

EXPEDITION 32

A portrait of Sunita Williams, a woman with long, dark, wavy hair, smiling. She is wearing a white flight suit. The background is a blue-tinted image of a space station or satellite structure.

SUNITA WILLIAMS
Flight Engineer

1
00:00:12,830 --> 00:00:20,330
Good morning this is mission
control Houston and welcome

2
00:00:20,330 --> 00:00:22,930
to today's International
Space Station update.

3
00:00:22,930 --> 00:00:24,030
You are joining us here

4
00:00:24,030 --> 00:00:26,630
in the flight control
room in Houston, Texas.

5
00:00:26,630 --> 00:00:27,880
The Orbit 2 team right now

6
00:00:27,880 --> 00:00:30,830
on console monitoring all
their respective systems

7
00:00:30,830 --> 00:00:34,800
for controlling this orbiting
laboratory, just about 260 miles

8
00:00:34,800 --> 00:00:37,150
over the Earth's surface.

9
00:00:37,150 --> 00:00:41,050
Right now the station out
over the Pacific Ocean heading

10
00:00:41,050 --> 00:00:43,810
northeasterly about made
a pass over North America

11
00:00:43,810 --> 00:00:45,420
in just a little while.

12

00:00:45,420 --> 00:00:48,780

The team today inside
mission control here being led

13

00:00:48,780 --> 00:00:52,190

by flight director David
Korth, there in the blue shirt,

14

00:00:52,190 --> 00:00:55,750

joining him at the Capcom
position is Anna Fisher serving

15

00:00:55,750 --> 00:00:58,540

as the communication link
between all our controllers here

16

00:00:58,540 --> 00:01:01,480

on the ground and
astronauts up in space.

17

00:01:01,480 --> 00:01:06,090

And those astronaut, or
the crew of Expedition 32,

18

00:01:06,090 --> 00:01:09,830

a couple of them only onboard
the station for a few more days,

19

00:01:09,830 --> 00:01:13,350

starting over on the left we
have our three crew members

20

00:01:13,350 --> 00:01:17,020

who will be remaining onboard
to become Expedition 33.

21

00:01:17,020 --> 00:01:21,320

All the way on the left there we
have JAXA astronaut Aki Hoshide,

22

00:01:21,320 --> 00:01:25,810
and in the middle Russian
cosmonaut Yuri Malenchenko,

23

00:01:25,810 --> 00:01:28,200
and then NASA astronaut
Suni Williams will be taking

24

00:01:28,200 --> 00:01:28,910
over command

25

00:01:28,910 --> 00:01:30,840
of the International Space
Station this Saturday.

26

00:01:30,840 --> 00:01:35,260
And then right next to her
is NASA astronaut Joe Acaba.

27

00:01:35,260 --> 00:01:38,090
Next to him is current
Expedition 32 Commander Gennady

28

00:01:38,090 --> 00:01:40,320
Padalka, a Russian
cosmonaut, and all the way

29

00:01:40,320 --> 00:01:42,990
on the right there, our
third Russian Sergei Revin.

30

00:01:42,990 --> 00:01:46,480
The three on the right there
coming home next Sunday.

31

00:01:46,480 --> 00:01:47,530
They have been docked

32

00:01:47,530 --> 00:01:50,140
to the International Space
Station since May 16.

33

00:01:50,140 --> 00:01:53,650
You can see the split up of the
two different Soyuz crews here

34

00:01:53,650 --> 00:01:56,740
that are currently
comprising Expedition 32.

35

00:01:56,740 --> 00:02:00,950
And again, a couple of them only
onboard for a few more days.

36

00:02:00,950 --> 00:02:03,210
Meanwhile, on board
International Space Station

37

00:02:03,210 --> 00:02:05,780
today though, a lot of
prep work for the departure

38

00:02:05,780 --> 00:02:11,310
of another vehicle, the Japanese
HTV cargo vehicle is scheduled

39

00:02:11,310 --> 00:02:13,120
to on unberth and be released

40

00:02:13,120 --> 00:02:15,790
from International
Space Station tomorrow.

