



1
00:00:01,256 --> 00:00:03,156
Good morning and welcome
to Mission Control Houston

2
00:00:03,156 --> 00:00:05,226
and the International Space Station Update.

3
00:00:05,826 --> 00:00:07,536
Onboard the International Space Station,

4
00:00:07,536 --> 00:00:10,376
the Expedition 30 crew is more
than halfway through their day.

5
00:00:10,786 --> 00:00:12,596
It began at midnight Central time.

6
00:00:12,896 --> 00:00:15,826
They are U.S. Commander Dan Burbank,

7
00:00:15,826 --> 00:00:21,976
as well as Russian Flight Engineers
Anton Shkaplerov and Anatoly Ivanishin.

8
00:00:23,046 --> 00:00:27,566
Burbank, Shkaplerov and Ivanishin are all
still fairly new to the space station.

9
00:00:27,916 --> 00:00:32,486
They launched on their Russian
Soyuz TMA-22 vehicle on November 13

10
00:00:32,516 --> 00:00:34,236
and docked to the station on November 15.

11
00:00:34,236 --> 00:00:39,026
So they're working on their 22nd day in
space and their 20th day at the space station.

12
00:00:39,976 --> 00:00:43,666
They've been alone at the space station
since Expedition 29 crew members Mike Fossum,

13
00:00:43,966 --> 00:00:47,766
Satoshi Furukawa and Sergei
Volkov left on November 21.

14
00:00:48,586 --> 00:00:53,836
They'll soon be joined by the remainder of the
Expedition 30 crew. Flight Engineers Don Pettit,

15
00:00:54,646 --> 00:01:00,166
Oleg Kononenko and Andre Kuipers are already
in Moscow and will be moving Thursday

16
00:01:00,166 --> 00:01:06,096
to the Baikonur Cosmodrome in Kazakhstan
where their Soyuz TMA-03M is being prepared

17
00:01:06,096 --> 00:01:08,536
for their December 21 launch
to the space station.

18
00:01:08,966 --> 00:01:11,576
They're scheduled to reach
the station and join Burbank,

19
00:01:11,736 --> 00:01:14,516
Shkaplerov and Ivanishin on December 23.

20
00:01:15,206 --> 00:01:20,076
In the meantime, Burbank, Shkaplerov and
Ivanishin are all staying busy with a variety

21
00:01:20,076 --> 00:01:21,846
of maintenance and experiment activities.

22
00:01:22,436 --> 00:01:25,206

Today, Burbank is working with the PACE-2 experiment.

23
00:01:25,266 --> 00:01:30,336
That's Preliminary Advanced Colloids Experiment 2, which is a preparatory experiment

24
00:01:30,336 --> 00:01:34,916
for another study called the ACE experiment, or Advanced Colloids Experiment,

25
00:01:35,026 --> 00:01:38,816
to see how the big the particles used in the ACE experiment can be.

26
00:01:39,506 --> 00:01:42,896
Burbank also built earlier in the day two new E■■■s.

27
00:01:42,896 --> 00:01:46,496
That's an acronym for a piece of hardware with a Russian name

28
00:01:46,496 --> 00:01:49,196
that stores urine inside the Waste and Hygiene Compartment.

29
00:01:49,776 --> 00:01:55,156
And he did some work to calibrate and then use the Total Organic Carbon Analyzer which is used

30
00:01:55,156 --> 00:01:58,536
to make sure that the water being recycled on the space station is safe to drink.

31
00:01:59,106 --> 00:02:05,166
While all that is going on in space today, the crew is staying busy for the Expedition 30