

A photograph of a space shuttle launch. On the left, the concrete structure of the launch pad is visible, with a large, bright orange flame and white smoke plume from the engine. A massive, billowing cloud of white smoke or steam dominates the center and right side of the frame, partially obscuring the sky. The sky is a pale blue with scattered white clouds. In the foreground, a metal railing is visible, suggesting the viewer is on a walkway or observation deck.

TW@N

THIS WEEK @ NASA

1
00:00:00,080 --> 00:00:04,560
the engine for our artemis moon rocket\h
is all fired up final launch preparations\h\h

2
00:00:04,560 --> 00:00:09,440
for an historic mission and how you can\h
hear back billions of years into the past\h\h

3
00:00:09,440 --> 00:00:15,920
a few of the stories to tell\h
you about this week at nasa

4
00:00:19,040 --> 00:00:24,480
on august 5th engineers at our stennis space\h
center conducted the sixth rs-25 engine hot\h\h

5
00:00:24,480 --> 00:00:30,160
fire test of the current seven part test\h
series four rs-25s will help power the\h\h

6
00:00:30,160 --> 00:00:36,800
space launch system rocket on future moon missions\h
including artemis 1 targeted for later this year\h\h

7
00:00:36,800 --> 00:00:43,440
for more details visit nasa.gov sls our\h
lucy spacecraft arrived recently at our\h\h

8
00:00:43,440 --> 00:00:49,440
kennedy space center and was transported to\h
nearby astrotech for final launch preparations\h\h

9
00:00:49,440 --> 00:00:55,440
lucy's 23-day launch window opens october 16th\h
it will be the first space mission to the trojan\h\h

10
00:00:55,440 --> 00:01:01,600
asteroids a diverse population of small bodies\h
believed to be remnants of our early solar system\h\h

11
00:01:01,600 --> 00:01:08,320
that are trapped in stable orbits associated with the planet jupiter learn more at [nasa.gov lucy](https://www.nasa.gov/lucy)

12
00:01:08,880 --> 00:01:14,640
from august 2nd through the 6th we celebrated the hubble space telescope's iconic deep field images

13
00:01:14,640 --> 00:01:20,640
that have revolutionized our understanding of the universe this sonification of the hubble ultra

14
00:01:20,640 --> 00:01:25,840
deep field image plays a note as the captured light emitted by each galaxy shows up in the image

15
00:01:33,280 --> 00:01:38,240
the farther away the galaxy is the longer its light traveled before reaching hubble

16
00:01:38,240 --> 00:01:44,480
in the sonification which is just under a minute long we can hear back nearly 13 billion years to

17
00:01:44,480 --> 00:01:49,760
the farthest galaxies in the image nasa's spacesuit user interface technologies for

18
00:01:49,760 --> 00:01:55,280
students or suits challenge is looking for college students to create graphical spacesuit

19
00:01:55,280 --> 00:02:01,360
information displays within augmented reality environments for a simulated mission to the moon

20
00:02:01,360 --> 00:02:06,720
technologies like this could help astronauts on future artemis lunar surface exploration missions

21
00:02:06,720 --> 00:02:10,800
for more about this and other ways\h
you can be part of the artemis mission\h\h

22
00:02:10,800 --> 00:02:18,080
check out stem.nasa.gov artemis we demonstrated\h
our scalable traffic management for emergency\h\h

23
00:02:18,080 --> 00:02:24,880
response operations or stereo project during a\h
recent wildfire simulation in northern california\h\h

24
00:02:24,880 --> 00:02:30,240
to show how the technology can help emergency\h
responders work more safely and effectively\h\h

25
00:02:30,240 --> 00:02:36,160
stereo uses nasa's expertise in drone traffic\h
management to provide a way to coordinate an\h\h

26
00:02:36,160 --> 00:02:41,840
emergency response effort that keeps assets in\h
the air and on the ground in close contact but\h\h

27
00:02:41,840 --> 00:02:48,800
safely out of each other's way nasa's all-electric\h
x-57 maxwell experimental aircraft has completed\h\h

28
00:02:48,800 --> 00:02:54,880
high voltage testing another milestone toward\h
first flight high voltage testing powers the\h\h

29
00:02:54,880 --> 00:02:59,920
aircraft from an auxiliary power supply to test\h
the functionality of the integrated systems\h\h

30
00:02:59,920 --> 00:03:07,440
under full power next up the x-57 will undergo\h
verification and validation testing that's what's\h\h

