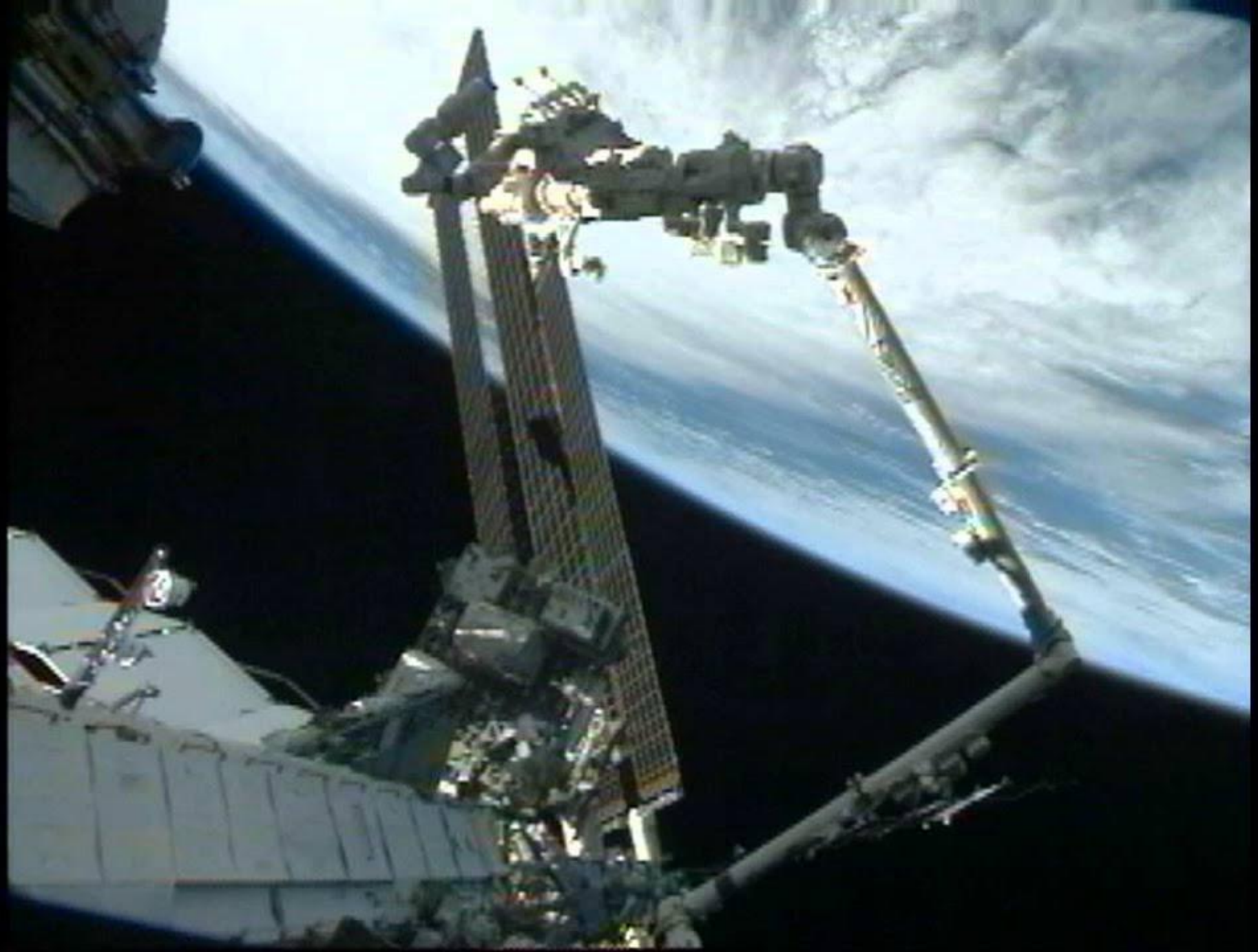

1
00:00:02,616 --> 00:00:05,736
Good day and welcome to
Mission Control Houston

2
00:00:05,736 --> 00:00:07,516
where a multidisciplinary team

3
00:00:07,516 --> 00:00:09,166
of flight controllers
is watching

4
00:00:09,166 --> 00:00:12,226
over the systems aboard the
International Space Station

5
00:00:12,226 --> 00:00:15,116
as the Expedition 34
crew continues its work.

