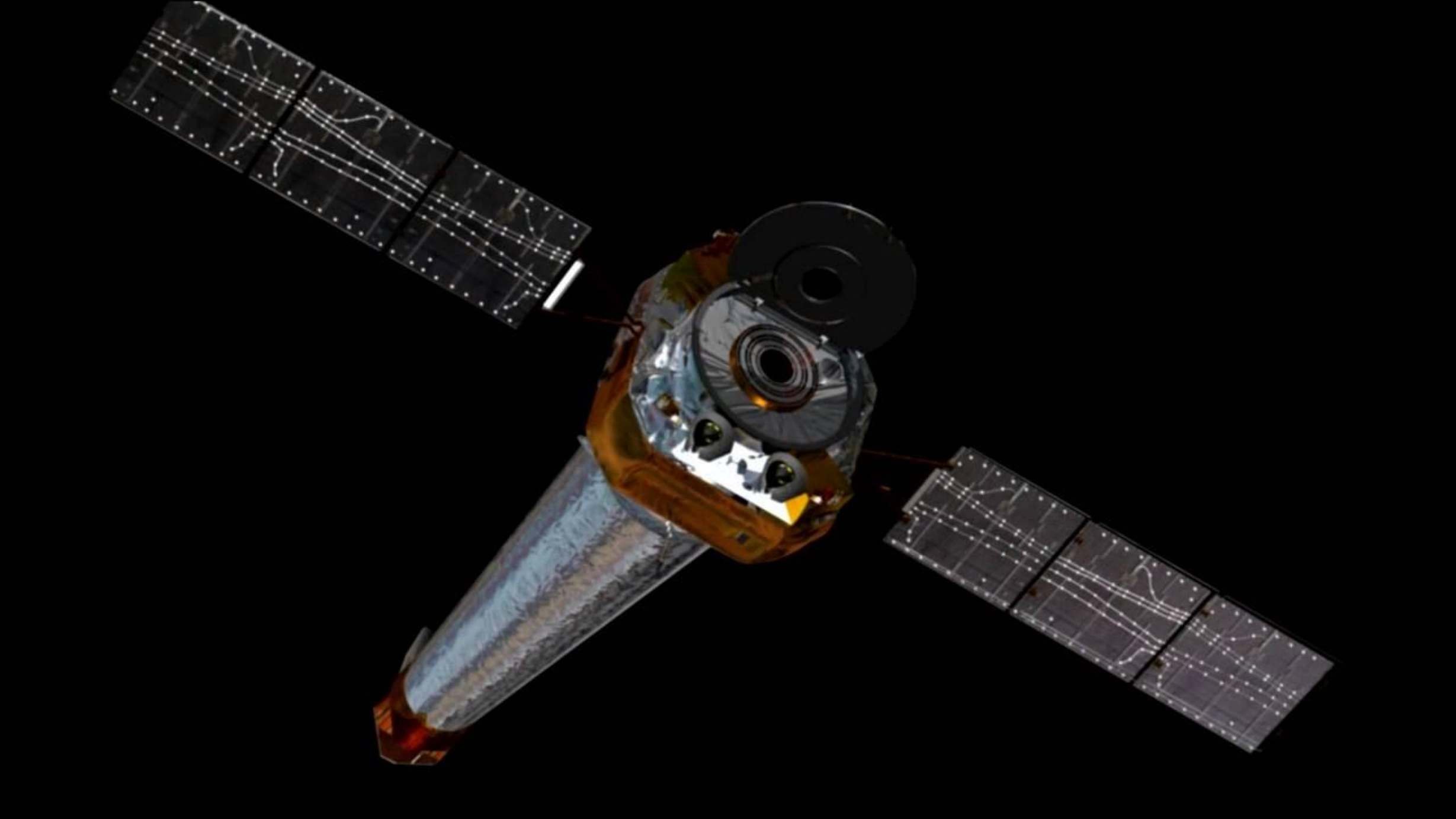

1
00:00:00,719 --> 00:00:05,130
“Here’s some of the stories trending This
Week at NASA!”

2
00:00:05,130 --> 00:00:10,920
New NASA astrophysics findings highlighted
at the 227th American Astronomical Society

3
00:00:10,920 --> 00:00:17,180
meeting, Jan. 4-8 in Kissimmee, Florida included
the detection of some extremely fast moving

4
00:00:17,180 --> 00:00:23,679
stars by NASA's Spitzer Space Telescope and
Wide-field Infrared Survey Explorer.

