
EXPEDITION 32
J. ACABA
JOE ACABA
Flight Engineer

1
00:00:01,656 --> 00:00:03,376
This is Mission Control,
Houston.

2
00:00:03,866 --> 00:00:07,296
The International Space Station
crew now has supply ships

3
00:00:07,296 --> 00:00:11,106
from three different nations
at their doors and are syncing

4
00:00:11,106 --> 00:00:14,276
up their sleep shifts as they
get ready to open the hatches

5
00:00:14,276 --> 00:00:15,716
on a new load of supplies.

6
00:00:16,486 --> 00:00:21,296
A new Russian cargo vehicle,
the 48th Progress cargo ship,

7
00:00:21,656 --> 00:00:24,736
arrived at the space station's
Pirs docking compartment

8
00:00:24,736 --> 00:00:28,276
Wednesday night, just six
hours after its launch

9
00:00:28,276 --> 00:00:30,346
from the Baikonur
Cosmodrome in Kazakhstan.

10
00:00:30,346 --> 00:00:34,066
It was the first ever same-day
rendezvous flight profile.

11

00:00:34,586 --> 00:00:36,946
It's being tested
for a potential use

12
00:00:36,946 --> 00:00:38,626
on future Soyuz missions.

13
00:00:39,186 --> 00:00:41,576
The Russian crew
members and the American

14
00:00:41,576 --> 00:00:45,916
and Japanese trio have been
on different sleep shifts

15
00:00:45,916 --> 00:00:48,786
since yesterday in order
to support the arrival

16
00:00:48,786 --> 00:00:51,296
of the Progress vehicle
on Wednesday evening.

17
00:00:51,836 --> 00:00:54,916
Flight Engineers Joe
Acaba, Suni Williams

18
00:00:55,036 --> 00:00:58,266
and Aki Hoshide have been awake

19
00:00:58,266 --> 00:01:01,686
since 2:30 a.m. Houston
time on Wednesday.

20
00:01:03,206 --> 00:01:07,726
Acaba and Williams had their
morning exercise sessions while

21
00:01:07,886 --> 00:01:11,776
Hoshide set up equipment

for the VO2Max experiment,

22
00:01:12,186 --> 00:01:16,406
and then conducted exercise
while having his oxygen uptake

23
00:01:16,406 --> 00:01:20,626
measured in order to try to find
out how it differs for a person

24
00:01:20,626 --> 00:01:22,886
on orbit as opposed
to a person on Earth.

25
00:01:23,936 --> 00:01:28,326
Hoshide also had his weekly
tag up with the management

26
00:01:28,326 --> 00:01:30,866
of the Japan Aerospace
Exploration Agency

27
00:01:31,316 --> 00:01:32,656
and conducted maintenance

28
00:01:32,656 --> 00:01:35,006
on the space station's
Waste Hygiene Compartment.

29
00:01:35,496 --> 00:01:38,996
Acaba filled out his morning
with station maintenance,

30
00:01:39,126 --> 00:01:41,656
and then work with a
vascular experiment

31
00:01:42,066 --> 00:01:44,186
which is a Canadian
experiment looking

32
00:01:44,186 --> 00:01:47,416
into the mechanisms
responsible for changes

33
00:01:47,416 --> 00:01:50,426
in a person's blood pressure,
particularly those changes

34
00:01:50,426 --> 00:01:53,536
that can occur in people
on Earth as they age.

35
00:01:54,076 --> 00:01:57,546
Acaba spent time during his
afternoon joining Hoshide

36
00:01:58,056 --> 00:02:01,186
on deploying Portable
Breathing Apparati

37
00:02:01,426 --> 00:02:02,956
around the space station.

38
00:02:03,656 --> 00:02:07,616
For Suni Williams, her morning
science work was with the BCAT,

39
00:02:07,866 --> 00:02:11,776
a physical sciences
experiment into critical points

40
00:02:11,776 --> 00:02:13,926
of binary colloidal alloys.

41
00:02:14,436 --> 00:02:17,356
The results of that could
lead to prolonged shelflife

42

00:02:17,356 --> 00:02:20,526
of everyday products
and long-term could lead

43
00:02:20,526 --> 00:02:24,186
to development of new materials
for electronics and medicine.

44
00:02:24,926 --> 00:02:27,626
Williams had time
in her afternoon

45
00:02:27,626 --> 00:02:29,296
for treadmill exercise,

46
00:02:29,726 --> 00:02:32,606
conducted today wearing
a special set of markers

47
00:02:32,776 --> 00:02:35,366
that help biomechanical
engineers see

48
00:02:35,366 --> 00:02:37,386
that the exercise is
being done properly

49
00:02:37,646 --> 00:02:39,446
so that crew members
get the most

50
00:02:39,446 --> 00:02:40,696
out of the work that they do.

51
00:02:41,426 --> 00:02:45,006
Space station Commander Gennady
Padalka and Flight Engineers

52
00:02:45,006 --> 00:02:47,996
and Sergei Revin and Yuri

Malenchenko had a late

53
00:02:48,036 --> 00:02:48,826
wake-up call.

54
00:02:48,916 --> 00:02:51,496
It didn't come until
eight o'clock Houston time

55
00:02:51,496 --> 00:02:52,296
Wednesday morning.

56
00:02:52,786 --> 00:02:55,896
They're to begin making
leak checks of the interface

57
00:02:55,936 --> 00:02:59,306
between the Progress vehicle and
the Pirs docking compartment.

58
00:02:59,896 --> 00:03:03,966
Padalka and Malenchenko will
work on opening the several sets

59
00:03:03,966 --> 00:03:06,036
of hatches between
the two modules

60
00:03:06,376 --> 00:03:09,906
at about noon Central time,
while Revin will be in charge

61
00:03:09,906 --> 00:03:13,106
of the air sampling as
those hatches are open.

62
00:03:13,366 --> 00:03:16,146
He'll also be seeing to other
Russian systems maintenance

63
00:03:16,146 --> 00:03:17,056
on board the station.

64
00:03:17,896 --> 00:03:21,046
All six crew members due to
be back on the same schedule

65
00:03:21,046 --> 00:03:24,666
for the Thursday afternoon
planning conference as well

66
00:03:24,666 --> 00:03:27,486
as the weekly tag up with
NASA Astronaut Office.

67
00:03:28,046 --> 00:03:31,546
They all will be looking ahead
to the schedule for Friday,

68
00:03:31,666 --> 00:03:34,976
which includes unloading
of the Progress vehicle.

69
00:03:35,456 --> 00:03:40,326
Plus Acaba and Hoshide,
they'll be training

70
00:03:40,326 --> 00:03:45,616
for robotic arm operations when
they will be using the Canadarm2

71
00:03:45,916 --> 00:03:48,546
as well as the Japanese
robotic arm

72
00:03:48,866 --> 00:03:52,606
to remove an unpressurized
cargo pallet

73

00:03:52,876 --> 00:03:55,876
from the H-II Transfer
Vehicle and move it

74
00:03:55,986 --> 00:03:58,526
onto the Kibo Exposed Facility.