
International Space Station Flight Control Room
JOHNSON SPACE CENTER, HOUSTON, TEXAS

1
00:00:01,840 --> 00:00:03,160
Good morning.

2
00:00:03,160 --> 00:00:04,720
This is Mission Control Houston.

3
00:00:04,720 --> 00:00:06,950
Welcome and thank you for
joining us for today's edition

4
00:00:06,950 --> 00:00:11,490
of ISS Update this
Tuesday, September 18.

5
00:00:11,490 --> 00:00:13,950
We're now getting a live view
inside the International Space

6
00:00:13,950 --> 00:00:15,210
Station Flight Control Room

7
00:00:15,210 --> 00:00:17,470
where the team has been
monitoring the systems aboard

8
00:00:17,470 --> 00:00:19,650
the station and supporting
today's activities

9
00:00:19,650 --> 00:00:23,480
of the Expedition
33 crew members.

10
00:00:23,480 --> 00:00:24,980
Leading the Orbit Two team here

11
00:00:24,980 --> 00:00:28,180
in the station flight control
room today is Flight Director

12
00:00:28,180 --> 00:00:29,010
Tony Ceccaci.

13
00:00:29,010 --> 00:00:32,560
He's just entering the
room now here in the,

14
00:00:32,560 --> 00:00:36,620
the center about to take
a seat at his console.

15
00:00:38,940 --> 00:00:41,650
Now aboard the International
Space Station,

16
00:00:41,650 --> 00:00:45,880
a three-member crew, at
the helm as commander

17
00:00:45,880 --> 00:00:48,920
of the complex is NASA
astronaut Suni Williams

18
00:00:48,920 --> 00:00:52,710
with Flight Engineers Russian
cosmonaut Yuri Malenchenko

19
00:00:52,710 --> 00:00:54,730
and Japanese astronaut
Aki Hoshide

20
00:00:54,730 --> 00:00:57,480
who will work aboard the
station as a three-member crew

21
00:00:57,480 --> 00:00:59,560
until the arrival of
three new crew members

22
00:00:59,560 --> 00:01:01,980
in mid-to-late October.

23
00:01:03,810 --> 00:01:06,090
Malenchenko, Williams
and Hoshide arrived

24
00:01:06,090 --> 00:01:09,000
at the International
Space Station

25
00:01:09,000 --> 00:01:12,350
after docking their
Soyuz spacecraft TMA-05M

26
00:01:12,350 --> 00:01:15,210
to the Rassvet module
on July 16.

27
00:01:15,210 --> 00:01:19,750
Today they will complete
66 days in space.

28
00:01:19,750 --> 00:01:22,830
Space station with its
crew aboard is now flying

29
00:01:22,830 --> 00:01:29,240
at an altitude of a little
more than 260 statute miles.

30
00:01:29,240 --> 00:01:32,370
The orbiting facility is
on a southeastern track.

31
00:01:32,370 --> 00:01:37,590
It's just about to
make to make a turn

32

00:01:37,590 --> 00:01:42,070
for a northeastern track just
coming across the southern ocean

33
00:01:42,070 --> 00:01:47,360
and has just made its way
toward an orbital sunset,

34
00:01:47,360 --> 00:01:53,630
will be passing across Australia
soon in about 15 minutes.

35
00:01:53,630 --> 00:01:57,330
The Expedition 33 crew kicked
off its day with the first

36
00:01:57,330 --> 00:01:59,050
of two daily planning
conferences

37
00:01:59,050 --> 00:02:01,010
with ground controllers
around the world

38
00:02:01,010 --> 00:02:05,620
to review the day's activities
and plan the next set of tasks.

39
00:02:05,620 --> 00:02:08,690
Today the station crew has
another light day of duty coming

40
00:02:08,690 --> 00:02:09,930
after the recent departure

41
00:02:09,930 --> 00:02:14,460
of their previous Expedition
32 crewmates on Sunday.

42
00:02:16,640 --> 00:02:19,500

After some morning
work prep in the first

43
00:02:19,500 --> 00:02:24,020
of her daily two-hour exercise
sessions of using the treadmill,

44
00:02:24,020 --> 00:02:27,220
Commander Williams turned
her attention to science.

