



1

00:00:01,560 --> 00:00:05,540

Good morning and welcome to today's International Space Station update hour.

2

00:00:05,540 --> 00:00:10,570

Getting a live look now inside of the flight control room here in Houston, Texas, as the

3

00:00:10,570 --> 00:00:17,929

Orbit 2 team is currently on console orbiting... monitoring systems onboard the orbiting laboratory.

4

00:00:17,929 --> 00:00:23,699

Today's Orbit 2 team is being led by flight director Brian Smith, and joining him at console

5

00:00:23,699 --> 00:00:28,339

there on the screen as Capcom, Rob Hayhurst, serving as the communication link between

6

00:00:28,339 --> 00:00:33,000

controllers here on the ground and astronauts up in space.

7

00:00:33,000 --> 00:00:38,110

And those astronauts currently onboard are the crew of Expedition 30, and they're comprised

8

00:00:38,110 --> 00:00:43,180

of NASA astronaut and Expedition 30 commander Dan Burbank, there on the left middle of your

9

00:00:43,180 --> 00:00:44,830

screen.

10

00:00:44,830 --> 00:00:49,750

Standing behind him, arrived on the station alongside Burbank, are Russian cosmonauts

11

00:00:49,750 --> 00:00:53,040

Anton Shkaplerov and Anatoly Ivanishin.

12

00:00:53,040 --> 00:00:57,150

On the right side you have the three newest members of the International Space Station

13

00:00:57,150 --> 00:01:04,930

crew: Andre Kuipers there in the back left, Russian cosmonaut Oleg Kononenko there in

14

00:01:04,930 --> 00:01:09,439

the right-center and then on the far right rounding out the crew is NASA astronaut Don

15

00:01:09,439 --> 00:01:10,509

Pettit.

16

00:01:10,509 --> 00:01:16,390

The crew woke this morning at about midnight central time and started off their day with

17

00:01:16,390 --> 00:01:21,100

some presleep activities and then a daily planning conference.

18

00:01:21,100 --> 00:01:27,890

Commander Dan Burbank is spending much of his day rounding out the EPIC software upgrade,

19

00:01:27,890 --> 00:01:31,780

EPIC standing for the Enhanced Processor and Integrated Communications.

20

00:01:31,780 --> 00:01:37,579

And this is a major overhaul of the guidance, navigation control... command and control

21

00:01:37,579 --> 00:01:42,340

and payload computers, providing them with

faster processors and more memory and an Ethernet

22

00:01:42,340 --> 00:01:44,590

interface for data output.

23

00:01:44,590 --> 00:01:49,999

You can see a little bit of video here as he works on replacing those cards, and he

24

00:01:49,999 --> 00:01:55,030

was assisted throughout the day by fellow NASA astronaut Don Pettit.

25

00:01:55,030 --> 00:02:00,220

Russian cosmonaut Anton Shkaplerov spent much of his day today doing some inspection and

26

00:02:00,220 --> 00:02:05,619

photography of the windows on the Russian Zvezda or service module.

27

00:02:05,619 --> 00:02:11,060

He will also be participating in the Russian BAR experiment, which is a selection and testing

28

00:02:11,060 --> 00:02:17,260

of detection methods for means of detecting any depressurization on International Space

29

00:02:17,260 --> 00:02:19,670

Station modules.

30

00:02:19,670 --> 00:02:24,320

Fellow Russian cosmonaut Anatoly Ivanishin will also be participating in that BAR experiment

31

00:02:24,320 --> 00:02:31,069

and also doing some work on the Zvezda ventilation system, some routine maintenance and also

32
00:02:31,069 --> 00:02:37,440
some stowage work with the remaining cargo
in the 45 Progress vehicle.

33
00:02:37,440 --> 00:02:43,379
Final Russian cosmonaut Oleg Kononenko is
working today for the third day in a row on

34
00:02:43,379 --> 00:02:46,030
the Plasma Crystal-3 experiment.

35
00:02:46,030 --> 00:02:51,280
Very complex Russian experiment observing
dust particles and... that are charged and

36
00:02:51,280 --> 00:02:54,290
behave as a plasma.

37
00:02:54,290 --> 00:02:58,810
He will also be taking part in the Seiner
experiment, an investigation of the world

38
00:02:58,810 --> 00:03:04,409
oceans, and also doing some photo and video
for that BAR experiment.

39
00:03:04,409 --> 00:03:08,930
European astronaut Andre Kuipers started his
day gathering some more trash from the US

40
00:03:08,930 --> 00:03:14,480
segment for disposal on the Progress, then
also taking some O2 readings in the service

41
00:03:14,480 --> 00:03:16,989
module and the Columbus module.

42
00:03:16,989 --> 00:03:23,650
He's doing some work on the Water Recovery

and Management System as well as taking some

43

00:03:23,650 --> 00:03:27,510

time out of his day earlier to talk with Dutch media.

44

00:03:27,510 --> 00:03:34,730

And the final member of the exhibition 30 crew, NASA astronaut Don Pettit, did some...

45

00:03:34,730 --> 00:03:41,109

some assistance work with those EPIC upgrades with Commander Burbank as well as doing some

46

00:03:41,109 --> 00:03:46,770

tests on his own body doing a vision test and an on-orbit hearing assessment, and those

47

00:03:46,770 --> 00:03:49,010

will be his major activities for the day.