1
00:00:01,746 --> 00:00:05,576
We're joining the International
Space Station flight control

2
00:00:05,576 --> 00:00:07,816
team in the space station
flight control room here

3
00:00:07,816 --> 00:00:09,356
at the Mission Control
Center in Houston.

4
00:00:10,046 --> 00:00:11,956
The orbit two team is
on console at this time,

5
00:00:11,956 --> 00:00:14,506
and they're led again today
by Flight Director Paul Dye.

6
00:00:15,006 --> 00:00:18,876
He's joined today by Anna
Fisher in the Capcom seat.

7
00:00:20,076 --> 00:00:21,806
On board the International
Space Station,

8
00:00:21,806 --> 00:00:23,876
the Expedition 31
crew has been awake

9
00:00:23,876 --> 00:00:26,046
since 1 a.m. Central
time despite being

10
00:00:26,046 --> 00:00:28,176
up a bit late last night,

11

00:00:28,176 --> 00:00:31,846
staying up to photograph
the historic Venus transit.

12
00:00:31,846 --> 00:00:33,596
Photo of what that
looked like here.

13
00:00:34,156 --> 00:00:37,446
Commander Oleg Kononenko and
U.S. Flight Engineers Don Pettit

14
00:00:37,446 --> 00:00:39,186
and Joe Acaba, as well

15
00:00:39,186 --> 00:00:41,406
as European Flight
Engineer Andre Kuipers

16
00:00:41,406 --> 00:00:44,136
and Russian Flight
Engineers Gennady Padalka

17
00:00:44,136 --> 00:00:48,256
and Sergei Revin are now more
than halfway through their day.

18
00:00:48,896 --> 00:00:51,706
Kononenko, Kuipers and Pettit
have been at the space station

19
00:00:51,706 --> 00:00:54,116
since December, and they
launched into space on Dec.

20
00:00:54,116 --> 00:00:56,646
21, docking on the 23rd.

21
00:00:57,106 --> 00:01:01,456
Now with 168 days in space

and 166 at the space station,

22
00:01:01,456 --> 00:01:03,256
they're coming up on the
end of their mission,

23
00:01:03,746 --> 00:01:06,026
scheduled to return
to Earth on July 1.

24
00:01:07,756 --> 00:01:13,186
Their crewmates Acaba, Padalka
and Revin, still have most

25
00:01:13,186 --> 00:01:14,166
of their mission
in front of them.

26
00:01:14,406 --> 00:01:17,396
They only launched from
Baikonur on May 14 and arrived

27
00:01:17,396 --> 00:01:20,806
at the station on May 16, which
means they've now spent 22 days

28
00:01:20,806 --> 00:01:22,516
in space and 20 at
the space station.

29
00:01:23,256 --> 00:01:27,306
A couple of weeks after their
crewmates leave, Acaba, Padalka

30
00:01:27,306 --> 00:01:29,856
and Revin are going to be joined
by what will then be the rest

31
00:01:29,856 --> 00:01:32,356
of the Expedition 32

crew - Suni Williams,

32
00:01:32,686 --> 00:01:34,466
Yuri Malenchenko
and Aki Hoshide.

33
00:01:35,676 --> 00:01:38,456
Those three are scheduled to
launch from Baikonur on July 15,

34
00:01:38,456 --> 00:01:40,776
and they're already in Russia
preparing for their departure.

35
00:01:41,226 --> 00:01:43,656
Today they were at the Gagarin
Cosmonaut Training Center

36
00:01:43,656 --> 00:01:47,656
in Star City taking part in
a Russian segment simulation.

37
00:01:48,986 --> 00:01:51,526
In space the day's work
has focused on maintenance

38
00:01:51,526 --> 00:01:53,436
and crew health monitoring
experiments.

39
00:01:53,626 --> 00:01:55,036
Don Pettit has been
spending a good deal

40
00:01:55,036 --> 00:01:57,346
of his time this morning
preparing for repair work

41
00:01:57,346 --> 00:02:00,726
that he'll be doing tomorrow on

the Amine Swingbed experiment.

42
00:02:00,896 --> 00:02:01,946
That experiment is working

43
00:02:01,946 --> 00:02:05,356
to determine whether a vacuum
regenerated amine system can

44
00:02:05,356 --> 00:02:07,256
effectively remove
carbon dioxide

45
00:02:07,256 --> 00:02:08,486
from the space station's air,

46
00:02:09,286 --> 00:02:14,266
but its control unit power
handler circuit board has blown

47
00:02:14,266 --> 00:02:16,346
a fuse that Pettit's going
to be replacing tomorrow.

48
00:02:17,416 --> 00:02:19,926
This week's work with the
Ryutai experiment rack is

49
00:02:19,926 --> 00:02:20,816
also continuing.

50
00:02:20,816 --> 00:02:22,796
Pettit and Kuipers have
been taking turns working

51
00:02:22,796 --> 00:02:25,186
to replace a short-circuited
power supply

52

00:02:25,186 --> 00:02:26,556
in its image processing unit.

53
00:02:27,126 --> 00:02:28,746
Pettit did the actual
repair yesterday,

54
00:02:28,746 --> 00:02:31,156
and today Kuipers is
reinstalling the repaired unit

55
00:02:31,156 --> 00:02:32,486
into the experiment rack.

56
00:02:33,856 --> 00:02:36,836
Joe Acaba is also doing
another round of monitoring

57
00:02:36,836 --> 00:02:39,256
for the Integrated
Cardiovascular experiment

58
00:02:39,256 --> 00:02:42,346
which looks at how the body's
cardiovascular system reacts

59
00:02:42,346 --> 00:02:44,986
to being in space, and he's
in the middle of a session

60
00:02:44,986 --> 00:02:48,096
of the Pro K diet experiment as
well which is an experiment see

61
00:02:48,096 --> 00:02:51,586
if dietary countermeasures
will help lessen the bone loss

62
00:02:51,666 --> 00:02:54,856
that astronauts often experience

during long-duration missions.

63
00:02:55,096 --> 00:02:58,076
And finally on the Russian
side of the space station,

64
00:02:58,076 --> 00:03:00,206
the cosmonauts were
also participating

65
00:03:00,266 --> 00:03:01,926
in several science experiments.

66
00:03:02,236 --> 00:03:05,386
Gennady Padalka was again
today scheduled to work

67
00:03:05,386 --> 00:03:07,576
on the Kulonovskiy
Kristall experiment

68
00:03:07,576 --> 00:03:09,286
which studies the
effect of microgravity

69
00:03:09,286 --> 00:03:11,256
on charged particles
in a magnetic field,

70
00:03:11,716 --> 00:03:14,306
as well as the Bar experiment
which looks at different methods

71
00:03:14,306 --> 00:03:16,056
of detecting leaks
on the space station.

72
00:03:16,956 --> 00:03:19,736
He's also got some time set
aside to work on an experiment

73
00:03:19,736 --> 00:03:22,446
that monitors group activities
under spaceflight conditions.

74
00:03:23,436 --> 00:03:24,796
That's what's going
on in space today,