45
00:02:27,220 --> 00:02:29,740
Williams spent a couple
hours this morning working

46
00:02:29,740 --> 00:02:33,660
on research known as the
Reversible Figures experiment

47
00:02:33,660 --> 00:02:37,030
that studies whether the
perception of a figure

48
00:02:37,030 --> 00:02:39,530
that can normally be seen
to change of perspective

49
00:02:39,530 --> 00:02:42,470
or orientation in two
different ways is affected

50
00:02:42,470 --> 00:02:45,040
by microgravity.

51
00:02:45,040 --> 00:02:47,180
Williams is also
activating and checking

52
00:02:47,180 --> 00:02:49,360
out the Erasmus Recording

Binocular

53
00:02:49,360 --> 00:02:51,410
in the Columbus module,

54
00:02:51,410 --> 00:02:53,320
be performing some
medical experiments

55
00:02:53,320 --> 00:02:57,880
and will install the replacement
desiccant packs into the MERLIN,

56
00:02:57,880 --> 00:03:02,030
or the microgravity
experiment research locker.

57
00:03:03,130 --> 00:03:05,960
Also today, Williams and
Flight Engineer Aki Hoshide are

58
00:03:05,960 --> 00:03:09,870
participating in an onboard
training session in advance

59
00:03:09,870 --> 00:03:12,080
of next month's capture
and berthing

60
00:03:12,080 --> 00:03:16,670
of the second Dragon spacecraft
to arrive at the space station.

61
00:03:16,670 --> 00:03:19,350
The duo will follow their
onboard training session

62
00:03:19,350 --> 00:03:22,130
reviewing rendezvous
procedures with a conference

63
00:03:22,130 --> 00:03:24,100
with ground controllers.

64
00:03:26,590 --> 00:03:29,510
Hoshide took closeout photos

65
00:03:29,510 --> 00:03:34,070
of the docked Automated Transfer
Vehicle-3, or "Edoardo Amaldi",

66
00:03:34,070 --> 00:03:36,910
which arrived earlier this
year in March bringing

67
00:03:36,910 --> 00:03:40,570
with it station and crew
supplies, now filled with trash

68
00:03:40,570 --> 00:03:43,610
and unneeded items, and
packed for its disposal

69
00:03:43,610 --> 00:03:46,110
after it undocks from the
space station next week

70
00:03:46,110 --> 00:03:48,330
on September 25.

71
00:03:50,720 --> 00:03:54,830
Hoshide also activated the
Low Flow Fluid Transfer Pump

72
00:03:54,830 --> 00:03:58,510
to transfer fluid
to a wastewater bus,

73
00:03:58,510 --> 00:04:01,080

performed maintenance
on the Waste

74
00:04:01,080 --> 00:04:05,840
and Hygiene Compartment shown
here and will analyze water

75
00:04:05,840 --> 00:04:07,760
from the Environmental
Health System

76
00:04:07,760 --> 00:04:11,930
in the Total Organic
Carbon Analyzer,

77
00:04:11,930 --> 00:04:13,820
or the Water Recovery System.

78
00:04:13,820 --> 00:04:17,300
And in the Russian
side of the house,

79
00:04:17,300 --> 00:04:20,390
with two of his cosmonaut
crewmates now back on Earth,

80
00:04:20,390 --> 00:04:23,210
Malenchenko spent this morning
with some housekeeping items

81
00:04:23,210 --> 00:04:26,730
as well as performed regular
maintenance to the Sozh system.

82
00:04:26,730 --> 00:04:29,600
This is the Russian
life support system.

83
00:04:29,600 --> 00:04:31,670
He's also downloading

external temperature

84
00:04:31,670 --> 00:04:35,820
and pressure sensor data as part
of a Russian science payload,

85
00:04:35,820 --> 00:04:37,600
known as Identification,

86
00:04:37,600 --> 00:04:40,780
that studies the station's
dynamic loads during events

87
00:04:40,780 --> 00:04:44,350
such as dockings and reboosts.

88
00:04:44,350 --> 00:04:45,850
And each of the crew
members will put

89
00:04:45,850 --> 00:04:46,950
in their daily two hours

90
00:04:46,950 --> 00:04:49,810
of exercise using the
onboard gym equipment.

91
00:04:49,810 --> 00:04:52,390
That includes the station
bicycle, a treadmill

92
00:04:52,390 --> 00:04:54,720
and an advanced resistive
exercise device

93
00:04:54,720 --> 00:04:58,260
that simulates weightlifting
here on Earth.

94

00:04:58,260 --> 00:04:59,650
The crew will then wrap the day

95
00:04:59,650 --> 00:05:03,890
with a final daily planning
conference with the ground