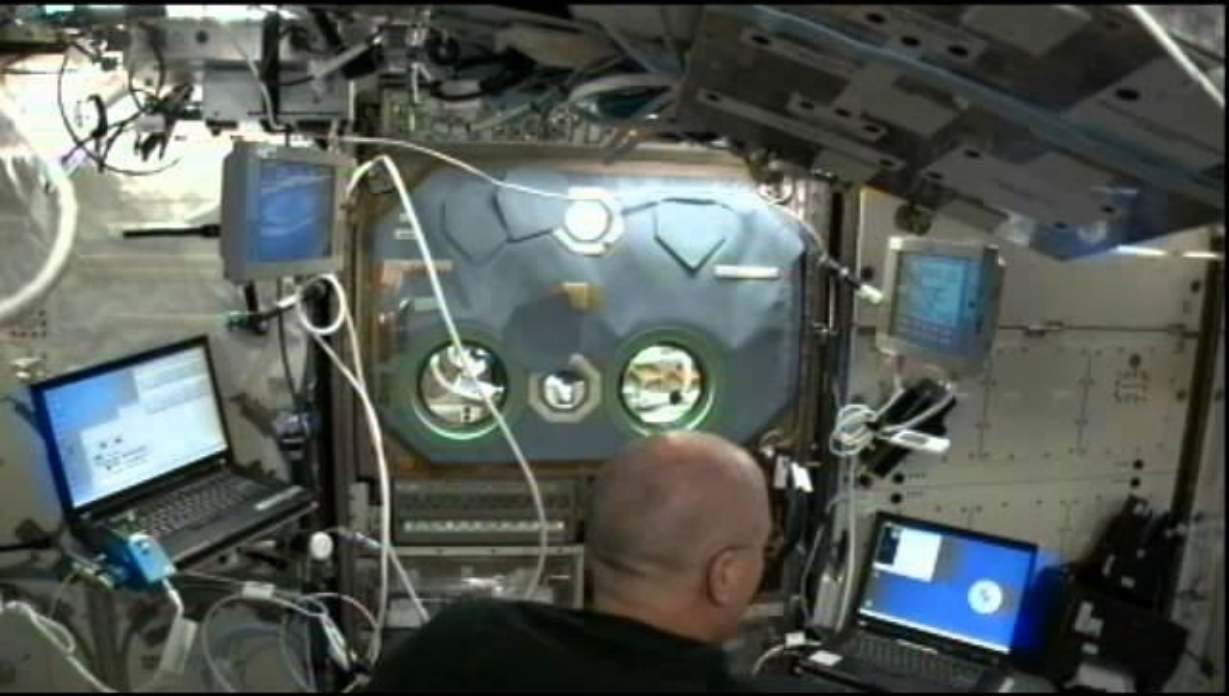

1
00:00:01,296 --> 00:00:03,376
Good day and welcome
to Mission Control,

2
00:00:03,376 --> 00:00:06,316
Houston where a flight
control team is watching

3
00:00:06,316 --> 00:00:10,166
over the Expedition 31 crew
aboard the International Space

4
00:00:10,166 --> 00:00:13,206
Station as they work their
way through a cornucopia

5
00:00:13,206 --> 00:00:14,946
of scientific research today.

6
00:00:16,476 --> 00:00:20,506
Commander Oleg Kononenko and
his Russian Gennady Padalka

7
00:00:20,506 --> 00:00:23,766
and Sergei Revin along with
NASA astronaut Don Pettit

8
00:00:23,766 --> 00:00:27,856
and Joe Acaba and European Space
Agency astronaut Andre Kuipers

9
00:00:28,276 --> 00:00:31,566
have been working on a variety
of different medical experiments

10
00:00:31,566 --> 00:00:35,076
and other technology
demonstration work today.

11

00:00:36,026 --> 00:00:38,296
Right now they are
putting up Robonaut

12
00:00:38,296 --> 00:00:42,886
after conducting some tests
with that humanoid robot.

13
00:00:43,326 --> 00:00:46,336
Ground controllers did
all of the work in terms

14
00:00:46,336 --> 00:00:47,996
of controlling the robot's hands

15
00:00:47,996 --> 00:00:51,136
and helping him manipulate
a special task board

16
00:00:51,136 --> 00:00:54,276
in the Destiny laboratory
module, but it's up to the crew

17
00:00:54,276 --> 00:00:59,796
to unstow and return Robonaut
back to his stowage place

18
00:01:00,046 --> 00:01:02,406
out of the way in the
Destiny laboratory module

19
00:01:02,406 --> 00:01:05,426
when he's not actively
being involved in tests.

