

00:00:53,590 --> 00:00:50,960

passing comet or sometimes the debris

21

00:00:55,830 --> 00:00:53,600

from a fragmented asteroid

22

00:00:57,670 --> 00:00:55,840

comets originally formed in the cold

23

00:01:00,229 --> 00:00:57,680

outer solar system

24

00:01:02,950 --> 00:01:00,239

while most of the rocky asteroids formed

25

00:01:05,990 --> 00:01:02,960

in the warmer inner solar system between

26

00:01:08,469 --> 00:01:06,000

the orbits of mars and jupiter

27

00:01:10,149 --> 00:01:08,479

when a comet nears the sun its icy

28

00:01:12,390 --> 00:01:10,159

surface heats up

29

00:01:14,710 --> 00:01:12,400

this causes clouds of gas

30

00:01:16,630 --> 00:01:14,720

dirt and dust to be released forming a

31

00:01:18,710 --> 00:01:16,640

tail of debris that can stretch for

32

00:01:21,429 --> 00:01:18,720

millions of miles

33

00:01:24,789 --> 00:01:21,439

as earth passes near this dusty tail

34

00:01:26,870 --> 00:01:24,799

some of the particles hit our atmosphere

35

00:01:28,870 --> 00:01:26,880

they burn up and we see the result as

36

00:01:31,429 --> 00:01:28,880

meteors

37

00:01:33,270 --> 00:01:31,439

nasa generates meteor shower forecasts

38

00:01:35,190 --> 00:01:33,280

to prevent potential hazards to

39

00:01:37,590 --> 00:01:35,200

spacecraft that are launching and

40

00:01:40,390 --> 00:01:37,600

orbiting earth

41

00:01:43,270 --> 00:01:40,400

you'll see some perseids all month long

42

00:01:45,190 --> 00:01:43,280

before and after midnight but the best

43

00:01:50,149 --> 00:01:45,200

fireworks display will be in the wee

44

00:01:55,510 --> 00:01:52,469

the european space agency's comet

45

00:01:57,910 --> 00:01:55,520

mission rosetta flew by asteroid lutecia

46

00:01:59,670 --> 00:01:57,920

last month and returned beautiful images

47

00:02:01,590 --> 00:01:59,680

of this battered world

48

00:02:04,550 --> 00:02:01,600

now rosetta's on its way to send a

49

00:02:07,670 --> 00:02:04,560

lander to a comet

50

00:02:10,389 --> 00:02:07,680

nasa's deep impact epoxy spacecraft is

51
00:02:12,869 --> 00:02:10,399
on an extended mission to study

52
00:02:15,589 --> 00:02:12,879
and search for planets orbiting distant

53
00:02:21,589 --> 00:02:17,990
but first in early november this year it

54
00:02:24,869 --> 00:02:21,599
will fly by comet hartley too

55
00:02:27,990 --> 00:02:24,879
nasa's stardust next mission will fly by

56
00:02:30,390 --> 00:02:28,000
comet temple 1 in 2011

57
00:02:33,190 --> 00:02:30,400
and the dawn mission arrives at asteroid

58
00:02:38,309 --> 00:02:33,200
vesta in 2011

59
00:02:42,949 --> 00:02:40,630
despite that recurring email hoax about

60
00:02:45,910 --> 00:02:42,959
mars being big and bright this month it

61
00:02:50,229 --> 00:02:45,920
appears as a faint reddish object near

62
00:02:52,390 --> 00:02:50,239
brighter venus and saturn just at sunset

63
00:02:55,110 --> 00:02:52,400

jupiter shines as a brilliant beacon

64

00:02:56,949 --> 00:02:55,120

nearly overhead before midnight

65

00:02:59,990 --> 00:02:56,959

through a telescope you might be able to

66

00:03:02,149 --> 00:03:00,000

see nearby uranus

67

00:03:05,750 --> 00:03:02,159

you can learn more about nasa missions