
JAXA

1
00:00:01,590 --> 00:00:06,040
Good morning and welcome to today's
International Space Station update hour.

2
00:00:06,040 --> 00:00:10,570
You're joining us now here inside Mission
Control Houston at the Johnson space center

3
00:00:10,570 --> 00:00:12,120
where the Orbit Two team is currently

4
00:00:12,120 --> 00:00:16,680
on console monitoring the systems
onboard the orbiting complex.

5
00:00:16,680 --> 00:00:21,110
That team is being led today by flight
director David Korth and joining him

6
00:00:21,110 --> 00:00:28,560
at the Capcom position talking with the
crew up in space is astronaut CJ Sturckow.

7
00:00:28,560 --> 00:00:34,170
And those astronauts up in space right
now are the crew of Expedition 30 starting

8
00:00:34,170 --> 00:00:40,860
with the front row Expedition 30 commander and
NASA astronaut there on the left Dan Burbank.

9
00:00:40,860 --> 00:00:47,050
And on the right front row is
Russian cosmonaut Oleg Kononenko.

10
00:00:47,050 --> 00:00:51,290
Going across the back from the left you
have Russian cosmonauts Anton Shkaplerov

11

00:00:51,290 --> 00:00:53,110
and Anatoly Ivanishin.

12
00:00:53,110 --> 00:00:58,320
And they are joined by European
Space Agency astronaut Andre Kuipers

13
00:00:58,320 --> 00:01:02,670
and finally NASA astronaut Don Pettit.

14
00:01:02,670 --> 00:01:06,830
So quite a bit of experiment work
going on onboard the station today,

15
00:01:06,830 --> 00:01:11,960
with Commander Burbank working
with the Capillary Flow Experiment.

16
00:01:11,960 --> 00:01:16,990
Earlier in the day he did some alignment guide
removal on the fluid and combustion facility

17
00:01:16,990 --> 00:01:20,590
which houses that experiment
before moving into it.

18
00:01:20,590 --> 00:01:24,970
And that is a fluid physics research
project that investigates capillary flow

19
00:01:24,970 --> 00:01:28,820
of different fluids in various
complex containers.

20
00:01:28,820 --> 00:01:33,290
And this is all going to be used
in the development of fuel systems

21
00:01:33,290 --> 00:01:36,680
and other fluid transfer

devices on future spacecraft.

22
00:01:36,680 --> 00:01:42,920
Russian cosmonaut Anton Shkaplerov was doing
some work on the Russian Elektron system

23
00:01:42,920 --> 00:01:49,240
which is one of the oxygen generator
devices onboard International Space Station.

24
00:01:49,240 --> 00:01:54,080
He's also doing some work with the Seiner
experiment doing ocean observations

25
00:01:54,080 --> 00:01:59,140
which helps the Russian fishing
industry identify the most biodiverse

26
00:01:59,140 --> 00:02:00,630
and productive areas.

27
00:02:00,630 --> 00:02:05,910
His fellow Russian cosmonaut Anatoly
Ivanishin was doing some maintenance work

28
00:02:05,910 --> 00:02:11,240
on the Russian segment today replacing some of
the air filters in the Zarya module and some

29
00:02:11,240 --> 00:02:16,180
of the dust collectors before moving on
to doing some routine system maintenance

30
00:02:16,180 --> 00:02:21,680
on the coolant system and relocating
some Russian items in the Zarya module.

31
00:02:21,680 --> 00:02:27,600
The third Russian cosmonaut Oleg Kononenko
is loading some of the disposable hardware

32
00:02:27,600 --> 00:02:33,270
onto the Progress 46 spacecraft which
will eventually be undocked and burned

33
00:02:33,270 --> 00:02:35,730
up in the Earth's atmosphere during reentry.

34
00:02:35,730 --> 00:02:41,950
And he was also working with the Russian
Relaxation experiment, which is a complex look

35
00:02:41,950 --> 00:02:45,950
at determining the effects of
different in-space propulsion systems

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00:02:45,950 --> 00:02:49,640
and their exhaust on the
Earth's upper atmosphere.

37
00:02:49,640 --> 00:02:55,250
And also looks at some of the effects that
they have on the space station's environment

38
00:02:55,250 --> 00:03:03,080
and their optically sensitive surfaces
such as windows and equipment lenses.

39
00:03:03,080 --> 00:03:07,750
Yesterday the three Russian cosmonauts also
voted in the Russian presidential election

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00:03:07,750 --> 00:03:12,220
from orbit using a procedure set
up with officials on the ground

41
00:03:12,220 --> 00:03:16,930
at the Gagarin Cosmonaut Training
Center in Star City, Russia.

42
00:03:18,320 --> 00:03:22,390
European Space Agency astronaut
Andre Kuipers started his day working

43
00:03:22,390 --> 00:03:25,340
on the HTV hardware command panel.

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00:03:25,340 --> 00:03:30,830
This is a control panel up onboard the station
used to monitor the vehicle health status

45
00:03:30,830 --> 00:03:37,050
of the Japanese HTV-3 cargo ship once it's
launched later this year to deliver supplies

46
00:03:37,050 --> 00:03:40,210
to the International Space Station.

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00:03:40,210 --> 00:03:44,600
He's also working with the VO2max
today which is a system used

48
00:03:44,600 --> 00:03:48,040
to evaluate the astronauts'
maximal oxygen uptake

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00:03:48,040 --> 00:03:52,000
and also their general respiratory
performance both before,

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00:03:52,000 --> 00:03:55,810
during and after these long-duration
space station missions.

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00:03:55,810 --> 00:04:01,750
And then later today Andre Kuipers will be
speaking with a computer expo trade fair

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00:04:01,750 --> 00:04:07,780

in Hanover, Germany where he will take some time
to converse with German Chancellor Angela Merkel

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00:04:07,780 --> 00:04:10,400
and Brazilian President Dilma Rousseff.

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00:04:10,400 --> 00:04:15,690
That will take place later today
at 12:15 p.m. central time,

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00:04:15,690 --> 00:04:19,080
1:15 p.m. Eastern time here on NASA TV.

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00:04:19,080 --> 00:04:24,330
And then the final Expedition 30
crew member Don Pettit spent much

57
00:04:24,330 --> 00:04:27,740
of his day today working
with the SLICE experiment.

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00:04:27,740 --> 00:04:32,490
SLICE stands for Structure and Liftoff
and Combustion Experiment and looks

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00:04:32,490 --> 00:04:35,570
to investigate the nature
of flames in microgravity.

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00:04:35,570 --> 00:04:40,910
And then this hopes to have applications that
could lead to improvements in technologies here

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00:04:40,910 --> 00:04:45,830
on Earth which aim to reduce pollution
emissions and improve burning efficiency

62
00:04:45,830 --> 00:04:49,420
for a wide variety of industries
that use combustion.

63
00:04:49,420 --> 00:04:55,130
Then he will also be doing some routine
maintenance replacing the water container

64
00:04:55,130 --> 00:04:58,830
and offloading some wastewater
with the Water Recovery System.

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00:04:58,830 --> 00:05:04,230
The astronauts are scheduled go to sleep
at about 3:30 p.m. central time wrapping