1
00:00:00,146 --> 00:00:02,326
Good morning and welcome
to Mission Control, Houston

2
00:00:02,326 --> 00:00:04,236
and the International
Space Station update hour.

3
00:00:04,936 --> 00:00:07,166
We're joining the International
Space Station flight control

4
00:00:07,166 --> 00:00:09,226
team in the space station
flight control room here

5
00:00:09,226 --> 00:00:10,686
at the Mission Control
Center in Houston,

6
00:00:10,866 --> 00:00:13,676
where the orbit two team
is on console at this time,

7
00:00:13,966 --> 00:00:16,256
and they're led today by
Flight Director Paul Dye

8
00:00:16,486 --> 00:00:19,556
with astronaut C.J.
Sturckow in the Capcom seat.

9
00:00:19,696 --> 00:00:22,186
You can see Dye and
Sturckow here.

10
00:00:23,966 --> 00:00:25,546
On board the International
Space Station,

11
00:00:25,546 --> 00:00:28,956
the Expedition 31 crew has been
awake since 1 a.m. Central time.

12
00:00:29,606 --> 00:00:31,256
Commander Oleg Kononenko

13
00:00:31,566 --> 00:00:33,726
and Russian Flight
Engineers Gennady Padalka

14
00:00:33,726 --> 00:00:39,996
and Sergei Revin, as well as
U.S. Flight Engineers Don Pettit

15
00:00:39,996 --> 00:00:44,296
and Joe Acaba and European
Flight Engineer Andre Kuipers,

16
00:00:44,786 --> 00:00:48,176
are now all more than halfway
through a busy day of science

17
00:00:48,176 --> 00:00:51,656
and maintenance activities
as well as transfer work.

18
00:00:52,046 --> 00:00:54,706
They're currently
orbiting 252 miles

19
00:00:54,706 --> 00:00:59,336
above southern Africa heading
north towards the Indian Ocean.

20
00:01:01,336 --> 00:01:03,046
Kononenko, Kuipers
and Pettit have been

21

00:01:03,046 --> 00:01:04,586
at the space station
since December.

22
00:01:05,146 --> 00:01:06,416
They launched into space on Dec.

23
00:01:06,416 --> 00:01:08,226
21 and docked on the 23rd.

24
00:01:08,976 --> 00:01:13,076
Now with 167 days in space
and 165 at the space station,

25
00:01:13,466 --> 00:01:14,896
they're coming up on
the end their sojourn.

26
00:01:14,896 --> 00:01:17,076
They're scheduled to
return to Earth on July 1.

27
00:01:17,076 --> 00:01:24,146
Their crewmates Acaba, Padalka
and Revin still have most

28
00:01:24,146 --> 00:01:25,106
of their mission
in front of them.

29
00:01:25,286 --> 00:01:28,476
They only launched from
Baikonur on May 14 and arrived

30
00:01:28,476 --> 00:01:31,646
at the station on May 16, which
means they've now spent 21 days

31
00:01:31,646 --> 00:01:33,646
in space and 19 at

the space station.

32
00:01:34,406 --> 00:01:38,206
They won't be alone for long,
however, after Kononenko,

33
00:01:38,266 --> 00:01:39,196
Kuipers and Pettit leave.

34
00:01:39,926 --> 00:01:42,316
They'll be joined in a
couple of weeks after that

35
00:01:42,316 --> 00:01:45,996
by what will then be the rest
of the Expedition 32 crew.

36
00:01:46,136 --> 00:01:50,216
That's Suni Williams, Yuri
Malenchenko and Aki Hoshide.

37
00:01:51,246 --> 00:01:54,186
Those three are scheduled
launch from Baikonur on July 15.

38
00:01:55,246 --> 00:01:57,946
Preparations for all of those
activities are ongoing both here

39
00:01:58,526 --> 00:01:59,916
on the ground and in space.

40
00:02:00,876 --> 00:02:03,526
Williams, Malenchenko
and Hoshide are currently

41
00:02:03,526 --> 00:02:05,836
at the Gagarin Cosmonaut
Training Center in Star City,

42
00:02:05,836 --> 00:02:09,106
Russia, and today they took part
in a suited Soyuz simulation.

43
00:02:09,926 --> 00:02:12,676
Meanwhile on board the space
station, Acaba spent an hour

44
00:02:12,676 --> 00:02:14,486
of handover time
with Pettit yesterday

45
00:02:14,926 --> 00:02:16,246
and today did the
same with Kuipers.

46
00:02:16,536 --> 00:02:18,236
Of course, this mission
still has a lot

47
00:02:18,236 --> 00:02:19,786
to do before the
next one starts.

48
00:02:19,786 --> 00:02:21,186
Today Don Pettit is working

49
00:02:21,186 --> 00:02:23,626
to replace a short-circuited
power supply

50
00:02:23,626 --> 00:02:25,816
for the Japanese
Ryutai experiment -

51
00:02:26,506 --> 00:02:30,156
its processing unit to be exact.

52
00:02:30,156 --> 00:02:34,836

He and Joe Acaba are also
spending some time today

53
00:02:34,836 --> 00:02:37,616
with the BASS experiment,
which stands for the Burning

54
00:02:37,616 --> 00:02:39,476
And Suppression of
Solids experiment

55
00:02:39,946 --> 00:02:42,876
that tests the hypothesis that,
all other things being equal,

56
00:02:42,906 --> 00:02:45,626
materials in microgravity
burn as well or better

57
00:02:45,626 --> 00:02:46,706
than they would in gravity.

58
00:02:49,086 --> 00:02:51,766
Joe Acaba is also doing
a round of monitoring

59
00:02:51,766 --> 00:02:54,716
for the Integrated
Cardiovascular experiment today,

60
00:02:54,716 --> 00:02:57,496
which looks at how the body's
cardiovascular system reacts

61
00:02:57,496 --> 00:03:00,626
to being in space, and Andre
Kuipers is doing some health

62
00:03:00,626 --> 00:03:02,676
monitoring of his own

for another experiment,

63
00:03:02,746 --> 00:03:04,896
this one the VO2 Max experiment,

64
00:03:05,546 --> 00:03:07,676
which works to document
how astronauts' ability

65
00:03:07,676 --> 00:03:09,976
to do strenuous physical
activity changes during their

66
00:03:09,976 --> 00:03:10,776
time in space.

67
00:03:12,126 --> 00:03:14,036
And finally on the Russian
side of the space station,

68
00:03:14,036 --> 00:03:15,986
cosmonauts were also
participating in a couple

69
00:03:15,986 --> 00:03:17,006
of science experiments.

70
00:03:17,466 --> 00:03:19,736
Gennady Padalka was again
today scheduled to work

71
00:03:19,736 --> 00:03:22,126
on the Kulonovskiy
Kristall experiment,

72
00:03:22,126 --> 00:03:24,366
which studies the
effect of microgravity

73

00:03:24,806 --> 00:03:26,796
on charged particles
in a magnetic field,

74
00:03:27,366 --> 00:03:30,116
and Sergei Revin had some
time set aside to work

75
00:03:30,116 --> 00:03:32,226
on an experiment that
monitors group activities

76
00:03:32,226 --> 00:03:33,616
under spaceflight conditions.

77
00:03:34,286 --> 00:03:36,186
That's what's going
on in space today,