
EClipse

1
00:00:00,400 --> 00:00:04,003
[■]

2
00:00:04,036 --> 00:00:05,338
What's Up for August?

3
00:00:05,371 --> 00:00:08,374
August 21st's total
solar eclipse

4
00:00:08,407 --> 00:00:10,943
traces a narrow path
across the nation,

5
00:00:10,976 --> 00:00:13,413
though most of the U.S. will
see a partial eclipse.

6
00:00:14,481 --> 00:00:15,982
Hello and welcome. I'm Jane
Houston Jones from

7
00:00:16,015 --> 00:00:19,318
NASA's Jet Propulsion Laboratory
in Pasadena, California.

8
00:00:20,486 --> 00:00:23,756
Not everyone can travel to the
narrow path of totality,

9
00:00:23,789 --> 00:00:25,391
so here are some things
to look for--

10
00:00:25,424 --> 00:00:28,561
no matter whether you see
totality or a partial eclipse.

11
00:00:29,562 --> 00:00:32,365

Before eclipse day, pack
your eclipse toolkit

12
00:00:32,398 --> 00:00:36,702
with a notebook, pen or pencil,
a clock, a stopwatch,

13
00:00:36,735 --> 00:00:39,739
the front page of a newspaper,
a thermometer,

14
00:00:39,772 --> 00:00:42,442
and a stick with a piece of
crepe paper tied to it.

15
00:00:42,475 --> 00:00:44,477
And bring an assistant
to help conduct

16
00:00:44,510 --> 00:00:46,646
some science observations.

17
00:00:46,679 --> 00:00:49,048
Practice using a citizen
science phone app

18
00:00:49,081 --> 00:00:52,218
to help you study clouds,
air and surface temperatures

19
00:00:52,251 --> 00:00:53,586
during the eclipse.

20
00:00:53,619 --> 00:00:55,254
A good one is the GLOBE app.

21
00:00:56,288 --> 00:00:58,458
Go to the location where
you'll view the eclipse

22
00:00:58,491 --> 00:01:00,159
and check for trees
and buildings

23
00:01:00,192 --> 00:01:01,327
that may obstruct your view.

24
00:01:02,328 --> 00:01:05,064
Totality lasts less
than 3 minutes

25
00:01:05,097 --> 00:01:06,833
so you may want to
focus on doing

26
00:01:06,866 --> 00:01:09,235
only one science observation.

27
00:01:09,268 --> 00:01:12,038
Or just really
experience the eclipse!

28
00:01:12,071 --> 00:01:14,674
Don't waste this
once-in-a-lifetime opportunity

29
00:01:14,707 --> 00:01:17,009
by watching it on
your phone's screen.

30
00:01:17,042 --> 00:01:19,512
Plan to have your safe
solar-viewing glasses

31
00:01:19,545 --> 00:01:21,013
within immediate reach--

32
00:01:21,046 --> 00:01:22,949
in your pocket or

around your neck--

33
00:01:22,982 --> 00:01:26,853
for quick eye protection
before and after totality.

34
00:01:26,886 --> 00:01:30,723
Just before totality, if you
have a good view of the horizon,

35
00:01:30,756 --> 00:01:33,493
look west for the
approaching shadow.

36
00:01:33,526 --> 00:01:36,596
After totality, look east
low on the horizon

37
00:01:36,629 --> 00:01:38,397
for the departing shadow.

38
00:01:38,430 --> 00:01:40,433
If it's cloudy try
to see the shadow

39
00:01:40,466 --> 00:01:43,336
by looking up at the
bottoms of the clouds.

40
00:01:43,369 --> 00:01:46,339
During totality, look for stars.

41
00:01:46,372 --> 00:01:49,175
Can you see Regulus
in the solar corona?

42
00:01:49,208 --> 00:01:51,010
The stars of Orion?

43

00:01:51,043 --> 00:01:53,713
How early and how late
is Venus visible?

44
00:01:53,746 --> 00:01:55,982
Can you see any other planets?

45
00:01:56,015 --> 00:01:58,284
Before and after totality
you may see

46
00:01:58,317 --> 00:02:00,620
moving waves of
light and shadow

47
00:02:00,653 --> 00:02:04,223
like the patterns you see on the
bottom of a swimming pool.

48
00:02:04,256 --> 00:02:06,592
How dark does it get
at totality?

49
00:02:06,625 --> 00:02:09,328
As it gets darker, look at the
newspaper you brought

50
00:02:09,361 --> 00:02:12,465
and see what's the smallest
print you can read.

51
00:02:13,633 --> 00:02:16,035
How much does the temperature
drop during totality?

52
00:02:17,103 --> 00:02:20,173
Does the wind start, stop,
or change direction?

53
00:02:21,407 --> 00:02:25,011

Watch and listen for changes in
animal and bird behavior.

54
00:02:25,678 --> 00:02:27,013
During the partial phases,

55
00:02:27,046 --> 00:02:29,882
use your hands as a
pinhole projector.

56
00:02:29,915 --> 00:02:32,385
You'll be able to see the
crescent shape of the sun

57
00:02:32,418 --> 00:02:35,454
projected through the spaces
created by your fingers.

58
00:02:35,487 --> 00:02:38,424
You can also make a paper
pinhole projector.

59
00:02:38,457 --> 00:02:41,561
In fact, any item with one or
more holes in it--

60
00:02:41,594 --> 00:02:43,262
like a kitchen colander

61
00:02:43,295 --> 00:02:45,398
a loosely woven straw hat,

62
00:02:45,431 --> 00:02:48,901
even leaves on trees will
project the crescent shapes.

63
00:02:50,035 --> 00:02:52,405
You can find out about all of
NASA's missions at:

64
00:02:52,438 --> 00:02:55,007
www.nasa.gov

65
00:02:55,040 --> 00:02:57,577
And you can find out more
about the eclipse--

66
00:02:57,610 --> 00:03:03,282
including eclipse safety--at:
eclipse2017.nasa.gov

67
00:03:04,383 --> 00:03:06,152
That's all for this month.
I'm Jane Houston Jones.

68
00:03:06,886 --> 00:03:07,987
NASA Jet Propulsion Laboratory