41

00:02:15,790 --> 00:02:16,850
You can see a couple

42

00:02:16,850 --> 00:02:19,870
of our astronauts right now

installing awesome thermal

43

00:02:19,870 --> 00:02:23,150
protection over the airlock
to the unmanned cargo craft.

44

00:02:23,150 --> 00:02:25,900
Aki Hoshide there and
he is joined right now

45

00:02:25,900 --> 00:02:27,590
by Suni Williams.

46

00:02:27,590 --> 00:02:32,870
But onboard the station, Joe
Acaba, a couple of tasks today

47

00:02:32,870 --> 00:02:34,230
with that HTV vehicle,

48

00:02:34,230 --> 00:02:36,640
he started off his
day though setting

49

00:02:36,640 --> 00:02:38,870
up some air sampling
monitors inside

50

00:02:38,870 --> 00:02:42,010
of the International Space
Station as they continue

51

00:02:42,010 --> 00:02:43,380
to monitor the air quality

52

00:02:43,380 --> 00:02:46,040
of throughout the astronauts
breathing atmosphere.

53

00:02:46,040 --> 00:02:49,860

He is also doing some work
inside that HTV vehicle,

54

00:02:49,860 --> 00:02:52,770

removing a few the
lighting assemblies inside

55

00:02:52,770 --> 00:02:55,940

and then closing up the hatch
alongside of Aki Hoshida.

56

00:02:55,940 --> 00:03:01,710

He is also on installing a
common berthing mechanism inside

57

00:03:01,710 --> 00:03:05,340

of Node 2 or the Harmony module
where it is currently docked.

58

00:03:05,340 --> 00:03:07,640

He is installing the
control panel assembly

59

00:03:07,640 --> 00:03:10,150

and a little bit later he
will be having an unberthing

60

00:03:10,150 --> 00:03:13,700

conference with controllers
down here on the ground.

61

00:03:13,700 --> 00:03:17,460

Meanwhile, Suni Williams was
continuing some work today

62

00:03:17,460 --> 00:03:18,880

with the VO2max.

63

00:03:18,880 --> 00:03:23,280

It is a ongoing medical research
experiment on the station

64

00:03:23,280 --> 00:03:25,490

as these astronauts
document any changes

65

00:03:25,490 --> 00:03:30,680

in their maximum oxygen uptake
as their exposed to microgravity

66

00:03:30,680 --> 00:03:32,020

for long periods of time.

67

00:03:32,020 --> 00:03:35,300

The astronauts bodies can
undergo a series of changes

68

00:03:35,300 --> 00:03:38,870

so VO₂max looking to
document any of those changes

69

00:03:38,870 --> 00:03:40,610

in their oxygen uptake.

70

00:03:40,610 --> 00:03:43,780

As you can see just a few
seconds ago she has also been

71

00:03:43,780 --> 00:03:48,120

working to help prepare that
HTV vehicle for its departure.

72

00:03:48,120 --> 00:03:50,980

She was working on
the of the vestibule

73

00:03:50,980 --> 00:03:54,500

to disconnecting a few the power
jumpers, also installing some

74

00:03:54,500 --> 00:03:56,410
of these thermal
blankets on the hatch

75

00:03:56,410 --> 00:04:00,560
to minimize the thermal loads
on the station structure.

76

00:04:00,560 --> 00:04:03,700
And then a little bit later this
afternoon she will take some

77

00:04:03,700 --> 00:04:07,300
time out of her day to talk with
a few reporters on the ground,

78

00:04:07,300 --> 00:04:10,640
giving them more inside
look inside to life

79

00:04:10,640 --> 00:04:13,460
on board International
Space Station.

80

00:04:13,460 --> 00:04:16,120
Our third OSUS crew
member Aki Hoshide

81

00:04:16,120 --> 00:04:20,190
from JAXA started
his day off setting

82

00:04:20,190 --> 00:04:24,120
up some acoustic
dosemeters inside

83

00:04:24,120 --> 00:04:25,920
of the International
Space Station.

84

00:04:25,920 --> 00:04:29,800

They will be monitoring for about 24 hours and are looking

85

00:04:29,800 --> 00:04:33,320

to monitor different sound loads throughout the station.

86

00:04:33,320 --> 00:04:36,940

He is also doing a lot of work today on that HTV vehicle.

