
EXPEDITION 34
ROMAN ROMANENKO
Flight Engineer
R. ROMANENKO

1
00:00:01,196 --> 00:00:03,876
Good morning from Mission
Control Houston and welcome

2
00:00:03,876 --> 00:00:06,036
to today's International
Space Station Update.

3
00:00:06,776 --> 00:00:09,356
You're joining us now inside
of the Flight Control Room here

4
00:00:09,356 --> 00:00:11,316
at the Johnson Space
Center in Houston, Texas,

5
00:00:11,836 --> 00:00:14,456
looking down as the Orbit Two
team is manning their consoles

6
00:00:14,826 --> 00:00:17,176
monitoring all the systems
onboard the International

7
00:00:17,176 --> 00:00:17,876
Space Station.

8
00:00:18,516 --> 00:00:20,206
Today's team is once
again being led

9
00:00:20,206 --> 00:00:23,056
by veteran Flight Director
Paul Dye, you see there

10
00:00:23,056 --> 00:00:25,116
in the gray, the
light gray vest.

11

00:00:25,466 --> 00:00:28,446
All the teams here in Mission
Control today following the

12
00:00:28,446 --> 00:00:30,856
best-dressed code
paying homage to one

13
00:00:30,856 --> 00:00:33,606
of the great flight directors
in NASA history Gene Krantz.

14
00:00:35,356 --> 00:00:38,656
Beside him is Capcom David
Saint-Jacques serving

15
00:00:38,656 --> 00:00:41,286
as the communication link
between all of our teams here

16
00:00:41,286 --> 00:00:44,566
on the ground and the astronauts
up in space and he'll continue

17
00:00:44,566 --> 00:00:49,006
to serve all throughout
this Orbit Two time period.

18
00:00:49,296 --> 00:00:52,246
And then meanwhile our
astronauts onboard are the crew

19
00:00:52,246 --> 00:00:53,556
of Expedition 34.

20
00:00:54,286 --> 00:00:59,326
They're being led by NASA
astronaut Kevin Ford early

21
00:00:59,326 --> 00:01:00,796

on his second flight into space.

22
00:01:00,796 --> 00:01:02,316
He's there in the
front row on the left.

23
00:01:02,686 --> 00:01:05,166
Behind him two Russian
cosmonauts Oleg Novitskiy

24
00:01:05,166 --> 00:01:07,496
and Evgeny Tarelkin, the
two rookie space fliers

25
00:01:07,496 --> 00:01:09,416
on their first flight
into space.

26
00:01:09,976 --> 00:01:11,576
And over there on
the right rounding

27
00:01:11,576 --> 00:01:14,136
out the six-man crew is
another Russian cosmonaut Roman

28
00:01:14,136 --> 00:01:17,996
Romanenko, Canadian Space Agency
astronaut Chris Hadfield there

29
00:01:17,996 --> 00:01:19,866
in the front and
finally all the way

30
00:01:19,866 --> 00:01:22,476
on the right there second
NASA astronaut Tom Marshburn.

31
00:01:23,796 --> 00:01:26,086
Pretty busy day for these

astronauts onboard the

32
00:01:26,086 --> 00:01:27,596
International Space
Station today.

33
00:01:28,256 --> 00:01:31,136
A couple of maintenance
activities and also quite a bit

34
00:01:31,136 --> 00:01:34,406
of robotics activity taking
place onboard starting off

35
00:01:34,406 --> 00:01:35,726
with Commander Kevin Ford

36
00:01:35,726 --> 00:01:38,256
who a little bit earlier
this morning was doing some

37
00:01:38,306 --> 00:01:39,226
in-flight maintenance.

38
00:01:39,226 --> 00:01:42,806
He was going through the U.S.
laboratory onboard the station

39
00:01:42,806 --> 00:01:44,816
and inspecting some of
the windows throughout.

40
00:01:45,586 --> 00:01:46,726
Following that he moved

41
00:01:46,726 --> 00:01:49,696
on to doing an ozone
sensor check inside

42

00:01:49,696 --> 00:01:52,206
of the BioLab Glovebox
before moving off

43
00:01:52,206 --> 00:01:55,126
to his major activity today
and that's going to be focusing

44
00:01:55,126 --> 00:01:56,716
on the station's robotic arm.

45
00:01:57,216 --> 00:02:01,396
He and his fellow crew members
reviewed all of the DOUG

46
00:02:01,396 --> 00:02:02,796
and robotics procedures.

47
00:02:02,846 --> 00:02:05,376
DOUG is the interface
used to receive

48
00:02:05,376 --> 00:02:09,616
and display real-time station
arm joint angle telemetry

49
00:02:09,616 --> 00:02:12,266
on to a laptop onboard
the station.

50
00:02:12,926 --> 00:02:13,966
Following all that review,

51
00:02:13,966 --> 00:02:15,836
which they completed
a short while ago,

52
00:02:15,836 --> 00:02:18,876
they'll be doing a walk-off
and getting their hands

53
00:02:18,876 --> 00:02:20,936
on for the first
time to maneuver

54
00:02:20,936 --> 00:02:22,946
that robotic arm around.

55
00:02:23,886 --> 00:02:26,616
Moving on, our Russian cosmonaut
Oleg Novitskiy was continuing

56
00:02:26,616 --> 00:02:28,836
some work he was
doing yesterday inside

57
00:02:28,836 --> 00:02:31,216
of the Russian service
module, also known as Zvezda.

58
00:02:31,746 --> 00:02:33,146
He's been doing a few repairs

59
00:02:33,146 --> 00:02:35,686
to the interior installing
some overlay plates.

