Black hole blurs X-ray light

1
00:00:00,640 --> 00:00:03,120
“Here’s some of the stories trending This
Week at NASA!”

2
00:00:03,120 --> 00:00:09,760
A month after its launch, the Orbiting Carbon
Observatory-2, NASA’s first spacecraft dedicated

3
00:00:09,760 --> 00:00:15,310
to studying atmospheric carbon dioxide – has
reached its final operating orbit and returned

4
00:00:15,310 --> 00:00:16,919
its first science data.

5
00:00:16,919 --> 00:00:22,119
“First light” test data were collected
on August 6 as OCO-2 flew over central New

6
00:00:22,119 --> 00:00:26,449
Guinea -- confirming the health of the spacecraft’s
science instrument’s.

7
00:00:26,449 --> 00:00:30,419
Aboard the International Space Station, the
European Space Agency’s fifth and final

8
00:00:30,419 --> 00:00:37,640
Automated Transfer Vehicle cargo ship docked
to the ISS on August 12.

9
00:00:37,640 --> 00:00:43,020
Named Georges Lemaitre after the 20th century
Belgian astronomer, the ATV delivered about

10
00:00:43,020 --> 00:00:47,180
7 tons of supplies to the station’s Expedition
40 crew.

11

00:00:47,180 --> 00:00:51,559
After a month-long stay, Orbital Sciences
Corporation’s Cygnus cargo craft departed

12
00:00:51,559 --> 00:00:54,710
the station August 15 loaded with trash.

13
00:00:54,710 --> 00:00:59,379
The Cygnus, dubbed the SS Janice Voss for
the late astronaut, arrived at the station

14
00:00:59,379 --> 00:01:03,070
on July 16 with almost three tons of supplies.

15
00:01:03,070 --> 00:01:07,660
If you looked up in the night sky on August
10, chances are saw “it”.

16
00:01:07,660 --> 00:01:10,890
It was the second and largest supermoon of
the summer.

17
00:01:10,890 --> 00:01:15,610
A supermoon – occurs when the moon becomes
full on the same day as its perigee — the

18
00:01:15,610 --> 00:01:19,030
point in the moon’s orbit when it’s closest
to Earth.

19
00:01:19,030 --> 00:01:22,290
The next supermoon is September 9.

20
00:01:22,290 --> 00:01:27,530
This image from NASA's Nuclear Spectroscopic
Telescope Array, or NuSTAR shows the extreme

21
00:01:27,530 --> 00:01:33,140
blurring and stretching of X-ray light from
a corona, caused by the intense gravitational

22
00:01:33,140 --> 00:01:38,570
pull of a supermassive black hole 324 million
light-years from Earth.

23
00:01:38,570 --> 00:01:42,940
Similar events have been observed before,
but never in such detail.

24
00:01:42,940 --> 00:01:48,009
NuSTAR is managed by NASA's Jet Propulsion
Laboratory for the Science Mission Directorate.

25
00:01:48,009 --> 00:01:53,000
Engineers at Stennis Space Center moved the
1-point-2 million pound Main Propulsion Test

26
00:01:53,000 --> 00:01:58,070
Article structure previously used for propulsion
testing with the space shuttle, to a base

27
00:01:58,070 --> 00:02:04,119
platform on the B-2 Test Stand in preparation
for testing the Space Launch System core stage.

28
00:02:04,119 --> 00:02:09,150
Another million pounds of steel will be used
to extend the structure so that it can accommodate

29
00:02:09,150 --> 00:02:11,160
the SLS core stage.

30
00:02:11,160 --> 00:02:15,220
NASA's Marshall Space Flight Center opened
the agency's latest "green" building

31
00:02:15,220 --> 00:02:18,790
during an August 13 ribbon-cutting ceremony.

32

00:02:18,790 --> 00:02:23,280
Among those joining Center Director Patrick Sheuermann at the event were U.S. Senator

33
00:02:23,280 --> 00:02:29,090
Jeff Sessions of Alabama and U.S. Representative Mo Brooks of Alabama's 5th District.

34
00:02:29,090 --> 00:02:33,200
Marshall opened the agency's first green building in 2006.

35
00:02:33,200 --> 00:02:38,709
NASA Administrator Charlie Bolden helped recognize the best of best at NASA during the Agency

36
00:02:38,709 --> 00:02:44,400
Honor Awards August 14 at headquarters, the annual event is meant to highlight the distinguished

37
00:02:44,400 --> 00:02:49,379
contributions of the honorees and to thank them for their valued service to NASA and

38
00:02:49,379 --> 00:02:50,379
its mission.

39
00:02:50,379 --> 00:02:52,730
And that’s what’s up this week @NASA …