
TOM
MARSHBURN
EXPEDITION 35 FLIGHT ENGINEER

1
00:00:00,506 --> 00:00:06,546
[Music]

2
00:00:07,046 --> 00:00:08,426
>> Good morning, this is
Mission Control Houston.

3
00:00:08,426 --> 00:00:11,076
Welcome, and thank you for
joining us for today's edition

4
00:00:11,076 --> 00:00:14,196
of Space Station Live,
this Wednesday, April 17.

5
00:00:15,086 --> 00:00:16,466
Today Commander Hadfield

6
00:00:16,466 --> 00:00:18,546
and Flight Engineer
Marshburn continued

7
00:00:18,546 --> 00:00:21,296
to follow a special diet, and
logged their diet consumption

8
00:00:21,666 --> 00:00:25,406
as part of a couple
of human body studies,

9
00:00:25,406 --> 00:00:26,176
[inaudible] and energy.

10
00:00:26,666 --> 00:00:28,516
Hadfield also had to set

11
00:00:28,556 --> 00:00:32,226
up a continuous blood pressure
device, donned a leg/arm cuff,

12
00:00:32,226 --> 00:00:34,286
and worked with the
pulmonary function system,

13
00:00:34,626 --> 00:00:37,756
rebreeding protocol
for a periodic checkup

14
00:00:38,306 --> 00:00:40,296
for another human
body study that looks

15
00:00:40,296 --> 00:00:42,946
at long duration crew
members' pulmonary function.

16
00:00:43,806 --> 00:00:46,226
Hadfield also tended
to the ongoing research

17
00:00:46,276 --> 00:00:49,466
of binary colloidal
alloy test, or BCAT,

18
00:00:49,856 --> 00:00:52,806
checking out the camera system
that monitors its operations.

19
00:00:53,576 --> 00:00:57,186
He then also performed a water
analysis today using the total

20
00:00:57,186 --> 00:01:00,846
organic carbon analyzer at
the water processor assembly

21
00:01:00,846 --> 00:01:02,316
from the water recovery system.

22
00:01:02,686 --> 00:01:05,786
The system converts urine,
sweat, and condensation

23
00:01:05,856 --> 00:01:08,446
into drinkable water
for the crew.

24
00:01:08,446 --> 00:01:11,146
Commander Hadfield and
Flight Engineers Marshburn

25
00:01:11,146 --> 00:01:14,766
and Cassidy also take time
to talk to kindergarten

26
00:01:14,766 --> 00:01:18,026
through 12th grade
students and their teachers

27
00:01:18,026 --> 00:01:21,356
at the Fernbank Science
Center in Atlanta, Georgia,

28
00:01:21,906 --> 00:01:25,296
for Destination Station,
which is a traveling exhibit

29
00:01:25,296 --> 00:01:26,676
that showcases life, work,

30
00:01:26,676 --> 00:01:29,456
and science aboard
the Space Station.

31
00:01:29,726 --> 00:01:33,566
Today Marshburn worked much of
his morning loading software

32

00:01:33,946 --> 00:01:37,036
to an express rack that
provides science experiments

33
00:01:37,036 --> 00:01:39,926
with standard utilities,
such as power, data,

34
00:01:39,966 --> 00:01:41,946
cooling, fluid, and gasses.

35
00:01:42,346 --> 00:01:45,066
He then also loaded the
payload software to two

36
00:01:45,066 --> 00:01:47,716
of the onboard [inaudible]
incubators in the glacier,

37
00:01:48,076 --> 00:01:51,016
which are part of the
[inaudible] fleet of hardware

38
00:01:51,356 --> 00:01:53,156
that are compatible
with the express racks

39
00:01:53,156 --> 00:01:55,026
and store science
experiment samples

40
00:01:55,366 --> 00:01:56,626
that require refrigeration.

41
00:01:57,276 --> 00:01:59,146
And Flight Engineer
Chris Cassidy set

42
00:01:59,146 --> 00:02:01,446
up the robotics workstation

today to review

43
00:02:01,446 --> 00:02:04,676
and monitor today's walk off of
the Space Station robotic arm.

44
00:02:05,246 --> 00:02:07,416
The robotic ground controllers

45
00:02:07,416 --> 00:02:10,286
at Mission Control Houston will
maneuver the Canada arm too

46
00:02:10,636 --> 00:02:13,986
for a base change from the
power and data grapple fixture

47
00:02:14,366 --> 00:02:17,166
on the harmony module to
the mobile base system.

48
00:02:17,456 --> 00:02:19,756
And on the Russian side
of the house, Vinogradov

49
00:02:19,756 --> 00:02:23,176
and Romanenko donned their Orlan
space suits once again today

50
00:02:23,176 --> 00:02:25,546
for a suited dry
run dress rehearsal

51
00:02:25,546 --> 00:02:28,166
for the procedures they
will conduct during Friday's

52
00:02:28,166 --> 00:02:30,866
scheduled spacewalk just
outside the [inaudible] dock

53
00:02:30,866 --> 00:02:31,986
and compartment airlock.

54
00:02:32,316 --> 00:02:34,626
The spacewalk is
scheduled to begin Friday

55
00:02:34,626 --> 00:02:37,956
around 9:06 a.m. central
time, and is scheduled

56
00:02:37,956 --> 00:02:41,436
to last six hours, as
Vinogradov and Romanenko deploy

57
00:02:41,696 --> 00:02:45,486
and retrieve experiments on the
Russian segment of the station,

58
00:02:45,776 --> 00:02:49,496
and also replace a faulty
reflector device on the aft end

59
00:02:49,496 --> 00:02:52,356
of this [inaudible]
service module that is part

60
00:02:52,356 --> 00:02:55,606
of the navigational aid to be
used for the automated docking

61
00:02:55,606 --> 00:02:58,906
of the European space
agency's Albert Einstein,

62
00:02:58,906 --> 00:03:00,586
the automated transfer vehicle

63

00:03:00,586 --> 00:03:03,596
for a cargo ship
[inaudible] later in June.

64
00:03:04,676 --> 00:03:07,356
Meanwhile back on earth,
NASA is poised and ready

65
00:03:07,356 --> 00:03:11,116
for its test launch of the
orbital sciences Antares rocket

66
00:03:11,116 --> 00:03:13,316
from the Wallop Flight
Facility in Virginia.

67
00:03:13,996 --> 00:03:16,696
The launch is scheduled
at 4:00 p.m. central time.

68
00:03:17,346 --> 00:03:21,096
We'll have live coverage of that
launch that will set the stage

69
00:03:21,096 --> 00:03:22,696
for sending a new
commercial cargo ship