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BOEING
STARLINER

12

13

1

00:00:00,940 --> 00:00:04,029

“Here’s some of the stories trending This Week at NASA!”

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00:00:04,029 --> 00:00:10,050

The SpaceX Dragon cargo spacecraft left the International Space Station on August 26 ...

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00:00:10,050 --> 00:00:12,549

“And we have release confirmed.”

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00:00:12,549 --> 00:00:18,460

The Dragon departed the station five weeks after delivering almost 5,000 pounds of supplies,

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00:00:18,460 --> 00:00:23,401

experiments and equipment to the orbital complex – including an international docking adapter

6

00:00:23,401 --> 00:00:28,610

for use by future American commercial crew spacecraft transporting astronauts to the

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00:00:28,610 --> 00:00:29,610

station.

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00:00:29,610 --> 00:00:33,840

The station’s Canadarm2 robotic arm was used to grapple the Dragon, move it away from

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00:00:33,840 --> 00:00:37,679

the ISS, and release it for its return trip to Earth.

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00:00:37,679 --> 00:00:42,469

The capsule is returning with about 3,000 pounds of cargo and experiments for researchers

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00:00:42,469 --> 00:00:45,479

and investigators.

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00:00:45,479 --> 00:00:51,190

NASA astronaut and ISS Expedition 48 Commander Jeff Williams set a new record for most cumulative

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00:00:51,190 --> 00:00:56,969

days in space by an American on August 24, when he passed former NASA astronaut Scott

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00:00:56,969 --> 00:00:59,949

Kelly's mark of 520 days in orbit.

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00:00:59,949 --> 00:01:04,600

This is Williams' fourth flight into space and third long duration mission on the station

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00:01:04,600 --> 00:01:07,690

– also a first for a NASA astronaut.

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00:01:07,690 --> 00:01:14,820

Williams is scheduled to return to Earth September 6 to close out his current six-month mission.

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00:01:14,820 --> 00:01:19,610

NASA hosted a news briefing on August 24 at the agency's Johnson Space Center to preview

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00:01:19,610 --> 00:01:25,000

the next U.S. Spacewalk scheduled to take place outside the International Space Station.

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00:01:25,000 --> 00:01:30,850

On September 1, NASA astronauts Kate Rubins and Jeff Williams will work on the port side

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00:01:30,850 --> 00:01:35,910

of the station's truss system to retract a thermal radiator that is part of the station's

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00:01:35,910 --> 00:01:41,210

cooling system, tighten struts on a solar array joint, and install the first of several

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00:01:41,210 --> 00:01:46,980

enhanced high-definition television cameras to monitor activities outside the station.

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00:01:46,980 --> 00:01:51,750

It will be their second spacewalk in less than two weeks – on August 19, Williams

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00:01:51,750 --> 00:01:56,530

and Rubins installed the first of the station's two international docking adapters (IDAs)

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00:01:56,530 --> 00:02:00,550

during a five-hour and 58-minute spacewalk.

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00:02:00,550 --> 00:02:05,920

A mock-up of Boeing's CST-100 Starliner spacecraft was recently dropped from a height

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00:02:05,920 --> 00:02:12,160

of about 30 feet at Langley Research Center's Landing and Impact Research Facility.

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00:02:12,160 --> 00:02:17,280

The company is conducting a series of tests to qualify the Starliner for ground landings

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00:02:17,280 --> 00:02:22,610

and to simulate conditions the actual spacecraft and crew inside might experience when touching

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00:02:22,610 --> 00:02:25,820

down on land – as mission plans call for.

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00:02:25,820 --> 00:02:30,670

NASA's Commercial Crew Program contracted with Boeing and SpaceX to develop the Starliner

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00:02:30,670 --> 00:02:36,090
and Crew Dragon spacecraft, respectively, to restore launches of U.S. astronauts from

34
00:02:36,090 --> 00:02:41,190
American soil to low-Earth orbit and to the station.

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00:02:41,190 --> 00:02:46,030
At NASA's Michoud Assembly Facility in New Orleans, Louisiana, final welding was recently

36
00:02:46,030 --> 00:02:51,510
completed on a liquid hydrogen tank test article for NASA's new Space Launch System (SLS)

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00:02:51,510 --> 00:02:52,510
rocket.

38
00:02:52,510 --> 00:02:56,260
The tank was moved from Michoud's Vertical Assembly Center and will be outfitted with

39
00:02:56,260 --> 00:03:01,690
sensors to record important data during future structural loads testing in the new, twin-tower

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00:03:01,690 --> 00:03:06,120
test stand currently under construction at the agency's Marshall Space Flight Center

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00:03:06,120 --> 00:03:07,940
in Huntsville, Alabama.

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00:03:07,940 --> 00:03:12,920
Those tests are designed to ensure the tank can withstand the incredible stresses of a

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00:03:12,920 --> 00:03:13,920

launch.

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00:03:13,920 --> 00:03:18,790

When completed, the SLS will have the power and payload capacity needed to carry crew

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00:03:18,790 --> 00:03:25,060

and cargo on exploration missions to deep space, including Mars.

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00:03:25,060 --> 00:03:29,910

To commemorate the 100th anniversary of the National Park Service on August 25, and its

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00:03:29,910 --> 00:03:35,599

stewardship of America's natural and historic treasures, NASA's Earth Observatory website

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00:03:35,599 --> 00:03:40,650

posted some of the best images taken from space of the monuments, scenic rivers, parks,

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00:03:40,650 --> 00:03:44,610

and historic sites under the care of the National Park Service.

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00:03:44,610 --> 00:03:49,410

NASA astronaut Jeff Williams also recorded a congratulatory video message from the space

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00:03:49,410 --> 00:03:52,069

station to mark the occasion.

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00:03:52,069 --> 00:03:56,120

NASA observes Earth from the vantage point of space to increase our understanding of

53

00:03:56,120 --> 00:04:01,370

our home planet, improve lives, and safeguard
our future.

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00:04:01,370 --> 00:04:03,320

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