



# TW@N

THIS WEEK @ NASA

1  
00:00:01,840 --> 00:00:05,280  
A long-distance call to space ...  
Space station cameras capture\h\h

2  
00:00:05,280 --> 00:00:07,760  
Hurricane Ida ...  
And another successful\h\h

3  
00:00:07,760 --> 00:00:12,480  
cargo delivery to the station ... a few of the\h  
stories to tell you about – This Week at NASA!  
\h

4  
00:00:13,680 --> 00:00:17,760  
“Guys, you really look good ...”  
During a visit to our Johnson\h\h

5  
00:00:17,760 --> 00:00:22,880  
Space Center’s Christopher C. Kraft Jr. Mission\h  
Control Center, NASA Administrator Bill Nelson,\h\h

6  
00:00:22,880 --> 00:00:28,320  
Deputy Administrator Pam Melroy and several\h  
members of Congress talked with the crew aboard\h\h

7  
00:00:28,320 --> 00:00:33,040  
the International Space Station about the\h  
station’s critical role in low-Earth orbit.  
\h

8  
00:00:33,040 --> 00:00:36,880  
“The space station is a really great research\h  
platform, so there’s lots of instruments\h\h

9  
00:00:36,880 --> 00:00:41,680  
outside the space station that are constantly\h  
taking data and can take data for years.”  
\h

10  
00:00:41,680 --> 00:00:44,400

"I just can't tell you how  
awesome it is to see all of you,\h\h

11  
00:00:45,680 --> 00:00:49,440  
especially the wonderful diversity of the crew."  
\h

12  
00:00:49,440 --> 00:00:54,080  
They also touched on the center's work for  
NASA's Artemis program to build a long-term\h\h

13  
00:00:54,080 --> 00:00:57,840  
human presence on and around the Moon ...  
"And then we're going to Mars.\h\h

14  
00:00:58,720 --> 00:01:02,080  
Onward and upward."  
Cameras on the space station\h\h

15  
00:01:02,080 --> 00:01:07,440  
captured views of Hurricane Ida as the category\h  
4 storm neared the southeast Louisiana coast,\h\h

16  
00:01:07,440 --> 00:01:14,320  
where it eventually made landfall on Aug. 29,\h  
packing sustained winds of 150 miles per hour.\h\h

17  
00:01:14,320 --> 00:01:20,640  
More than 1 million customers reportedly lost\h  
power by midday on Aug. 30. Ida's landfall came\h\h

18  
00:01:20,640 --> 00:01:26,320  
exactly 16 years to the day after historic\h  
hurricane Katrina also hit this region.  
\h

19  
00:01:26,960 --> 00:01:31,120  
When Hurricane Ida made landfall\h  
on Aug. 29, the storm affected our\h\h

20

00:01:31,120 --> 00:01:35,360

Michoud Assembly Facility in New Orleans\h  
and Stennis Space Center in Mississippi.\h\h

21

00:01:35,920 --> 00:01:41,600

No injuries have been reported, but both locations\h  
sustained damage. Stennis was able to open for\h\h

22

00:01:41,600 --> 00:01:46,960

some operations while Michoud was closed with\h  
limited access to essential personnel only,\h\h

23

00:01:46,960 --> 00:01:51,440

as teams conducted detailed damage\h  
assessments and initial cleanup work.\h\h

24

00:01:51,440 --> 00:01:56,080

Michoud manufactures and assembles some of\h  
the largest parts of NASA's Space Launch\h\h

25

00:01:56,080 --> 00:02:02,000

System rocket and Orion spacecraft and Stennis\h  
is the agency's premier propulsion test complex.  
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26

00:02:02,720 --> 00:02:08,000

A SpaceX Dragon cargo spacecraft arrived at\h  
the International Space Station on Aug. 30,\h\h

27

00:02:08,000 --> 00:02:12,080

a day after launching from our Kennedy\h  
Space Center. The Dragon delivered more\h\h

28

00:02:12,080 --> 00:02:17,760

than 4,800 pounds of cargo – including about\h  
2,300 pounds of new science experiments\h\h

29

00:02:17,760 --> 00:02:23,120

that will look at how microgravity affects\h  
plant genetics, robotic assistants, bone tissue\h\h

30

00:02:23,120 --> 00:02:29,120

and astronaut vision among other phenomena.

NASA is asking interested American companies for\h\h

31

00:02:29,120 --> 00:02:35,120

more input about approaches, options and solutions\h

to providing a lunar terrain vehicle or LTV.\h\h

32

00:02:35,760 --> 00:02:42,160

The LTV– similar to the Apollo era Moon Buggy – is\h

an unenclosed rover that will transport astronauts\h\h

33

00:02:42,160 --> 00:02:47,680

wearing spacesuits around the lunar South Pole\h

during Artemis exploration surface missions to\h\h

34

00:02:47,680 --> 00:02:53,360

the Moon. The LTV will need to last at least\h

10 years to span multiple Artemis missions.

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35

00:02:54,160 --> 00:03:00,640

On Sept. 3, Russian cosmonauts Oleg Novitskiy\h

and Pyotr Dubrov of Roscosmos ventured outside\h\h

36

00:03:00,640 --> 00:03:06,080

the International Space Station on the first\h

of up to 11 spacewalks to prepare the new Nauka\h\h

37

00:03:06,080 --> 00:03:12,960

multipurpose laboratory module for operations in\h

space. Nauka arrived at the station on July 29,\h\h

38

00:03:12,960 --> 00:03:17,040

eight days after launching from the\h

Baikonur Cosmodrome in Kazakhstan.

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