1
00:00:01,666 --> 00:00:04,056
Good morning, this is mission control Houston.

2
00:00:04,206 --> 00:00:08,386
Thank you for joining us for today's
ISS update this Wednesday, December 21.

3
00:00:09,976 --> 00:00:14,896
A successful Soyuz launch makes headline news
for the International Space Station today.

4
00:00:15,256 --> 00:00:22,486
Earlier this morning at 7:16 a.m. Central Time
the Soyuz TMA-03M carrying it crew of three,

5
00:00:22,556 --> 00:00:27,556
NASA astronaut Don Pettit,
Russian cosmonaut Oleg Kononenko

6
00:00:27,556 --> 00:00:32,736
and European Space Agency astronaut Andre
Kuipers lifted off on time and as scheduled

7
00:00:32,736 --> 00:00:34,776
from the Baikonur cosmodrome in Kazakhstan.

8
00:00:35,306 --> 00:00:39,686
The three Soyuz crew members having made
it safely to orbit are now on their way

9
00:00:39,686 --> 00:00:44,646
to the International Space Station after
a two-day voyage to the orbiting complex.

10
00:00:45,756 --> 00:00:48,496
Now only a few hours after
liftoff, we are now looking

11
00:00:48,496 --> 00:00:52,176

at a live view inside the International
Space Station Flight Control Room

12
00:00:52,176 --> 00:00:55,576
where the team here has been monitoring
the systems aboard the station

13
00:00:55,576 --> 00:01:00,836
and supporting the days activities as the
expedition 30 crew members now on space station.

14
00:01:01,546 --> 00:01:06,426
Leading the team here at the station flight
control room today Flight Director Mike Lammers

15
00:01:06,426 --> 00:01:09,426
seen there on the the right-hand
side in a dark suit.

16
00:01:09,426 --> 00:01:13,986
And next to him is Kjell
Lindgren who is serving as capcom.

17
00:01:13,986 --> 00:01:17,556
He is responsible for relaying all
the ground messages to the crew today.

18
00:01:20,616 --> 00:01:25,096
Meanwhile, aboard the orbiting complex
awaiting the rest of their crew to arrive,

19
00:01:25,096 --> 00:01:28,886
station Commander Dan Burbank and
Flight Engineers Anton Shkaplerov

20
00:01:28,886 --> 00:01:35,786
and Anatoly Ivanishin are in their fifth-week as
the expedition 30 crew, their six-week in space.

21
00:01:39,616 --> 00:01:42,486

Commander Burbank, Shkaplerov
and Ivanishin launched

22
00:01:42,486 --> 00:01:49,266
to the orbiting complex aboard their Soyuz
spacecraft as the expedition 29 crew last month.

23
00:01:49,266 --> 00:01:53,886
They docked their vehicle to the Poisk
module and the space station two days

24
00:01:53,886 --> 00:01:55,726
after their launch on November 15.

25
00:01:57,296 --> 00:02:01,716
Burbank had been assumed command the
station only a week after having arrived.

26
00:02:02,126 --> 00:02:07,366
Today he and his crewmembers complete
the 38th consecutive day in space.

27
00:02:07,636 --> 00:02:09,196
With another Soyuz now bound

28
00:02:09,196 --> 00:02:13,716
for the International Space Station crew
members aboard the orbiting complex remain busy

29
00:02:13,716 --> 00:02:19,156
to support ongoing research into the effects
of microgravity on the human body, biology,

30
00:02:19,156 --> 00:02:23,846
physics and materials as well as performed
some regular maintenance and upkeep to their

31
00:02:24,036 --> 00:02:25,956
to their orbital home away from home.

32
00:02:29,746 --> 00:02:33,026
The space station with the crew
aboard is now flying at an altitude

33
00:02:33,026 --> 00:02:41,886
of about 234 statute miles, the
orbiting facility is making a night pass

34
00:02:42,446 --> 00:02:46,206
on the southeastern track, having
made a path across Kazakhstan,

35
00:02:46,206 --> 00:02:50,706
this morning's Soyuz launch
site, about 35 minutes ago.

36
00:02:50,706 --> 00:02:53,036
Were now coming across the North Pacific Ocean.

