



1
00:00:00,310 --> 00:00:03,780
Humanity's first mission to touch the Sun
...

2
00:00:03,780 --> 00:00:07,569
Administrator Bridenstine visits Kennedy Space
Center ...

3
00:00:07,569 --> 00:00:13,270
and historic California wildfires seen from
space ... a few of the stories to tell you

4
00:00:13,270 --> 00:00:16,320
about – This Week at NASA!

5
00:00:16,320 --> 00:00:20,720
Our Parker Solar Probe spacecraft will be
the first mission to fly directly through

6
00:00:20,720 --> 00:00:25,699
the Sun's corona – the hazardous region
of intense heat and solar radiation in the

7
00:00:25,699 --> 00:00:29,409
Sun's atmosphere that is visible during
an eclipse.

8
00:00:29,409 --> 00:00:35,110
The extreme flybys – as close as about 3.8
million miles from the Sun's surface – will

9
00:00:35,110 --> 00:00:41,290
gather data to help revolutionize our understanding
of the Sun and how it changes the space environment.

10
00:00:41,290 --> 00:00:47,440
“The threats that come from this plasma
– from these particles that we think about

11

00:00:47,440 --> 00:00:49,070

as space weather.

12

00:00:49,070 --> 00:00:54,390

As a technological society what comes towards the Earth matters.”

13

00:00:54,390 --> 00:00:59,910

Administrator Jim Bridenstine visited our Kennedy Space Center on Aug. 6 and 7 – his

14

00:00:59,910 --> 00:01:04,400

first official visit to KSC as the agency’s administrator.

15

00:01:04,400 --> 00:01:09,289

Bridenstine met with employees and toured various NASA and commercial partner facilities

16

00:01:09,289 --> 00:01:11,040

at the multi-user spaceport.

17

00:01:11,040 --> 00:01:16,859

He also met with the media following an Industry Roundtable hosted by the Economic Development

18

00:01:16,859 --> 00:01:21,770

Commission of Florida’s Space Coast and Space Florida.

19

00:01:21,770 --> 00:01:27,009

Imagery from our Aqua satellite and from the International Space Station shows billowing

20

00:01:27,009 --> 00:01:32,409

smoke from the series of wildfires raging across Northern California – including the

21

00:01:32,409 --> 00:01:38,270

Mendocino Complex – which has become the

largest wildfire in the state's history.

22

00:01:38,270 --> 00:01:43,639

This complex consists of two separate fires that have burned more than 290,000 acres in

23

00:01:43,639 --> 00:01:47,700

the region north of San Francisco.

24

00:01:47,700 --> 00:01:54,450

These are computer simulated views of a planet outside our solar system known as WASP-121b,

25

00:01:54,450 --> 00:01:57,390

a so-called "ultrahot Jupiter."

26

00:01:57,390 --> 00:02:02,299

These planets reflect almost no light – but get so hot that they produce their own glow,

27

00:02:02,299 --> 00:02:04,240

like an ember of charcoal.

28

00:02:04,240 --> 00:02:09,369

The dayside temperatures of these planets can top 5000 degrees Fahrenheit.

29

00:02:09,369 --> 00:02:17,430

Observations of WASP-121b were conducted using our Spitzer and Hubble space telescopes.

30

00:02:17,430 --> 00:02:23,620

This sequence of images captured by our planet-hunting Transiting Exoplanet Survey Satellite or (TESS),

31

00:02:23,620 --> 00:02:29,650

shows the movement of a comet – some 29 million miles away – orbiting the Sun.

32

00:02:29,650 --> 00:02:36,079

The images, taken over the course of 17 hours before TESS started science operations, demonstrate

33

00:02:36,079 --> 00:02:41,010

the satellite's ability to collect a series of stable images covering a broad region of

34

00:02:41,010 --> 00:02:46,090

the sky — a critical factor in finding transiting planets orbiting nearby stars.

35

00:02:46,090 --> 00:02:49,950

That's what's up this week @NASA ...