1
00:00:01,356 --> 00:00:03,646
Good morning, and welcome
to Mission Control Houston.

2
00:00:03,706 --> 00:00:06,906
We're inside the International
Space Station flight control room

3
00:00:08,046 --> 00:00:11,756
for today's ISS update on Wednesday, Aug.

4
00:00:11,756 --> 00:00:19,196
31. The team here is watching over systems
aboard the space station and following along

5
00:00:19,196 --> 00:00:23,756
with the activities of the Expedition
28 crew members who are working

6
00:00:23,756 --> 00:00:26,656
through the early afternoon of
their day onboard the station.

7
00:00:28,146 --> 00:00:32,036
The crew members are focusing on experiment work

8
00:00:32,036 --> 00:00:35,526
and maintenance activities
onboard the station today.

9
00:00:37,156 --> 00:00:43,656
NASA astronaut Mike Fossum and Japan Aerospace
Exploration Agency astronaut Satoshi Furukawa

10
00:00:43,866 --> 00:00:48,806
have been continuing their work with one of
the science experiments onboard the station.

11
00:00:48,806 --> 00:00:55,066

They began that work on Tuesday and spent much
of the day that day and today working on it.

12
00:00:55,656 --> 00:01:00,506
It is called the MARES experiment, which
stands for the Muscle Atrophy Research

13
00:01:00,546 --> 00:01:05,906
and Exercise System, which is a study of human
physiology to better understand the effects

14
00:01:05,906 --> 00:01:08,076
of microgravity on the muscular system.

15
00:01:08,746 --> 00:01:10,876
It's provided by the European Space Agency.

16
00:01:11,566 --> 00:01:16,056
The work that the astronauts have been doing
on it is not actually running the experiment

17
00:01:16,056 --> 00:01:19,006
with it but getting the hardware
ready for experiment work

18
00:01:19,006 --> 00:01:22,416
because when it was first
installed it didn't work properly.

19
00:01:22,916 --> 00:01:27,896
There were bolts that were damaged on
the frame of the experiment hardware,

20
00:01:28,396 --> 00:01:31,906
and so all of those bolts were replaced
yesterday by the two crew members.

21
00:01:32,386 --> 00:01:36,126
And then, today's work has involved
the electronics boxes inside

22
00:01:36,156 --> 00:01:40,266
because at initial setup, the
experiment did not power up correctly.

23
00:01:41,136 --> 00:01:47,336
So, with a little work in disassembling the
electronics and inspecting the connectors

24
00:01:47,336 --> 00:01:53,506
and reinstalling the electronics boxes to
insure proper alignment, the ground control team

25
00:01:53,506 --> 00:01:57,706
at the Payload Operations Integration
Center powered up the experiment

26
00:01:57,706 --> 00:01:59,836
and reported that all is working well.

27
00:02:00,456 --> 00:02:09,516
So, Fossum and Furukawa are going through to
secure all the cabling and close out their work

28
00:02:09,516 --> 00:02:13,586
with MARES so that the team
on the ground can work

29
00:02:14,276 --> 00:02:20,286
on scheduling an upcoming activity
for research with that hardware.

30
00:02:24,476 --> 00:02:31,446
Some other types of experiments onboard the
station today include observations of the Earth.

31
00:02:31,736 --> 00:02:40,126
A platform on the station flying at an altitude
of about 240 statute miles a good vantage point

32
00:02:40,126 --> 00:02:44,006
to look back at the Earth and
the changes that can be observed.

33
00:02:44,646 --> 00:02:49,566
The sites that the station will fly over
today are the Kwanza Basin in Africa,

34
00:02:50,346 --> 00:03:00,186
the Volga-Ural delta of water, Rio
de Janeiro in Brazil and a ridge

35
00:03:00,456 --> 00:03:02,826
in Colorado near the Rocky Mountains.

36
00:03:05,516 --> 00:03:17,046
The crew members also will take time on
Thursday morning to speak with reporters as part

37
00:03:17,046 --> 00:03:19,616
of the South Dakota Public Broadcasting System.

38
00:03:20,256 --> 00:03:25,376
So, tune into that on NASA Television at
9:40 a.m. Central time Thursday morning.

39
00:03:29,876 --> 00:03:36,896
Overnight, the ground control team finished up
some work with the Dextre robot on the outside

40
00:03:36,896 --> 00:03:43,996
of the space station, closing the container
lid that had housed the new circuit breaker box

41
00:03:43,996 --> 00:03:46,706
that was replaced on the
outside of the station by Dextre.

42
00:03:46,706 --> 00:03:51,056

That all commanded remotely by the flight
control team here in Mission Control,

43
00:03:51,736 --> 00:03:56,446
and they'll finish some work with the
robotics on the outside by stowing or placing

44
00:03:56,446 --> 00:04:00,986
that container on an external
stowage platform called ELC-4,