



# TW@N

This Week @NASA



1  
00:00:00,650 --> 00:00:05,000

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

2  
00:00:05,000 --> 00:00:09,530

Orbital Sciences' Cygnus cargo craft was detached  
and released from the International Space

3  
00:00:09,530 --> 00:00:15,480

Station February 18, more than a month after  
arriving with over a ton of supplies and experiments

4  
00:00:15,480 --> 00:00:17,660

for the Expedition 38 crew.

5  
00:00:17,660 --> 00:00:20,939

The cargo craft burned up on reentry in the  
Earth's atmosphere.

6  
00:00:20,939 --> 00:00:25,820

The Orbital-1 mission was the first of at  
least eight NASA contracted cargo missions

7  
00:00:25,820 --> 00:00:30,330

to the space station for the company through  
2016.

8  
00:00:30,330 --> 00:00:34,770

Off the coast of California, the first full  
joint testing by NASA and the U.S. Navy of

9  
00:00:34,770 --> 00:00:39,610

procedures to recover the Orion spacecraft  
after water landings in the ocean, was halted

10  
00:00:39,610 --> 00:00:45,150

after the team experienced issues with the  
handling lines securing the Orion test article

11

00:00:45,150 --> 00:00:50,430

and turbulence from waves inside the well deck of the USS San Diego.

12

00:00:50,430 --> 00:00:54,610

Several test objectives were accomplished before the week's remaining tests were called

13

00:00:54,610 --> 00:01:00,410

off -- including successful recoveries of the forward bay cover, parachute and demonstrations

14

00:01:00,410 --> 00:01:07,100

of the coordination required between the team onboard the ship and mission control in Houston.

15

00:01:07,100 --> 00:01:12,390

With the help of NASA's Nuclear Spectroscopic Telescope Array, or NuSTAR , researchers are

16

00:01:12,390 --> 00:01:17,280

closer to understanding one of astronomy's biggest mysteries -- how stars explode...

17

00:01:17,280 --> 00:01:18,930

or go supernova.

18

00:01:18,930 --> 00:01:24,550

The high-energy X-ray observatory created the first-ever map of radioactive material

19

00:01:24,550 --> 00:01:29,909

in a supernova remnant, called Cassiopeia A, or Cas A for short.

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00:01:29,909 --> 00:01:34,770

The results reveal how shock waves from the cosmic explosions likely rip apart massive

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00:01:34,770 --> 00:01:37,350

dying stars.

22  
00:01:37,350 --> 00:01:41,979  
NASA Chief Scientist Ellen Stofan made a visit to Stennis Space Center this week to talk

23  
00:01:41,979 --> 00:01:44,440  
with employees and tour the facilities.

24  
00:01:44,440 --> 00:01:49,520  
She also participated in a FIRST Robotics demonstration at the INFINITY Science Center

25  
00:01:49,520 --> 00:01:54,990  
and spoke with students about NASA's work using applied science to create new tools

26  
00:01:54,990 --> 00:02:00,130  
that benefit life on Earth and solve real-world problems.

27  
00:02:00,130 --> 00:02:05,620  
Astronaut Dottie Metcalf-Lindenburger and others from NASA, industry and academia participated

28  
00:02:05,620 --> 00:02:10,619  
in the 9th annual Virginia Aerospace Day at the Virginia General Assembly building in

29  
00:02:10,619 --> 00:02:11,859  
Richmond, recently.

30  
00:02:11,859 --> 00:02:17,029  
It was an opportunity to showcase for elected officials the significant economic and technological

31  
00:02:17,029 --> 00:02:22,560  
impact that Langley Research Center and Wallops Flight Facility have on the Commonwealth and

32  
00:02:22,560 --> 00:02:27,859  
to promote science, technology, engineering  
and math-related education.

33  
00:02:27,859 --> 00:02:32,909  
February 20th was the fifty-second anniversary  
of John Glenn's historic flight aboard Friendship

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00:02:32,909 --> 00:02:33,950  
7.

35  
00:02:33,950 --> 00:02:38,480  
Glenn became the first American to orbit Earth,  
circling the globe three times.

36  
00:02:38,480 --> 00:02:42,620  
People in Perth, Western Australia, greeted  
him by turning on house lights and street

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00:02:42,620 --> 00:02:47,810  
lights as he passed over, earning Perth the  
nickname, "The City of Light".

38  
00:02:47,810 --> 00:02:52,120  
Glenn was celebrated as a national hero, with  
a ticker-tape parade in New York City after

39  
00:02:52,120 --> 00:02:53,829  
his return to Earth.

40  
00:02:53,829 --> 00:02:55,810  
And that's what's up ... This Week at NASA.