1
00:00:00,836 --> 00:00:01,706
Commentator [Amiko Kauderer]: Good morning.

2
00:00:01,706 --> 00:00:03,066
This is Mission Control Houston.

3
00:00:03,066 --> 00:00:07,396
Thank you for joining us for today's
ISS Update this Tuesday, February 7.

4
00:00:07,936 --> 00:00:11,916
We're now looking at a live view inside the
International Space Station Flight Control Room

5
00:00:11,916 --> 00:00:15,956
where the Orbit 2 team, seen here, has been
monitoring the systems aboard the station

6
00:00:16,326 --> 00:00:20,036
and supporting the day's activities
of the Expedition 30 crew members.

7
00:00:20,976 --> 00:00:25,616
Also, here in the station flight control room
today we have special guest astronaut Mike

8
00:00:25,676 --> 00:00:29,506
Fossum joining us to talk about current
station actvities and share some

9
00:00:29,506 --> 00:00:32,106
of his experiences aboard the complex.

10
00:00:32,416 --> 00:00:36,386
Fossum served as the space station
Expedition 29 commander and spent a total

11
00:00:36,386 --> 00:00:39,756
of 167 days aboard the orbiting facility.

12
00:00:40,066 --> 00:00:40,846
Welcome Mike!

13
00:00:40,846 --> 00:00:42,006
Thank you for joining us today.

14
00:00:42,286 --> 00:00:43,636
Mike Fossum: Hey, you're welcome Amiko.

15
00:00:43,766 --> 00:00:44,606
Glad to be here.

16
00:00:45,566 --> 00:00:50,016
Amiko: Leading the team here in the station
flight control room today is Flight Director Ron

17
00:00:50,016 --> 00:00:54,886
Spencer, seen here on the right-hand side of
your screen, with Robert Hanley there next

18
00:00:54,886 --> 00:00:58,806
to him serving as Capcom relaying
all ground messages up to the crew.

19
00:00:58,946 --> 00:01:02,156
So Mike it was the undocking
of your Soyuz vehicle

20
00:01:02,156 --> 00:01:05,146
that signaled the start of
this current Expedition 30.

21
00:01:05,186 --> 00:01:07,016
Correct? Mike: That's right.

22
00:01:07,186 --> 00:01:10,196
I spent a short bit of time with
that part of the Expedition crew.

23
00:01:10,196 --> 00:01:13,816
Really just a total of six days including
the day they arrived and we left.

24
00:01:14,386 --> 00:01:18,486
And that part of the crew was Dan Burbank,
Anton Shkaplerov and Anatoly Ivanishin.

25
00:01:18,976 --> 00:01:23,916
Amiko: So the six crew members currently
aboard the station include NASA astronaut

26
00:01:23,916 --> 00:01:26,816
and commander of the complex
Dan Burbank and Flight Engineers

27
00:01:26,816 --> 00:01:30,616
and cosmonauts Anton Shkaplerov,
Anatoly Ivanishin,

28
00:01:31,006 --> 00:01:35,186
as well as the NASA astronaut Don
Pettit, cosmonaut Oleg Kononenko

29
00:01:35,186 --> 00:01:38,536
and European Space Agency
astronaut Andre Kuipers.

30
00:01:39,686 --> 00:01:44,236
Mike: My short term crew mates Commander Burbank,
Shkaplerov and Ivanishin launched

31
00:01:44,306 --> 00:01:46,816
to the orbiting complex aboard
their Soyuz spacecraft

32
00:01:46,816 --> 00:01:49,536
as the Expedition 29 crew last November.

33
00:01:50,246 --> 00:01:52,536
They docked to the Poisk module
of the space station a few days

34
00:01:52,536 --> 00:01:54,466
after their launch on November 16.

35
00:01:55,206 --> 00:01:58,046
Burbank assumed command of
the station when I handed

36
00:01:58,046 --> 00:02:00,566
over to him only a few days after they arrived.

37
00:02:00,566 --> 00:02:02,346
Amiko: Hey, thanks Mike.

38
00:02:02,346 --> 00:02:07,676
And today he and his crew members complete
their 87th consecutive day in space.

39
00:02:07,726 --> 00:02:12,766
Meanwhile, Pettit, Kononenko and
Kuipers launched aboard Soyuz TMA-03M

40
00:02:12,766 --> 00:02:16,226
from the Baikonur Cosmodrome
in Kazakhstan on December 21

41
00:02:16,606 --> 00:02:21,156
when they began their two day chase on-orbit
to catch up to the International Space Station.

42
00:02:21,556 --> 00:02:25,986
With their Soyuz docked to the Rassvet module
they will complete their 49th consecutive day

43
00:02:25,986 --> 00:02:26,896
in space today.

44
00:02:27,556 --> 00:02:31,036
The space station with its
crew aboard is now flying

45
00:02:31,036 --> 00:02:35,466
at an altitude of about 240 statute miles.

46
00:02:37,666 --> 00:02:40,446
The orbiting facility is making a night pass

47
00:02:40,446 --> 00:02:46,196
on an east-southeastern track coming
now across the north Pacific Ocean.

