

EXPEDITION 30

A portrait of Don Pettit, a flight engineer, wearing a white space helmet with a blue and red visor. He is smiling slightly. The background is a dark blue space scene with a large, complex structure, possibly a space station or shuttle component, illuminated by a bright light source. The overall tone is professional and futuristic.

**DON PETTIT**  
Flight Engineer

1  
00:00:00,996 --> 00:00:02,736

Good morning, and welcome  
to Mission Control Houston

2  
00:00:02,736 --> 00:00:04,486

and the International Space Station Update.

3  
00:00:05,446 --> 00:00:08,846

On board the International Space Station,  
the Expedition 30 crew has been awake

4  
00:00:08,846 --> 00:00:12,576

since midnight Central time, and they are  
now more than halfway through their day.

5  
00:00:13,266 --> 00:00:17,026

U.S. Commander Dan Burbank and  
U.S. Flight Engineer Don Pettit,

6  
00:00:17,056 --> 00:00:19,636

as well as European Flight  
Engineer Andre Kuipers

7  
00:00:20,226 --> 00:00:25,116

and Russian Flight Engineers Oleg Kononenko,  
Anton Shkaplerov and Anatoly Ivanishin,

8  
00:00:25,226 --> 00:00:32,856

are currently orbiting 259 miles above the South  
Pacific Ocean heading towards Central America.

9  
00:00:34,626 --> 00:00:37,046

Burbank, Shkaplerov and Ivanishin  
launched to the station

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00:00:37,046 --> 00:00:40,666

in their Russian Soyuz TMA-22 vehicle on Nov.

11  
00:00:40,666 --> 00:00:43,056

13 and docked to the space station on Nov.

12

00:00:43,056 --> 00:00:48,426

15. So they're working on their 107th day in space and their 105th day at the space station.

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00:00:49,736 --> 00:00:54,566

Kononenko, Kuipers and Pettit followed them into space in their Soyuz TMA-03M on Dec.

14

00:00:54,566 --> 00:00:57,086

21 and arrived at the station on Dec.

15

00:00:57,086 --> 00:01:01,366

23, so they're working on their 70th day in space and their 68th at the station.

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00:01:02,676 --> 00:01:05,306

Both halves of the crew still have a good time left in their stay.

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00:01:05,306 --> 00:01:08,606

Burbank, Shkaplerov and Ivanishin are scheduled to leave in April,

18

00:01:09,176 --> 00:01:11,316

and the others won't be coming home until July.

19

00:01:11,966 --> 00:01:16,876

But even so, however, preparations are being made for the departure

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00:01:16,876 --> 00:01:18,776

of Burbank, Shkaplerov and Ivanishin.

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00:01:18,906 --> 00:01:22,366

A reboost using the Zvezda service module thrusters is planned

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00:01:22,366 --> 00:01:28,376

for 4:12 a.m. Central time tomorrow to get the station in a good position for that undocking

23

00:01:28,376 --> 00:01:32,326

and a number of other activities including the arrival of the next Progress

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00:01:32,896 --> 00:01:36,666

and the three crew members that will take Burbank, Shkaplerov and Ivanishin's place.

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00:01:38,126 --> 00:01:42,086

In space today, the work is focusing on maintenance and experiments.

26

00:01:42,786 --> 00:01:46,296

Flight Engineer Don Pettit is working on two experiments - the BCAT-6,

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00:01:46,296 --> 00:01:52,726

or Binary Colloidal Alloy Test number six experiment which looks at how liquids

28

00:01:52,726 --> 00:01:55,236

and gases separate without gravity's interference

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00:01:55,236 --> 00:01:57,126

and how that separation forms structures.

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00:01:57,956 --> 00:02:01,206

And he is working also with the Capillary Flow Experiment 2

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00:02:01,616 --> 00:02:05,446

which studies how gravity affects the movement of liquids in space.

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00:02:07,376 --> 00:02:11,116

Commander Dan Burbank, meanwhile,  
is focused today on an upgrade

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00:02:11,116 --> 00:02:12,856  
of some of the station's computers.

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00:02:13,316 --> 00:02:18,596  
That upgrade involves the installation of  
several new processors called Enhanced Processor

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00:02:18,946 --> 00:02:21,376  
and Integrated Communications, or EPIC version.

36

00:02:22,236 --> 00:02:24,326  
You can see some of what he's working on here.

37

00:02:25,196 --> 00:02:28,706  
Flight Engineer Andre Kuipers is also  
working with station computers today,

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00:02:28,766 --> 00:02:31,256  
and on the Russian side of  
the station, Anton Shkaplerov

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00:02:31,256 --> 00:02:36,216  
and Anatoly Ivanishin are unpacking Progress  
46 which arrived at the station on Jan.

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00:02:36,216 --> 00:02:43,646  
27, carrying just under three tons of food,  
fuel and equipment, including 2,778 pounds

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00:02:43,646 --> 00:02:45,566  
of spare parts and experiment hardware.