



**Jupiter**



**Venus**



**Moon**

(Not to scale)

1  
00:00:10,390 --> 00:00:06,470  
the 2012 perseid meteor shower

2  
00:00:12,390 --> 00:00:10,400  
presented by science at nasa

3  
00:00:15,270 --> 00:00:12,400  
on the nights of august 11th through

4  
00:00:17,269 --> 00:00:15,280  
13th the best meteor shower of the year

5  
00:00:18,950 --> 00:00:17,279  
will fill pre-dawn skies with hundreds

6  
00:00:21,670 --> 00:00:18,960  
of shooting stars

7  
00:00:23,269 --> 00:00:21,680  
and that's just for starters

8  
00:00:25,269 --> 00:00:23,279  
the brightest planets in the solar

9  
00:00:27,189 --> 00:00:25,279  
system are lining up right in the middle

10  
00:00:29,189 --> 00:00:27,199  
of the display

11  
00:00:31,830 --> 00:00:29,199  
the perseid meteor shower peaks on the

12  
00:00:33,590 --> 00:00:31,840  
nights around august 12 as earth passes

13  
00:00:35,430 --> 00:00:33,600

through a stream of debris from comet

14

00:00:37,590 --> 00:00:35,440

swift tuttle

15

00:00:39,750 --> 00:00:37,600

we expect to see meteor rates as high as

16

00:00:42,470 --> 00:00:39,760

a hundred per hour says bill cook of

17

00:00:45,990 --> 00:00:42,480

nasa's meteoroid environment office

18

00:00:48,470 --> 00:00:46,000

the perseids always put on a good show

19

00:00:49,910 --> 00:00:48,480

perseids can be seen any time after 10

20

00:00:51,830 --> 00:00:49,920

to 11 pm

21

00:00:55,189 --> 00:00:51,840

the best time to look however is during

22

00:00:56,869 --> 00:00:55,199

the dark hours immediately before dawn

23

00:00:59,349 --> 00:00:56,879

also advises cook

24

00:01:01,270 --> 00:00:59,359

avoid city lights if possible

25

00:01:02,869 --> 00:01:01,280

faint meteors are easily lost in the

26

00:01:04,549 --> 00:01:02,879

urban glare

27

00:01:06,390 --> 00:01:04,559

a visit to the countryside will

28

00:01:08,469 --> 00:01:06,400

typically triple the number of meteors

29

00:01:10,550 --> 00:01:08,479

you see

30

00:01:12,630 --> 00:01:10,560

this year's display is extra special

31

00:01:15,749 --> 00:01:12,640

because of the planets

32

00:01:17,590 --> 00:01:15,759

jupiter venus and the crescent moon are

33

00:01:20,310 --> 00:01:17,600

gathering together just as the perseid

34

00:01:22,310 --> 00:01:20,320

meteor shower reaches its peak

35

00:01:24,469 --> 00:01:22,320

the alignment occurs in the eastern sky

36

00:01:27,510 --> 00:01:24,479

before sunrise on the three mornings of

37

00:01:30,870 --> 00:01:27,520

highest meteor activity

38

00:01:33,270 --> 00:01:30,880

on august 11th a 33 crescent moon will

39

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

glide by jupiter temporarily forming a

40

00:01:36,469 --> 00:01:35,200

bright pair directly above brilliant

41

00:01:38,550 --> 00:01:36,479

venus

42

00:01:40,710 --> 00:01:38,560

red giant star aldebaran will be there

43

00:01:42,310 --> 00:01:40,720

too adding a splash of color to the

44

00:01:45,510 --> 00:01:42,320

gathering

45

00:01:47,429 --> 00:01:45,520

on august 12th the narrowing 24 crescent

46

00:01:48,789 --> 00:01:47,439

moon will drop down between jupiter and

47

00:01:51,030 --> 00:01:48,799

venus

48

00:01:52,389 --> 00:01:51,040

together they make a bright three-point

49

00:01:55,830 --> 00:01:52,399

line in the sky

50

00:01:58,230 --> 00:01:55,840

frequently bisected by shooting stars

51  
00:01:59,510 --> 00:01:58,240  
on august 13th with the shower just

52  
00:02:02,469 --> 00:01:59,520  
beginning to wane

53  
00:02:05,429 --> 00:02:02,479  
the planets put on their best show yet

54  
00:02:07,510 --> 00:02:05,439  
the 17 crescent moon will pass less than

55  
00:02:09,990 --> 00:02:07,520  
three degrees from venus as jupiter

56  
00:02:11,910 --> 00:02:10,000  
hovers overhead

57  
00:02:13,510 --> 00:02:11,920  
skywatchers say there's nothing prettier

58  
00:02:16,309 --> 00:02:13,520  
than a close encounter between the

59  
00:02:18,470 --> 00:02:16,319  
slender crescent moon and venus

60  
00:02:19,270 --> 00:02:18,480  
nothing that is except for the crescent

61  
00:02:20,229 --> 00:02:19,280  
moon

62  
00:02:23,110 --> 00:02:20,239  
venus

63  
00:02:24,790 --> 00:02:23,120

and a flurry of perseids

64

00:02:26,710 --> 00:02:24,800

it's only natural while you're watching

65

00:02:28,229 --> 00:02:26,720

a meteor shower like the perseids to

66

00:02:29,270 --> 00:02:28,239

count the number of shooting stars you

67

00:02:30,949 --> 00:02:29,280

see

68

00:02:32,229 --> 00:02:30,959

it turns out those numbers in your head

69

00:02:33,990 --> 00:02:32,239

are valuable

70

00:02:35,670 --> 00:02:34,000

nasa wants them

71

00:02:37,509 --> 00:02:35,680

meteor tallies gathered by amateur

72

00:02:39,670 --> 00:02:37,519

skywatchers can be used by nasa's

73

00:02:42,390 --> 00:02:39,680

meteoroid environment office to study

74

00:02:44,390 --> 00:02:42,400

and model the perseid debris stream

75

00:02:46,710 --> 00:02:44,400

we've developed an app for android and

76

00:02:49,190 --> 00:02:46,720

iphones to help amateur skywatchers

77

00:02:51,830 --> 00:02:49,200

count meteors in a scientific way and

78

00:02:53,750 --> 00:02:51,840

report the results to us says cook

79

00:02:55,589 --> 00:02:53,760

it's called the meteor counter and it's

80

00:02:58,790 --> 00:02:55,599

available for free in the android

81

00:03:00,229 --> 00:02:58,800

marketplace and apple's app store

82

00:03:03,190 --> 00:03:00,239

whether you're counting meteors for

83

00:03:05,350 --> 00:03:03,200

science or just watching them for fun

84

00:03:07,670 --> 00:03:05,360

this is a must-see event

85

00:03:09,509 --> 00:03:07,680

enjoy the show

86

00:03:11,030 --> 00:03:09,519

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