48
00:02:46,796 --> 00:02:52,156
The Expedition 30 continues to tend to a variety
of science experiments that take advantage

49
00:02:52,156 --> 00:02:56,256
of their microgravity environment, perform
regular maintenance to their orbital home

50
00:02:56,506 --> 00:03:00,346
and continue preparations for next
week's spacewalk outside the complex.

51
00:03:00,426 --> 00:03:04,256
So, Mike what's on tap today aboard the station?

52
00:03:04,646 --> 00:03:05,066
Mike: Hey.

53
00:03:05,066 --> 00:03:08,366
It's a typical busy day onboard
the station with everybody kind

54
00:03:08,366 --> 00:03:09,716
of working in different directions.

55
00:03:10,196 --> 00:03:12,906
Station Commander Dan Burbank
is setting up two cameras

56
00:03:12,906 --> 00:03:16,396
for the upcoming Russian
spacewalk set for February 16.

57
00:03:16,966 --> 00:03:21,126
Dan is also transferring U.S.
spacewalk tools to the Russian segment

58
00:03:21,126 --> 00:03:22,946
that they will use during next week's spacewalk.

59
00:03:24,316 --> 00:03:26,816
Meanwhile, Anatoly Ivanishin
is transferring water

60
00:03:26,816 --> 00:03:31,366
from the newly arrived Progress supply
ship to a water tank aboard the station.

61
00:03:32,086 --> 00:03:37,066
Andre Kuipers is retrieving biological
samples provided for the SOLO study

62
00:03:37,066 --> 00:03:42,236
from the Minus Eighty Degree Laboratory Freezer,
or MELFI, to store it at room temperature.

63
00:03:42,806 --> 00:03:46,496
Also, for the Sodium Loading
in Microgravity study, or SOLO,

64
00:03:46,966 --> 00:03:50,756
he'll log his daily high-salt
diet as the study looks at fluid

65
00:03:50,756 --> 00:03:53,036
and salt retention in the
body during spaceflight.

66
00:03:53,876 --> 00:03:58,336
Flight Engineer Don Pettit is setting
up and performing fluid test runs

67
00:03:58,366 --> 00:04:03,946
of the Capillary Flow experiments,
shown here with the red fluid.

68
00:04:04,426 --> 00:04:08,136
He'll later spend some time taking
down the hardware and stowing it away.

69
00:04:08,466 --> 00:04:10,546
Amiko: Thanks Mike.

70
00:04:10,676 --> 00:04:13,276
And earlier this morning aboard
the International Space Station,

71
00:04:13,276 --> 00:04:16,996
Commander Dan Burbank restowed items
that were removed during maintenance work

72
00:04:16,996 --> 00:04:19,706
to the Advanced Recycle Filter
Tank Assembly yesterday.

73
00:04:20,216 --> 00:04:23,096
Burbank then removed and
replaced a Urine Receptacle

74
00:04:23,096 --> 00:04:25,196
of an onboard Waste and Hygiene Compartment.

75
00:04:25,596 --> 00:04:30,366

He also conducted a nitrogen pressure check of
three Minus Eighty Degree Laboratory Freezers

76
00:04:30,366 --> 00:04:33,916
that store biological and science
samples that require refrigeration

77
00:04:33,916 --> 00:04:36,156
until they can be returned
to Earth for analysis.

78
00:04:37,046 --> 00:04:40,976
Anton Shkaplerov and Oleg Kononenko
worked together to activate

79
00:04:40,976 --> 00:04:43,476
and inspect the Russian Orlan spacesuits.

80
00:04:43,536 --> 00:04:47,456
They also conducted a checkout of the
spacesuit interface unit of the two spacesuits

81
00:04:47,456 --> 00:04:50,256
in preparation for their spacewalk next week.

82
00:04:51,086 --> 00:04:54,786
Anatoly Ivanishin performed
regular preventative maintenance

83
00:04:54,786 --> 00:04:57,946
to the service module's ventilation
system and the SOZH

84
00:04:57,946 --> 00:05:02,006
which also the Russian life support system.

85
00:05:02,006 --> 00:05:07,776
Andre Kuipers conducted a VO2Max
measurement as part of a study

86
00:05:07,806 --> 00:05:12,306
that measures the aerobic capacity
of a crew member while on orbit.

87
00:05:12,746 --> 00:05:17,316
He also spent some time unpacking
items from the Progress 46 supply ship.

88
00:05:18,466 --> 00:05:23,006
Flight Engineer Don Pettit configured
the bowling ball-sized satellites used

89
00:05:23,006 --> 00:05:28,726
in the Synchronize, Position, Hold, Engage
and Reorient Experiment that tests algorithms

90
00:05:28,726 --> 00:05:32,426
for spacecraft performing autonomous
rendezvous and docking maneuvers.

91
00:05:33,466 --> 00:05:40,496
Later today, Commander Burbank will provide
Shkaplerov and Kononenko a tutorial of the DOUG,

92
00:05:40,496 --> 00:05:47,056
or Dynamic Onboard Ubiquitous Graphics, a visual
simulation software used for spacewalk planning

93
00:05:47,096 --> 00:05:50,536
and review of the station
robotic arm operations.