20
00:01:05,426 --> 00:01:07,616
And so they're finishing
up work right now.

21
00:01:08,236 --> 00:01:12,026

Joe Acaba and Don Pettit also
spent some work today again

22
00:01:12,026 --> 00:01:16,196
with the Japan Aerospace
Exploration Agency thermal

23
00:01:16,196 --> 00:01:17,196
control system.

24
00:01:17,626 --> 00:01:20,426
They were doing some
troubleshooting testing

25
00:01:20,426 --> 00:01:22,276
of the electrical
connections for help

26
00:01:22,276 --> 00:01:26,196
that system keep
the Kibo laboratory

27
00:01:26,196 --> 00:01:28,286
in good shirtsleeve conditions.

28
00:01:28,996 --> 00:01:29,526
They finished

29
00:01:29,526 --> 00:01:32,266
up the troubleshooting
testing using voltmeters

30
00:01:32,266 --> 00:01:36,416
and multimeter testers
in cooperation

31
00:01:36,416 --> 00:01:40,636
with the control center in
Tsukuba, Japan, which is used

32
00:01:40,636 --> 00:01:45,346
to help maintain the activities
inside the Kibo laboratory.

33
00:01:46,136 --> 00:01:48,876
And then they rotated the
rack that's in the floor

34
00:01:48,876 --> 00:01:52,816
of that laboratory back
into place so that it's

35
00:01:52,816 --> 00:01:54,346
out of the way, then
they can continue

36
00:01:54,346 --> 00:01:58,476
to do their research activities
in the Kibo laboratory provided

37
00:01:58,476 --> 00:02:00,236
by the Japanese space agency.

38
00:02:01,216 --> 00:02:04,886
Otherwise, the crew members were
getting ready to say goodbye

39
00:02:04,886 --> 00:02:06,966
to three of their crewmates.

40
00:02:06,966 --> 00:02:09,796
Oleg Kononenko, Andre Kuipers
and Don Pettit are scheduled

41
00:02:09,796 --> 00:02:12,626
to undock their Soyuz spacecraft

42
00:02:12,626 --> 00:02:16,266
from the International

Space Station on June 30.

43
00:02:17,076 --> 00:02:21,706
That undocking is scheduled
for 11:48 p.m. Central time

44
00:02:22,386 --> 00:02:24,266
and will lead to a
landing in Kazakhstan

45
00:02:24,266 --> 00:02:29,026
at 3:14 a.m. Central time, which
is 2:14 p.m. Kazakhstan time.

46
00:02:29,536 --> 00:02:32,556
The change of command
ceremony for those activities,

47
00:02:33,166 --> 00:02:35,356
in which Kononenko
will hand over command

48
00:02:35,356 --> 00:02:38,686
of the space station to Gennady
Padalka remains scheduled

49
00:02:38,686 --> 00:02:42,986
for 6:35 p.m. Central
time on Friday.

50
00:02:42,986 --> 00:02:45,616
That's tomorrow, June 29,
and we'll have live coverage

51
00:02:45,616 --> 00:02:46,986
of that on NASA Television.

52
00:02:48,086 --> 00:02:51,076
Otherwise, all systems on the
space station working very well.

53
00:02:51,346 --> 00:02:56,486
The crew did have an opportunity
to shoot some photo and video

54
00:02:56,776 --> 00:03:01,236
of the large Colorado wildfires
that are raging Rocky Mountains.

55
00:03:02,026 --> 00:03:03,166
Earth observations, one

56
00:03:03,166 --> 00:03:07,516
of the very useful things that's
available in the unique platform

57
00:03:07,516 --> 00:03:09,046
of the International
Space Station.

58
00:03:09,046 --> 00:03:13,086
It allows space station crews
to help monitor the condition

59
00:03:13,086 --> 00:03:14,966
of the planet below,
whether it's relating

60
00:03:14,966 --> 00:03:18,986
to natural disasters such as
forest fires and hurricanes

61
00:03:18,986 --> 00:03:23,316
or also whether it is looking at
crop production and the change

62
00:03:23,316 --> 00:03:25,646
in the environmental systems

63

00:03:25,646 --> 00:03:28,206
and the water levels
throughout the planet.

64
00:03:29,086 --> 00:03:31,846
For more information about that
you can check out the Benefits

65
00:03:31,846 --> 00:03:33,236
for Humanity section

66
00:03:33,236 --> 00:03:35,366
on the International
Space Station section