6
00:00:15,876 --> 00:00:18,906
Today the crew has assembled
Robonaut for another set

7
00:00:18,906 --> 00:00:21,156
of on-orbit tests that
are looking at what kind

8
00:00:21,156 --> 00:00:23,466
of an assistant a
humanoid Robonaut might be

9
00:00:23,466 --> 00:00:24,696
for humans in space.

10
00:00:25,266 --> 00:00:28,146
They are also doing ultrasound
background noise testing.

11
00:00:28,146 --> 00:00:30,006

They continued work
started earlier in the week

12
00:00:30,046 --> 00:00:32,216
to characterize the sound
levels on the station

13
00:00:32,876 --> 00:00:35,186
and replacing the
manifold bottle

14
00:00:35,186 --> 00:00:37,106
on the Combustion
Integrated Rack

15
00:00:37,106 --> 00:00:39,436
which allows flame
experiments to go

16
00:00:39,436 --> 00:00:41,396
on aboard the international
outpost.

17
00:00:42,256 --> 00:00:44,786
Ford and Hadfield were the
prime crew members working

18
00:00:44,786 --> 00:00:46,886
with Robonaut taking
the humanoid Robonaut

19
00:00:46,886 --> 00:00:50,826
out of its sleeping compartment
and setting up a task board

20
00:00:50,826 --> 00:00:52,246
for upcoming remote commanding.

21
00:00:52,866 --> 00:00:54,836
Meanwhile engineers on

the ground today worked

22
00:00:54,836 --> 00:00:57,966
with new software that could
allow Robonaut to be controlled

23
00:00:57,966 --> 00:01:00,816
by virtual reality gear
on orbit in the future.

24
00:01:01,586 --> 00:01:03,376
And it was Ford who also worked

25
00:01:03,376 --> 00:01:04,966
with those ultrasound
measurements.

26
00:01:05,686 --> 00:01:08,516
Tom Marshburn meanwhile
worked on updates

27
00:01:08,516 --> 00:01:10,476
to the Automated
Payload Switch Upgrade

28
00:01:10,476 --> 00:01:13,786
that will help facilitate
remotely controlled research

29
00:01:13,786 --> 00:01:15,286
on the International
Space Station.

30
00:01:15,726 --> 00:01:18,516
Novitskiy, Tarelkin and
Romanenko did a variety

31
00:01:18,516 --> 00:01:22,076
of experiments as well as
station maintenance tasks.

32
00:01:22,146 --> 00:01:24,086
Novitskiy did air
filter cleaning.

33
00:01:24,086 --> 00:01:26,056
Tarelkin worked on
water purification

34
00:01:26,056 --> 00:01:27,146
and filtration maintenance

35
00:01:27,146 --> 00:01:28,836
in the Russian segments
of the station.

36
00:01:29,356 --> 00:01:31,636
And Romanenko installed
experiment hardware

37
00:01:31,636 --> 00:01:33,246
for the Kristall experiment.

38
00:01:33,876 --> 00:01:37,116
Later on today ground
controllers will be stowing the

39
00:01:37,116 --> 00:01:41,956
Dextre Special Purpose Dexterous
Manipulator which has been

40
00:01:41,956 --> 00:01:46,066
on the end of Canadarm2
for the past two weeks,

41
00:01:46,306 --> 00:01:50,316
last week for remote
refueling mission activities --

42

00:01:50,316 --> 00:01:53,136
so looking at how we might
use robotic spacecraft

43
00:01:53,136 --> 00:01:57,426
to go refuel spacecraft
that never were designed

44
00:01:57,426 --> 00:01:58,696
to be refueled in orbit.

45
00:01:59,206 --> 00:02:01,956
All those tests went very
well, a combined project

46
00:02:01,956 --> 00:02:05,976
of the Goddard Space Flight
Center of NASA up in Maryland

47
00:02:05,976 --> 00:02:07,716
and the Canadian Space Agency.

48
00:02:08,086 --> 00:02:11,326
Flight controllers
here in Mission Control

49
00:02:11,326 --> 00:02:14,476
and at the Canadian Space
Agency's Robotic Support

50
00:02:14,476 --> 00:02:17,756
Facility in St. Hubert,
Canada, worked together

51
00:02:17,756 --> 00:02:19,556
on those remote-controlled
activities.

