1
00:00:00,506 --> 00:00:13,866
[Music]

2
00:00:14,366 --> 00:00:16,656
>> Good day from Mission
Control Houston and welcome

3
00:00:16,656 --> 00:00:17,826
to Space Station Live.

4
00:00:18,396 --> 00:00:19,406
You're looking now inside

5
00:00:19,406 --> 00:00:21,746
of the International Space
Station Flight Control Room,

6
00:00:22,056 --> 00:00:24,606
located at the Johnson Space
Center in Houston, Texas.

7
00:00:25,776 --> 00:00:28,636
Inside the room right now,
the Orbit 2 Team on console,

8
00:00:29,026 --> 00:00:31,686
taking a quick break while
we wait for satellite Hanover

9
00:00:31,756 --> 00:00:34,516
to regain communication with
the International Space Station;

10
00:00:34,996 --> 00:00:36,096
in the room a little bit later,

11
00:00:36,096 --> 00:00:38,576
you'll see they are
being led today

12
00:00:38,576 --> 00:00:40,556
by Flight Director
Tomas Gonzalez-Torres

13
00:00:41,006 --> 00:00:43,126
and at the Capcom position
this morning will be

14
00:00:43,126 --> 00:00:43,786
Mark [inaudible].

15
00:00:45,396 --> 00:00:48,096
The crew onboard the
International Space Station,

16
00:00:48,096 --> 00:00:52,466
Expedition 38, led by
Russian Cosmonaut Oleg Kotov;

17
00:00:53,146 --> 00:00:55,786
you can see the six man
International crew here;

18
00:00:56,626 --> 00:00:58,396
three of which are on
the left side there,

19
00:00:58,396 --> 00:01:01,196
the three newer crewmembers
to launch to the station.

20
00:01:01,196 --> 00:01:05,106
They are Russian Mikhail Tyurin,
NASA Astronaut Rick Mastracchio

21
00:01:05,106 --> 00:01:08,406
and Japanese Astronaut
Koichi Wakata and then

22
00:01:08,406 --> 00:01:11,266
on the right side we have
Russian Cosmonaut Sergey

23
00:01:11,266 --> 00:01:14,026
Ryazansky, Commander Oleg
Kotov there in the front

24
00:01:14,026 --> 00:01:14,986
and all the way on the right,

25
00:01:15,036 --> 00:01:17,036
another NASA Astronaut
Mike Hopkins.

26
00:01:18,636 --> 00:01:20,176
Onboard the International
Space Station,

27
00:01:20,176 --> 00:01:21,826
the crew starting
off a busy week;

28
00:01:22,196 --> 00:01:26,176
Commander Oleg Kotov began
his morning affixing a number

29
00:01:26,176 --> 00:01:29,646
of sensors to his body, as
he begins a 24 hour series

30
00:01:30,066 --> 00:01:32,826
of recording using an
electrocardiogram onboard the

31
00:01:32,826 --> 00:01:35,476
International Space Station;
the astronaut serving

32

00:01:35,476 --> 00:01:37,866
as test subjects
for a wide array

33
00:01:37,866 --> 00:01:41,486
of biological experiments during
their expedition spaceflights.

34
00:01:41,896 --> 00:01:45,126
He'll also be doing some
scheduled routine maintenance

35
00:01:45,126 --> 00:01:46,766
throughout the Russian
service module,

36
00:01:47,046 --> 00:01:48,966
also known as [inaudible]
working on some

37
00:01:48,966 --> 00:01:51,766
of the ventilation systems
and also the intercoms.

38
00:01:52,816 --> 00:01:56,046
Meanwhile, as fellow Russian
Cosmonaut Sergey Ryazansky will

39
00:01:56,046 --> 00:01:59,306
be doing some plug-in checkouts
throughout the entire Russian

40
00:01:59,306 --> 00:02:03,056
segment today, also doing some
acoustic sound level testing,

41
00:02:03,406 --> 00:02:07,196
as they test the noise levels
throughout various station

42

00:02:07,196 --> 00:02:09,896
structures to make sure that
they're at healthy levels

43
00:02:09,896 --> 00:02:12,576
for the crews onboard
with all the equipment

44
00:02:12,576 --> 00:02:16,486
and other devices running pretty
much nonstop up there for them.

45
00:02:17,186 --> 00:02:21,076
Meanwhile NASA Astronaut
Mike Hopkins is operating the

46
00:02:21,076 --> 00:02:23,406
station's ultrasound
system onboard today

47
00:02:23,956 --> 00:02:27,116
for an ongoing study
known as Cardio Ox,

48
00:02:27,426 --> 00:02:29,426
he'll be doing the
ultrasound scans

49
00:02:29,426 --> 00:02:35,046
on JAXA Astronaut Koichi
Wakata; Cardio Ox looking

50
00:02:35,046 --> 00:02:39,206
to provide a better
understanding for researchers

51
00:02:39,206 --> 00:02:40,116
down here on the ground

52
00:02:40,116 --> 00:02:42,876

of any space related
cardiovascular disease risk.

