



1
00:00:00,770 --> 00:00:04,140
Important cargo headed to the space station
...

2
00:00:04,140 --> 00:00:07,990
Installing the thrust behind our return to
the Moon ...

3
00:00:07,990 --> 00:00:13,020
And a devastating wildfire seen from space...
a few of the stories to tell you about – This

4
00:00:13,020 --> 00:00:18,870
Week at NASA!
On Nov. 2, our commercial partner Northrop

5
00:00:18,870 --> 00:00:24,400
Grumman launched its Cygnus cargo spacecraft
from our Wallops Flight Facility in Virginia

6
00:00:24,400 --> 00:00:29,570
with about 8,200 pounds of research, crew
supplies, and hardware for the crew aboard

7
00:00:29,570 --> 00:00:34,820
the International Space Station. The cargo
includes a special vest designed to protect

8
00:00:34,820 --> 00:00:41,260
astronauts from radiation caused by unpredictable
solar particle events. Space station astronauts

9
00:00:41,260 --> 00:00:46,590
will wear the vest and provide input that
could be used to improve design and use of

10
00:00:46,590 --> 00:00:52,010
the vest to protect crew members on future
missions to the Moon and Mars. The Cygnus

11
00:00:52,010 --> 00:00:57,140
spacecraft is named after late Apollo and Skylab astronaut Alan Bean, who became the

12
00:00:57,140 --> 00:01:02,860
fourth human to walk on the Moon on Apollo 12.

13
00:01:02,860 --> 00:01:06,810
Five weeks after delivering more than four tons of supplies, scientific experiments,

14
00:01:06,810 --> 00:01:12,409
and hardware to the International Space Station, Japan's HTV-8 cargo spacecraft left the

15
00:01:12,409 --> 00:01:19,259
station on Nov. 1. The cargo delivered by HTV-8 included new lithium-ion batteries to

16
00:01:19,259 --> 00:01:24,490
upgrade the older nickel-hydrogen batteries that store power generated by the station's

17
00:01:24,490 --> 00:01:30,049
solar arrays.\h\nEngineers and technicians at NASA's Michoud

18
00:01:30,049 --> 00:01:35,259
Assembly Facility in New Orleans are in the process of outfitting the core stage of our

19
00:01:35,259 --> 00:01:40,979
Space Launch System, or SLS rocket with the RS-25 engines that will help SLS power the

20
00:01:40,979 --> 00:01:46,630
first Artemis mission to the Moon.\hThe completed core stage with all four engines attached

21
00:01:46,630 --> 00:01:52,029
will be the largest rocket stage NASA has
built since the Saturn V stages for the Apollo

22
00:01:52,029 --> 00:01:57,159
Program.\h\h
Our Earth-observing Terra satellite captured

23
00:01:57,159 --> 00:02:02,249
images of California's devastating Kincade
Fire as it burned in Sonoma County – north

24
00:02:02,249 --> 00:02:08,550
of San Francisco. Smoke plumes from the blaze,
which started Oct. 23, can be seen cascading

25
00:02:08,550 --> 00:02:14,720
down the California coast. Dry conditions
and fierce, nearly 100 mile per hour winds

26
00:02:14,720 --> 00:02:20,030
known as Diablo winds, have helped the fire
spread quickly and made it extremely difficult

27
00:02:20,030 --> 00:02:25,290
to stop.\h\h
And a mix of creativity and creepiness gave

28
00:02:25,290 --> 00:02:30,690
Halloween a bit of a cosmic twist at NASA.
Examples of our Halloween spirit include this

29
00:02:30,690 --> 00:02:36,200
new image from our Hubble Space Telescope.
It looks like a pair of glaring eyes belonging

30
00:02:36,200 --> 00:02:42,670
to a spooky face in space, but is actually
a head-on collision between two galaxies just

31
00:02:42,670 --> 00:02:49,500
over 700 million light-years from Earth. Meanwhile
our Jet Propulsion Laboratory, or JPL released

32
00:02:49,500 --> 00:02:55,240
two new vintage horror movie posters as part
of a Galaxy of Horrors series highlighting

33
00:02:55,240 --> 00:03:01,230
some truly terrifying exoplanets, or planets
outside our solar system. How's this for

34
00:03:01,230 --> 00:03:06,780
scary? One of these exoplanets has an atmosphere
full of silicates — the key component in

35
00:03:06,780 --> 00:03:11,820
sand and glass — that are possibly being
whipped around in winds blowing at more than

36
00:03:11,820 --> 00:03:18,400
5,400 miles per hour. Download the posters
and learn about other inhospitable exoplanets

37
00:03:18,400 --> 00:03:26,780
atgo.nasa.gov/galaxyofhorrors. And a pumpkin
carving contest at JPL, now in its ninth year,

38
00:03:26,780 --> 00:03:31,990
included a number of unique out of this world
ideas and designs truly reflective of what