87

00:04:36,940 --> 00:04:41,630

He will be closing out, took some video

88

00:04:41,630 --> 00:04:44,330

of the interior set up, making sure everything was

89

00:04:44,330 --> 00:04:46,030

in place a little bit earlier,

90

00:04:46,030 --> 00:04:49,050

also activating the re-entry breakup recorder.

91

00:04:49,050 --> 00:04:52,380

This HTV vehicle, once it enters the Earth's atmosphere,

92

00:04:52,380 --> 00:04:56,170

will break up upon re-entry, not returning any

93

00:04:56,170 --> 00:04:58,250

down mass back to the ground.

94

00:04:58,250 --> 00:05:01,700
He was also inside the vehicle
removing some smoke detectors

95
00:05:01,700 --> 00:05:04,630
and helping Suni Williams
prepare that vestibule

96
00:05:04,630 --> 00:05:07,820
for demate and then closing
the hatch with Joe Acaba,

97
00:05:07,820 --> 00:05:10,130
then setting up the
control panel assembly.

98
00:05:10,130 --> 00:05:12,530
He will be joining
Acaba a little bit later

99
00:05:12,530 --> 00:05:14,870
with that unberthing
conference with controllers

100
00:05:14,870 --> 00:05:17,710
down here on the ground.

101
00:05:17,710 --> 00:05:19,630
Meanwhile, our Russian
cosmonauts onboard are

102
00:05:19,630 --> 00:05:23,740
continuing for the departure
of their Soyuz craft.

103
00:05:23,740 --> 00:05:26,640
Commander Padalka doing
some crew departure preps

104
00:05:26,640 --> 00:05:30,050

as he gets some things in
order for his descent back

105

00:05:30,050 --> 00:05:32,450
down the Earth's surface
in his Soyuz spacecraft

106

00:05:32,450 --> 00:05:34,190
on this coming Sunday.

107

00:05:34,190 --> 00:05:37,350
Also storing a few
items inside and setting

108

00:05:37,350 --> 00:05:40,410
up some experiment equipment
for the Immuno experiment,

109

00:05:40,410 --> 00:05:43,030
which he was assisted
Sergei Revin in today,

110

00:05:43,030 --> 00:05:46,560
and will be conducting tomorrow,
which looks to track any changes

111

00:05:46,560 --> 00:05:48,950
in the immune systems of
these astronauts during their

112

00:05:48,950 --> 00:05:51,280
long-duration spaceflights.

113

00:05:51,280 --> 00:05:53,250
And as mentioned Sergei
Revin now is working

114

00:05:53,250 --> 00:05:55,970
on that immune experiment
himself today,

115

00:05:55,970 --> 00:06:00,060

taking some blood collection samples and then storing them.

116

00:06:00,060 --> 00:06:03,690

Some of those will be brought back down on the Soyuz craft

117

00:06:03,690 --> 00:06:08,420

as it does have a limited amount of space for a down mass,

118

00:06:08,420 --> 00:06:12,860

returning things like experiment samples, or vital hardware

119

00:06:12,860 --> 00:06:15,170

for testing, are things of that nature.

120

00:06:15,170 --> 00:06:17,460

So he was doing that Immuno experiment

121

00:06:17,460 --> 00:06:20,850

and gathering some more equipment for Soyuz storage.

122

00:06:20,850 --> 00:06:23,400

Our thierd Russian cosmonaut, Yuri Malenchenko,

123

00:06:23,400 --> 00:06:26,560

will remain on board the station following the departure

124

00:06:26,560 --> 00:06:29,150

of the other two Russians, was setting up

125

00:06:29,150 --> 00:06:32,000

and testing some proximity
communications equipment gear

126

00:06:32,000 --> 00:06:34,060

today inside of the
Russian segment.

127

00:06:34,060 --> 00:06:37,440

It consists of a
antenna switchbox

128

00:06:37,440 --> 00:06:40,750

and also a control panel
for the European ATV,

129

00:06:40,750 --> 00:06:43,150

or the automated transfer
vehicle another one

130

00:06:43,150 --> 00:06:45,620

of these unmanned cargo crafts
that is currently docked