37
00:02:55,236 --> 00:03:00,446
The expedition crew began their morning with
the first of two daily planning conferences,

38
00:03:00,446 --> 00:03:03,466
a couple hours after wakeup at
midnight Central Time today.

39
00:03:04,336 --> 00:03:08,256
Planning conferences are held with the
ground controllers at mission control centers

40
00:03:08,256 --> 00:03:13,906
around the world to review today's
activities and plan for the next set of tasks.

41
00:03:13,906 --> 00:03:17,516
The crew will participate in another daily
planning conference just before entering its

42

00:03:17,516 --> 00:03:18,546
pre-sleep period.

43
00:03:19,046 --> 00:03:21,566
A couple hours after today's ISS update hour.

44
00:03:21,996 --> 00:03:25,306
The crew is then scheduled to go
to bed at 3:30 p.m. Central Time.

45
00:03:30,546 --> 00:03:35,506
During today's ISS update hour, Commander Dan
Burbank will have completed a journal entry

46
00:03:35,506 --> 00:03:37,416
as part of an ongoing journal study.

47
00:03:37,896 --> 00:03:45,526
Burbank is now deactivating a photo TV laptop
to convert the current Russian video signal

48
00:03:45,526 --> 00:03:51,876
into a video signal for downlink via KU band in
advance of Friday's anticipated Soyuz docking.

49
00:03:52,996 --> 00:03:58,366
He will then participate in a standard
private medical conference and begin an hour

50
00:03:58,366 --> 00:04:00,806
of his two-hour daily physical exercise.

51
00:04:02,846 --> 00:04:06,756
Meanwhile aAnton Shkaplerov and
Anatoly Ivanishin are working together

52
00:04:06,756 --> 00:04:12,096
on the Russian BAR experiment that test
detection methods and means for depressurization

53
00:04:12,136 --> 00:04:14,066
of the International Space Station modules.

54
00:04:14,626 --> 00:04:18,636
The pair will begin their second hour
of physical exercise after concluding

55
00:04:18,636 --> 00:04:20,336
that science experiment operations.

56
00:04:22,866 --> 00:04:28,306
And earlier this morning, Commander Dan Burbank
had moved some food containers that were brought

57
00:04:28,306 --> 00:04:30,186
up on the last Progress supply ship.

58
00:04:30,216 --> 00:04:31,706
That Progress 45.

59
00:04:32,566 --> 00:04:39,286
He then relocated some items in airlock
to set up for a perform some maintenance.

60
00:04:40,046 --> 00:04:44,406
Regular maintenance scrubbing the
cooling loops of the two U.S. spacesuits

61
00:04:44,406 --> 00:04:46,146
that would be used during a spacewalk.

62
00:04:49,416 --> 00:04:51,846
Commander Burbank also changed out samples

63
00:04:51,886 --> 00:04:56,576
for the ongoing Preliminary Advanced
Colloids Experiment, known as PACE,

64

00:04:56,686 --> 00:05:00,966
within the Fluids Integrated Rack that
looks at how fluids react in microgravity.

65
00:05:02,856 --> 00:05:06,926
Later, Anton Shkaplerov and Commander
Burbank set up and tested the KU scheme

66
00:05:06,926 --> 00:05:12,646
for analog docking video in preparation
of the Soyuz TMA-03M's arrival.

67
00:05:13,986 --> 00:05:19,036
The Soyuz carrying the three new crew members
is scheduled to dock to the Rassvet module

68
00:05:19,036 --> 00:05:24,926
on Friday at 9:22 a.m. Central Time.

69
00:05:24,926 --> 00:05:29,086
Only a few hours after today's update
hour before their scheduled sleep period,

70
00:05:29,086 --> 00:05:34,506
the three station crew members will have
completed their two hours of daily exercise.

71
00:05:34,506 --> 00:05:39,346
They will perform some evening prep work and
hardware set up for tomorrow's activities,

72
00:05:39,606 --> 00:05:43,796
they will also participate in their second and
final daily planning conference before winding

73
00:05:43,796 --> 00:05:46,216
down their day with little
time and some personal hygiene.