



1

00:00:00,760 --> 00:00:04,300

"Here's some of the stories trending This Week at NASA!"

2

00:00:04,300 --> 00:00:11,430

NASA's Juno spacecraft made its latest close flyby of Jupiter Feb. 2 -- passing about 2,700

3

00:00:11,430 --> 00:00:13,840

miles above the planet's clouds.

4

00:00:13,840 --> 00:00:19,930

This was the fourth close flyby since Juno began orbiting Jupiter last year on July 4.

5

00:00:19,930 --> 00:00:24,830

During these close passes instruments on the spacecraft probe beneath the cloud cover to

6

00:00:24,830 --> 00:00:30,930

collect scientific data about the planet's structure, atmosphere and magnetosphere.

7

00:00:30,930 --> 00:00:35,500

This information could help us better understand the planetary systems being discovered around

8

00:00:35,500 --> 00:00:38,260

other stars.

9

00:00:38,260 --> 00:00:43,039

From Jupiter to Saturn... where the Cassini spacecraft has returned some of the closest,

10

00:00:43,039 --> 00:00:46,710

most detailed images of that planet's outer ring system.

11

00:00:46,710 --> 00:00:51,329

Cassini is in the "Ring-Grazing" phase of its mission -- during which its orbital path

12
00:00:51,329 --> 00:00:55,730
repeatedly takes it through the gap between Saturn and its rings.

13
00:00:55,730 --> 00:01:01,799
This will continue until late April – when Cassini begins its final phase.

14
00:01:01,799 --> 00:01:08,870
According to findings announced Jan. 30, NASA's Fermi Gamma-ray Space Telescope has identified

15
00:01:08,870 --> 00:01:13,100
the farthest gamma-ray blazars observed to date.

16
00:01:13,100 --> 00:01:17,640
These are galaxies that can discharge more than two trillion times the energy output

17
00:01:17,640 --> 00:01:23,220
of our sun – with intense emissions caused by supersized black holes.

18
00:01:23,220 --> 00:01:28,090
The light seen from the most distant object in these blazars began traveling to Earth

19
00:01:28,090 --> 00:01:33,110
when the universe was about 1.4 billion years old.

20
00:01:33,110 --> 00:01:38,200
The space-themed Future Flight experience was featured at the Super Bowl LIVE fan festival

21
00:01:38,200 --> 00:01:41,730

Jan. 28 through Feb. 5 in Houston.

22

00:01:41,730 --> 00:01:46,210

The attraction was one of several NASA and aerospace industry activities and exhibits

23

00:01:46,210 --> 00:01:52,030

at the pre-Super Bowl event showcasing progress being made on Mars exploration, scientific

24

00:01:52,030 --> 00:01:57,200

research aboard the International Space Station, technology development, the agency's next

25

00:01:57,200 --> 00:02:03,270

great observatory, and studying our solar system and beyond.

26

00:02:03,270 --> 00:02:08,091

The NBA's Cleveland Cavaliers teamed up with NASA's Glenn Research Center for a

27

00:02:08,091 --> 00:02:13,209

Black Heritage Celebration Feb. 1 at Cleveland's Quicken Loans Arena.

28

00:02:13,209 --> 00:02:18,690

The annual tribute recognizes African American trailblazers in math and science.

29

00:02:18,690 --> 00:02:23,409

Former NASA astronaut Guy Bluford, the first African American in space and a Cleveland

30

00:02:23,409 --> 00:02:29,879

resident participated, as did Glenn Center Director Janet Kavandi.

31

00:02:29,879 --> 00:02:35,560

Acting NASA Administrator Robert Lightfoot

and others participated in a wreath laying

32

00:02:35,560 --> 00:02:44,159

ceremony, Jan. 31 at Arlington National Cemetery
in Virginia as part of NASA's Day of Remembrance.

33

00:02:44,159 --> 00:02:50,930

Each year, the agency pays tribute to the
fallen astronauts of Apollo 1, space shuttles

34

00:02:50,930 --> 00:02:58,260

Challenger and Columbia, and other members
of the NASA family who lost their lives supporting

35

00:02:58,260 --> 00:03:03,209

the agency's mission of exploration and
discovery.

36

00:03:03,209 --> 00:03:05,420

And that's what's up this week @NASA ...