52
00:02:20,516 --> 00:02:23,206
They also earlier in this

work moved around a couple

53
00:02:23,206 --> 00:02:26,356
of different orbital
replacement units on the outside

54
00:02:26,356 --> 00:02:31,256
of the space station moving
them from one rack to another

55
00:02:31,846 --> 00:02:35,006
and putting them in
the right position

56
00:02:35,006 --> 00:02:38,896
so the degraded components
are out of the way

57
00:02:38,896 --> 00:02:41,296
and that there are components
that may be needed soon

58
00:02:41,296 --> 00:02:44,116
for upcoming replacement
tasks are right at hand.

59
00:02:44,956 --> 00:02:50,156
Today the crew on the ground
is going to use the robotic arm

60
00:02:50,156 --> 00:02:54,056
to stow the Dextre manipulator
on the Mobile Base System.

61
00:02:55,786 --> 00:02:57,146
Meanwhile, at the
Baikonur Cosmodrome

62
00:02:57,146 --> 00:02:59,906
in Kazakhstan the work

is continuing to prepare

63
00:02:59,906 --> 00:03:04,466
for the next Russian cargo
craft Progress 50 for launch

64
00:03:04,466 --> 00:03:06,186
on February 11 to
the space station.

65
00:03:07,036 --> 00:03:10,126
Ahead of that the Progress
48 spacecraft which arrived

66
00:03:10,126 --> 00:03:12,656
at the station in
August will be undocking

67
00:03:12,656 --> 00:03:14,396
from the Pirs docking
compartment.

68
00:03:14,846 --> 00:03:17,576
That is coming up on
Saturday, February the 9th

69
00:03:17,676 --> 00:03:19,856
at 7:15 a.m. central time.

70
00:03:19,856 --> 00:03:23,106
We'll have live coverage of
that on NASA TV and after

71
00:03:23,106 --> 00:03:26,446
that it'll be deorbited
three hours later so it burns

72
00:03:26,446 --> 00:03:29,166
up into the atmosphere
and plunges

73
00:03:29,166 --> 00:03:31,806
to a destructive demise
in the Pacific Ocean.

74
00:03:32,096 --> 00:03:34,716
And that will clear Pirs for
the accelerated single day

75
00:03:34,716 --> 00:03:37,756
launch-to-docking of the
Progress 50 on March...

76
00:03:38,286 --> 00:03:41,396
excuse me on Monday,
February the 11th.

77
00:03:41,616 --> 00:03:46,086
Launch from Site 1 Launch Pad
where Yuri Gagarin launched

78
00:03:46,086 --> 00:03:47,786
at Baikonur is scheduled

79
00:03:47,866 --> 00:03:51,406
for 8:41 a.m. central
on February the 11th.

80
00:03:51,826 --> 00:03:55,186
And then four orbits
later it will be docking

81
00:03:55,186 --> 00:03:58,436
to the space station at
2:40 p.m. central time.

82
00:03:59,496 --> 00:04:02,506
A new Progress is going
to be carrying 1700 pounds

83
00:04:02,506 --> 00:04:05,716
of propellant, more than 100
pounds of oxygen and air,

84
00:04:06,276 --> 00:04:09,606
more than 900 pounds of
water and some 3000 pounds

85
00:04:09,606 --> 00:04:11,376
of spare parts, experiment
hardware

86
00:04:11,786 --> 00:04:13,486
and logistical equipment a total

87
00:04:13,486 --> 00:04:16,386
of almost 3 tons
of supplies in all.

88
00:04:16,846 --> 00:04:19,046
And that single day
launch-to-docking is

89
00:04:19,046 --> 00:04:21,426
in preparation for potential use

90
00:04:21,426 --> 00:04:24,416
of that single day
launch-to-docking for humans

91
00:04:24,756 --> 00:04:28,286
to minimize the stress on
crew members as they head

92
00:04:28,286 --> 00:04:29,766
up to the International
Space Station.

93
00:04:30,506 --> 00:04:33,696

Space station managers and
partners met this morning

94
00:04:33,696 --> 00:04:36,886
to review all the preparations
for the undocking of 48 Progress

95
00:04:36,886 --> 00:04:38,716
and the launch of Progress 50

96
00:04:39,116 --> 00:04:42,086
and so far no issues
have been identified