60
00:02:36,306 --> 00:02:39,256
Following that he took
some time to participate

61
00:02:39,256 --> 00:02:40,596
in the Uragan experiment.

62
00:02:40,936 --> 00:02:43,786
It's an ongoing Russian
investigation

63
00:02:43,786 --> 00:02:46,426

into developing more
methods for natural

64
00:02:46,426 --> 00:02:48,036
and man-made disaster
monitoring.

65
00:02:48,376 --> 00:02:50,816
He was doing some
observations of his own

66
00:02:51,346 --> 00:02:52,576
and quite a bit of photography.

67
00:02:54,296 --> 00:02:57,196
Another Russian cosmonaut Evgeny
Tarelkin meanwhile onboard the

68
00:02:57,196 --> 00:02:59,406
station was doing some
routine maintenance

69
00:02:59,406 --> 00:03:01,836
on the comm subsystem
throughout the Russian segment.

70
00:03:02,216 --> 00:03:05,776
He was assisted by this, in
this by Novitskiy throughout

71
00:03:06,126 --> 00:03:07,446
and also teams on the ground.

72
00:03:07,956 --> 00:03:11,536
A little bit after that
he went on to study,

73
00:03:12,626 --> 00:03:15,526
participate in a study of
the cardiovascular system

74
00:03:15,756 --> 00:03:18,736
under specifically graded loads.

75
00:03:18,886 --> 00:03:21,856
They were using the VELO
onboard the station that's one

76
00:03:21,856 --> 00:03:23,476
of the stationary bicycles.

77
00:03:23,476 --> 00:03:25,536
It's located over in
the Russian segment.

78
00:03:25,796 --> 00:03:29,226
Our third Russian cosmonaut
Roman Romanenko was continuing

79
00:03:29,226 --> 00:03:31,216
some work on the Plasma
Crystal experiment

80
00:03:31,586 --> 00:03:33,346
which looks small dust particles

81
00:03:33,346 --> 00:03:37,996
and other colloid shaped
particles suspended

82
00:03:37,996 --> 00:03:40,486
in fluids onboard the
International Space Station.

83
00:03:41,106 --> 00:03:44,536
He's also involved in some cargo
operations taking some items

84
00:03:44,536 --> 00:03:48,226

out of the 48 Progress
vehicle currently docked

85
00:03:48,226 --> 00:03:51,786
to the Earth-facing side of
the International Space Station

86
00:03:51,896 --> 00:03:55,636
to the full station structure
there with two Progress

87
00:03:55,636 --> 00:03:58,316
and two crewed Soyuz
vehicles currently docked.

88
00:03:59,006 --> 00:04:01,126
So he was transferring
a few items in and out

89
00:04:01,126 --> 00:04:02,836
of that vehicle before moving

90
00:04:02,836 --> 00:04:05,046
onto doing some routine
maintenance

91
00:04:05,186 --> 00:04:07,076
on the Russian segment's
Elektron system

92
00:04:07,476 --> 00:04:09,836
which helps generate
some of the oxygen

93
00:04:10,176 --> 00:04:11,406
for the station atmosphere.

94
00:04:12,916 --> 00:04:16,546
Meanwhile, our Canadian
astronaut Chris Hadfield will be

95
00:04:16,546 --> 00:04:22,996
participating in all those
robotic arm operations today,

96
00:04:23,346 --> 00:04:25,296
also doing another run

97
00:04:25,296 --> 00:04:27,746
of the InSpace-3
experiment this morning.

98
00:04:28,286 --> 00:04:31,026
InSpace-3 looking to obtain data

99
00:04:31,026 --> 00:04:33,836
on different fluids containing
ellipsoid shaped particles

100
00:04:34,236 --> 00:04:36,216
that change their physical
properties of the fluids

101
00:04:36,216 --> 00:04:38,776
that they're suspended
in when subjected

102
00:04:38,776 --> 00:04:41,236
to varying strength
of magnetic fields.

103
00:04:41,856 --> 00:04:45,076
Then just little bit later this
morning he'll be participating

104
00:04:45,076 --> 00:04:47,306
in a public affairs
event talking

105

00:04:47,306 --> 00:04:50,076
to Canadian media
across that country.

106
00:04:50,496 --> 00:04:53,566
That'll be immediately
following today's ISS update

107
00:04:53,566 --> 00:04:57,306
at 11:15 a.m. Central
time, 12:15 p.m. Eastern.

108
00:04:58,656 --> 00:05:03,306
Our final Expedition 34 crew
member Tom Marshburn spent a few

109
00:05:03,306 --> 00:05:06,726
hours today inside of the
Quest airlock working on some

110
00:05:06,726 --> 00:05:09,296
of the EVA or extravehicular
activity tools.

111
00:05:09,296 --> 00:05:11,706
He was doing some
maintenance on the PGT,

112
00:05:11,706 --> 00:05:14,806
or the pistol grip tool, which
is more or less the drill

113
00:05:14,806 --> 00:05:18,126
that these astronauts use when
they're outside of the station.

114
00:05:18,126 --> 00:05:22,126
You can see Marshburn inside
of Quest doing some maintenance

115

00:05:22,126 --> 00:05:23,836
on that pistol grip
tool right here.

116
00:05:24,376 --> 00:05:28,386
Aside from that work today he'll
also be joining Chris Hadfield

117
00:05:28,386 --> 00:05:30,666
and Commander Ford in all

118
00:05:30,666 --> 00:05:32,606
of the robotics activities
getting a chance

119
00:05:32,606 --> 00:05:34,816
to get his hands on
that robotic arm.

120
00:05:34,816 --> 00:05:38,556
You can see it here as
they do some walk-offs

121
00:05:38,556 --> 00:05:40,416
and have finished reviewing all