5
00:00:23,679 --> 00:00:27,999
The so-called runaway stars, which create
bow shocks ahead of themselves, may have been

6
00:00:27,999 --> 00:00:31,489
put into motion by the explosion of other
stars.

7
00:00:31,489 --> 00:00:36,590
NASA’s Chandra X-ray Observatory has seen
one of the nearest supermassive black holes

8
00:00:36,590 --> 00:00:39,610
to Earth expelling gas, or burping.

9
00:00:39,610 --> 00:00:44,490
The black hole is part of a galaxy about 26
million light years away that is merging with

10
00:00:44,490 --> 00:00:46,280
a larger galaxy.

11
00:00:46,280 --> 00:00:50,530

Astronomers believe the interaction between
the two galaxies is causing the black hole’s

12
00:00:50,530 --> 00:00:52,770
outbursts of gas.

13
00:00:52,770 --> 00:00:58,440
And NASA's Nuclear Spectroscopic Telescope
Array, or NuSTAR, has captured the best high-energy

14
00:00:58,440 --> 00:01:04,489
X-ray view yet of a portion of Andromeda – Earth’s
nearest large, neighboring galaxy.

15
00:01:04,489 --> 00:01:09,530
The "X-ray binaries" observed by NuSTAR will
help researchers better understand their role

16
00:01:09,530 --> 00:01:12,930
in the evolution of our universe.

17
00:01:12,930 --> 00:01:18,250
During a Jan. 7 news conference at the Johnson
Space Center in Houston, the Expedition 47/48

18
00:01:18,250 --> 00:01:23,850
crew, featuring NASA Astronaut Jeff Williams,
discussed its upcoming mission to the International

19
00:01:23,850 --> 00:01:24,850
Space Station.

20
00:01:24,850 --> 00:01:30,380
Williams, who will serve as Commander of Expedition
48, is serving on his third long-duration

21
00:01:30,380 --> 00:01:31,720
mission to the space station.

22

00:01:31,720 --> 00:01:37,500
He, and Russian cosmonauts Alexey Ovchinin
and Oleg Skripochka, will launch to the station

23
00:01:37,500 --> 00:01:42,360
on March 18 from the Baikonur Cosmodrome in
Kazakhstan.

24
00:01:42,360 --> 00:01:47,530
Green-related technologies developed and refined
over the past six-years through a NASA aeronautics

25
00:01:47,530 --> 00:01:52,729
research program could mean future savings
for the airline industry – while also helping

26
00:01:52,729 --> 00:01:54,640
to “save” the environment.

27
00:01:54,640 --> 00:01:59,250
The new technologies, developed through NASA’s
Environmentally Responsible Aviation (ERA)

28
00:01:59,250 --> 00:02:04,470
project, could significantly reduce fuel use,
pollution and noise – and help the industry

29
00:02:04,470 --> 00:02:12,640
realize over $250 billion in operational savings
between 2025 and 2050.

30
00:02:12,640 --> 00:02:17,220
A new three-year NASA field expedition gets
underway this year that will use advanced

31
00:02:17,220 --> 00:02:22,060
instruments on airplanes and in the water
to survey more of the world’s coral reefs

32
00:02:22,060 --> 00:02:25,830

in far greater detail than has ever been assessed before.

33
00:02:25,830 --> 00:02:29,800
The COral Reef Airborne Laboratory (CORAL) will measure the condition of these threatened

34
00:02:29,800 --> 00:02:35,940
ecosystems and create a unique database of uniform scale and quality.

35
00:02:35,940 --> 00:02:41,310
During a Jan. 6 visit to Goddard Space Flight Center in Greenbelt, Maryland, Senator Barbara

36
00:02:41,310 --> 00:02:45,790
Mikulski talked with Director Chris Scolese and the Goddard workforce about some of the

37
00:02:45,790 --> 00:02:48,370
programs being developed at the Center.

38
00:02:48,370 --> 00:02:53,250
2016 will be a busy year for Goddard – with involvement in several launches as well as

39
00:02:53,250 --> 00:02:58,730
testing of technologies and operational procedures to support NASA’s science and exploration

40
00:02:58,730 --> 00:03:01,190
missions – including the Journey to Mars.

41
00:03:01,190 --> 00:03:04,750
And that’s what’s up this week @NASA …