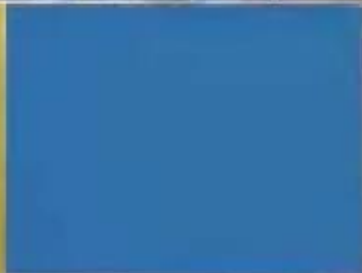


THE

20

Space station spacewalks



1

00:00:00,729 --> 00:00:05,120

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

2

00:00:05,120 --> 00:00:11,089

A Feb. 18 briefing at Johnson Space Center previewed a series of U.S. spacewalks to prepare

3

00:00:11,089 --> 00:00:15,759

the International Space Station for new docking ports that will allow future crews launched

4

00:00:15,759 --> 00:00:20,439

from Florida, on U.S. commercial spacecraft to dock to the station.

5

00:00:20,439 --> 00:00:26,289

On the first EVA, scheduled for no earlier than Feb. 21, NASA astronauts Barry Wilmore

6

00:00:26,289 --> 00:00:31,850

and Terry Virts will prepare cables and communications gear for the two new International Docking

7

00:00:31,850 --> 00:00:37,350

Adapters, built by Boeing and scheduled for delivery on a pair of SpaceX flights this

8

00:00:37,350 --> 00:00:38,350

year.

9

00:00:38,350 --> 00:00:42,890

The other spacewalks are slated for Feb. 25th, and March 1.

10

00:00:42,890 --> 00:00:49,280

ESA's fifth and final Automated Transfer Vehicle or ATV undocked from the space station

11

00:00:49,280 --> 00:00:54,929

Feb. 14 and disintegrated in Earth's atmosphere the following day while deorbiting.

12

00:00:54,929 --> 00:00:59,359

The European Space Agency's fleet of five ATVs began servicing the space station in

13

00:00:59,359 --> 00:01:05,440

the spring of 2008 – delivering approximately 34 tons of supplies since then.

14

00:01:05,440 --> 00:01:12,220

The station continues to be supplied by U.S., Japanese and Russian cargo spacecraft.

15

00:01:12,220 --> 00:01:16,250

In fact... a Russian Progress supply ship launched to the International Space Station

16

00:01:16,250 --> 00:01:21,500

on Feb. 17 from the Baikonur Cosmodrome in Kazakhstan – docking to the station's

17

00:01:21,500 --> 00:01:24,970

Zvezda service module almost six hours later.

18

00:01:24,970 --> 00:01:29,180

The Progress delivered three tons of food, fuel, supplies and experiment hardware to

19

00:01:29,180 --> 00:01:34,250

the six crew members aboard the orbital laboratory.

20

00:01:34,250 --> 00:01:39,510

A Feb. 18 media event at the Astrotech Space Operations facility in Titusville, Florida

21

00:01:39,510 --> 00:01:44,080

focused on NASA's upcoming Magnetospheric

Multiscale (MMS) mission, scheduled for launch

22

00:01:44,080 --> 00:01:47,630

March 12 from Cape Canaveral Air Force Station.

23

00:01:47,630 --> 00:01:52,280

The mission will study how magnetic fields around Earth connect and disconnect -- converting

24

00:01:52,280 --> 00:01:58,540

magnetic energy into particle energy via a mysterious process known as magnetic reconnection.

25

00:01:58,540 --> 00:02:03,360

It is a fundamental process that happens throughout the universe.

26

00:02:03,360 --> 00:02:08,759

In an effort to improve the safety, reliability and aerodynamic stability of the Orion crew

27

00:02:08,759 --> 00:02:14,500

module's main landing parachutes, a team of investigators led by NASA, recently tested

28

00:02:14,500 --> 00:02:20,640

13 different parachute configurations in one of the National Full Scale Aerodynamics Complex

29

00:02:20,640 --> 00:02:24,200

wind tunnels at Ames Research Center in California.

30

00:02:24,200 --> 00:02:29,060

Data from the wind tunnel testing and subsequent air drop tests will be used to help decide

31

00:02:29,060 --> 00:02:34,579

which parachute configuration will be used on future Orion missions that will send astronauts

32
00:02:34,579 --> 00:02:39,769
to deep space destinations and return them
home safely.

33
00:02:39,769 --> 00:02:45,510
Work is underway at Conrad Shipyard LLC in
Morgan City, Louisiana to retrofit NASA's

34
00:02:45,510 --> 00:02:46,829
Pegasus barge.

35
00:02:46,829 --> 00:02:51,939
The barge is being modified to ferry the massive
core stage of the Space Launch System rocket,

36
00:02:51,939 --> 00:02:55,930
which is being constructed at the Michoud
Assembly Facility in New Orleans.

37
00:02:55,930 --> 00:03:01,019
During the space shuttle era, Pegasus transported
shuttle external tanks and other hardware

38
00:03:01,019 --> 00:03:04,340
from Michoud to the Kennedy Space Center in
Florida.

39
00:03:04,340 --> 00:03:09,540
NASA's Office of Small Business Programs
and Stennis Space Center hosted a one-day

40
00:03:09,540 --> 00:03:15,170
Service-Disabled Veteran-Owned Small Business
Industry Day recently at the INFINITY Science

41
00:03:15,170 --> 00:03:16,569
Center, near Stennis.

42
00:03:16,569 --> 00:03:21,560

The event provided participants a chance to collect information on small business opportunities

43

00:03:21,560 --> 00:03:26,290

and to network with NASA personnel and contractor representatives.

44

00:03:26,290 --> 00:03:31,030

Glenn Delgado, Associate Administrator of NASA's Office of Small Business Programs,

45

00:03:31,030 --> 00:03:34,709

was on hand for an awards presentation.

46

00:03:34,709 --> 00:03:36,730

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