53
00:02:43,316 --> 00:02:47,316
The study looking to identify
of the potential indicators

54
00:02:47,316 --> 00:02:49,926
of increased health
risks both during

55
00:02:49,926 --> 00:02:51,906
and after the long
duration spaceflight

56
00:02:52,026 --> 00:02:53,636
for all of these astronauts.

57
00:02:54,206 --> 00:02:56,826
Hopkins also today
working on the waste

58
00:02:56,826 --> 00:03:01,016
and hygiene compartment; he
was replacing an air filter.

59
00:03:01,116 --> 00:03:03,056
You can see a quick
look at that here.

60
00:03:03,436 --> 00:03:05,716
The air filter had been
passed its lifetime

61
00:03:05,716 --> 00:03:08,686
so he was doing a quick
removal and replacement work

62
00:03:08,686 --> 00:03:12,506
on that today and then towards

the end of his day today,

63
00:03:12,506 --> 00:03:14,126
he'll be doing some leak checks

64
00:03:14,126 --> 00:03:16,566
on the Japanese experiment
module's airlock,

65
00:03:16,966 --> 00:03:19,726
following a depressurization
by flight controllers

66
00:03:19,726 --> 00:03:22,536
and Japan Scuba Flight
Control Center;

67
00:03:23,896 --> 00:03:27,626
that airlock being depressurized
in [inaudible] in advance

68
00:03:27,626 --> 00:03:29,626
of tomorrow's deployment
of three

69
00:03:29,626 --> 00:03:32,726
of the four cube sat
nano-satellites onboard the

70
00:03:32,726 --> 00:03:35,386
International Space Station;
again, all that taking

71
00:03:35,386 --> 00:03:37,236
out of the Japanese
experiment module.

72
00:03:38,596 --> 00:03:42,706
Third Russian Cosmonaut Mikhail
Tyurin doing some software

73
00:03:42,706 --> 00:03:45,286
upgrades on various Russian
segment computers today,

74
00:03:45,726 --> 00:03:48,386
also doing a checkout
of the [inaudible]

75
00:03:48,386 --> 00:03:49,936
and relocation simulator.

76
00:03:50,246 --> 00:03:53,906
The [inaudible] teleoperator
control module panel you can see

77
00:03:53,906 --> 00:03:57,846
there used for manual
control of visiting vehicles

78
00:03:57,846 --> 00:04:01,426
like the Progress, giving the
cosmonauts onboard the ability

79
00:04:01,426 --> 00:04:05,356
to intervene and take manual
control should their automated

80
00:04:05,356 --> 00:04:08,536
course system get any
hiccups or fail for any reason

81
00:04:08,946 --> 00:04:12,986
so Tyurin doing a checkout of
the simulator located onboard,

82
00:04:13,136 --> 00:04:16,216
giving the cosmonauts the
ability to hone their skills

83
00:04:16,216 --> 00:04:18,816
and prepare for any
visiting vehicles.

84
00:04:19,366 --> 00:04:23,106
Meanwhile NASA Astronaut Rick
Mastracchio right upon waking

85
00:04:23,106 --> 00:04:26,266
up today, took a few saliva
samples and stored them inside

86
00:04:26,266 --> 00:04:29,146
of [inaudible] the minus 80
degree laboratory freezer,

87
00:04:29,146 --> 00:04:30,086
onboard the station.

88
00:04:30,696 --> 00:04:33,816
He'll also be working
with some of the EVA

89
00:04:33,816 --> 00:04:37,576
or spacewalking tools today
installing a torque analyzer kit

90
00:04:37,846 --> 00:04:40,966
on what's known as the pistol
grip tool, kind of the drill

91
00:04:40,966 --> 00:04:43,516
that the astronauts
use their spacewalks.

92
00:04:43,856 --> 00:04:46,656
He'll be installing that
analyzer kit which is able

93

00:04:46,656 --> 00:04:48,876
to gather data for
further analysis

94
00:04:48,876 --> 00:04:49,896
down here on the ground.

95
00:04:51,206 --> 00:04:55,466
The final Expedition 38
crewmember Koichi Wakata, again,

96
00:04:55,466 --> 00:04:59,106
served as a subject for
that Cardio Ox scan earlier

97
00:04:59,106 --> 00:04:59,786
this morning.

98
00:05:00,216 --> 00:05:05,146
The scan being conducted
by Mike Hopkins;

99
00:05:05,146 --> 00:05:08,146
you can see Wakata inside of
the Destiny Laboratory here,

100
00:05:08,876 --> 00:05:11,736
setting up for that
scan earlier today.

101
00:05:12,276 --> 00:05:15,366
He'll also be setting up and
performing a few checkouts

102
00:05:15,366 --> 00:05:18,356
on a new 4KHD camera
that's been flown

103
00:05:18,356 --> 00:05:19,776
to the International

Space Station;

104
00:05:20,156 --> 00:05:23,126
it will be used throughout
Wakata's time onboard and beyond

105
00:05:23,476 --> 00:05:26,306
to record super high
resolution earth views

106
00:05:26,566 --> 00:05:28,606
and also various
celestial scenes

107
00:05:28,726 --> 00:05:32,086
for the Japanese Aerospace
Exploration Agency,

108
00:05:32,516 --> 00:05:35,296
among those including
the [inaudible] Transit,