

A group of people, including men and women, are standing outdoors in winter attire. They are wearing heavy black jackets and purple knit hats. In the background, there is a tall, white lattice tower and bare trees under a clear blue sky. A black text box with a blue vertical bar on the left is overlaid at the bottom of the image.

is set to launch on March 21 ...

1
00:00:00,429 --> 00:00:03,990

Uncovering a relic galaxy in our own cosmic backyard ...

2
00:00:03,990 --> 00:00:07,839

Preparing for launch to the space station
...

3
00:00:07,839 --> 00:00:13,060

And honoring the legacy of Stephen Hawking
- a few of the stories to tell you about - This

4
00:00:13,060 --> 00:00:16,490

Week at NASA!

5
00:00:16,490 --> 00:00:22,410

Our Hubble Space Telescope has uncovered an
ancient "relic galaxy" in our own cosmic backyard,

6
00:00:22,410 --> 00:00:30,279

composed exclusively of aging stars born about
10 billion years ago. The galaxy, NGC 1277,

7
00:00:30,279 --> 00:00:35,910

has twice as many stars as our Milky Way but
is only one quarter the size. The finding

8
00:00:35,910 --> 00:00:42,190

could provide new insights into the origin
and evolution of galaxies billions of years

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00:00:42,190 --> 00:00:43,660

ago.

10
00:00:43,660 --> 00:00:50,040

Our astronauts Drew Feustel and Ricky Arnold
joined Russia's Oleg Artemyev in Kazakhstan

11
00:00:50,040 --> 00:00:55,070

to prepare for their upcoming launch to the International Space Station. The Expedition

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00:00:55,070 --> 00:01:04,039

55/56 trio is set to launch on March 21 for a five-month mission on the orbital outpost.

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00:01:04,039 --> 00:01:09,060

Our Planetary Defense Coordination Office hosted a workshop to show meteorologists how

14

00:01:09,060 --> 00:01:15,650

we find, track, and potentially mitigate any future asteroid impact threats to Earth.

15

00:01:15,650 --> 00:01:20,470

The office is responsible for issuing timely warnings and communications about potential

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00:01:20,470 --> 00:01:26,020

impacts, and leading the coordination of U.S. Government planning for response to an actual

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00:01:26,020 --> 00:01:29,120

impact threat.

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00:01:29,120 --> 00:01:36,380

We helped space fans celebrate Pi Day on March 14 with the fifth annual "Pi in the Sky" challenge.

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00:01:36,380 --> 00:01:42,290

Pi is the mathematical constant that starts with the numbers 3.14. The challenge's math

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00:01:42,290 --> 00:01:47,229

problems show how pi can be used to learn about all kinds of curious features of the

21

00:01:47,229 --> 00:01:53,990

universe, including earthquakes on Mars, helium

rain on Jupiter, and planets orbiting other

22

00:01:53,990 --> 00:01:56,680

stars.

23

00:01:56,680 --> 00:02:03,409

Renowned astrophysicist Stephen Hawking died at his home in Cambridge, England on March

24

00:02:03,409 --> 00:02:10,159

14. In a statement, acting NASA Administrator Robert Lightfoot called Hawking a longtime

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00:02:10,159 --> 00:02:16,489

friend to NASA, and a passionate communicator who wanted to share the excitement of discovery

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00:02:16,489 --> 00:02:22,799

with all. Lightfoot further noted that Hawking's breakthroughs in physics and astronomy changed

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00:02:22,799 --> 00:02:29,669

how we view the cosmos, and will continue to play a pivotal role in shaping our efforts

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00:02:29,669 --> 00:02:35,790

to explore our solar system and beyond.

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00:02:35,790 --> 00:02:37,599

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