1
00:00:02,040 --> 00:00:05,060
Welcome to the International
Space Station flight

2
00:00:05,060 --> 00:00:05,820
control room.

3
00:00:05,820 --> 00:00:10,630
This is mission control
Houston, Thursday, August 23,

4
00:00:10,630 --> 00:00:12,440
as a team of flight
controllers watching

5
00:00:12,440 --> 00:00:17,270
over the Expedition 32 crew's
shoulders throughout its work

6
00:00:17,270 --> 00:00:19,870
day aboard the International
Space Station.

7
00:00:19,870 --> 00:00:21,630
The team today's being led

8
00:00:21,630 --> 00:00:24,880
by flight director
Tomas Gonzales Torres.

9
00:00:24,880 --> 00:00:28,160
He's been overseeing the team
since early Thursday morning

10
00:00:28,160 --> 00:00:30,230
and the team will be on console

11
00:00:30,230 --> 00:00:32,530
until mid-to-late

afternoon handing

12
00:00:32,530 --> 00:00:34,660
over to the oncoming shift.

13
00:00:34,660 --> 00:00:37,110
He's joined on console
by Robert Hanley,

14
00:00:37,110 --> 00:00:39,140
who is handling the
communications duties

15
00:00:39,140 --> 00:00:41,950
between the Houston
flight control team

16
00:00:41,950 --> 00:00:45,260
and the crew aboard the
International Space Station.

17
00:00:45,260 --> 00:00:48,120
That space station
is currently orbiting

18
00:00:48,120 --> 00:00:52,560
in a new record altitude for
the International Space Station.

19
00:00:52,560 --> 00:00:55,910
The current average altitude
of the complex is now

20
00:00:55,910 --> 00:01:02,470
about 259 statute
miles, about 416 km.

21
00:01:02,470 --> 00:01:06,670
That is a new altitude or at
least average altitude record

22
00:01:06,670 --> 00:01:11,130
for the station following
Wednesday's two-part reboost

23
00:01:11,130 --> 00:01:12,440
maneuver that was conducted

24
00:01:12,440 --> 00:01:16,310
by the European Automated
Transfer Vehicle that's docked

25
00:01:16,310 --> 00:01:19,490
to the aft end of the Russian
segment of the station.

26
00:01:19,490 --> 00:01:23,260
The ATV-3 known as the
Edoardo Amaldi performed

27
00:01:23,260 --> 00:01:27,420
that reboost maneuver in
two parts Wednesday morning

28
00:01:27,420 --> 00:01:32,700
and the result of that of course
is the current orbital average

29
00:01:32,700 --> 00:01:35,790
altitude of about
259 statute miles.

30
00:01:35,790 --> 00:01:40,350
The station currently
is on the dark side

31
00:01:40,350 --> 00:01:44,480
of the Earth approaching the
Philippines from the North West,

32
00:01:44,480 --> 00:01:48,390
tracking southeasterly, and
will fly across portions

33
00:01:48,390 --> 00:01:52,600
of Australia before heading
across central New Zealand,

34
00:01:52,600 --> 00:01:59,030
then out into an orbital sunrise
high above the South Pacific.

35
00:02:00,740 --> 00:02:04,410
The crew on board,
Expedition 32,

36
00:02:04,410 --> 00:02:07,610
three of the crew members
are enjoying their 101st day

37
00:02:07,610 --> 00:02:11,360
in space, 99 of those aboard
the International Space Station.

38
00:02:11,360 --> 00:02:14,510
Those three being the
commander of expedition 32,

39
00:02:14,510 --> 00:02:17,200
Gennady Padalka from Russia.

40
00:02:17,200 --> 00:02:20,470
He's joined by Sergei
Revin from Russia also

41
00:02:20,470 --> 00:02:22,930
and Joe Acaba, US astronaut.

42
00:02:22,930 --> 00:02:26,860

Those three launched to
the station back in mid-May

43
00:02:26,860 --> 00:02:30,390
and will be aboard the
complex, plan to head home

44
00:02:30,390 --> 00:02:33,840
on Sunday, September 16.

45
00:02:33,840 --> 00:02:36,660
The other three crew members,
the newest three crew members

46
00:02:36,660 --> 00:02:39,430
on a long-duration
mission aboard the station,

47
00:02:39,430 --> 00:02:44,640
are Russian Yuri Malenchenko
and US astronaut Suni Williams

48
00:02:44,640 --> 00:02:50,450
and then Japanese Aerospace
Exploration Agency astronaut Aki

49
00:02:50,450 --> 00:02:53,060
Hoshide, Akihiko Hoshide.

50
00:02:53,060 --> 00:02:56,800
Those three arrived at the
station back in mid July.

51
00:02:56,800 --> 00:03:00,180
They are enjoying their
40th day in space,

52
00:03:00,180 --> 00:03:04,220
38 of those now aboard the
International Space Station .s

53
00:03:04,220 --> 00:03:08,510
It's quite a busy day for
the crew aboard the complex

54
00:03:08,510 --> 00:03:12,860
with some human exploration
experiment work being conducted

55
00:03:12,860 --> 00:03:14,170
by the Russian crewmembers

56
00:03:14,170 --> 00:03:20,430
on board while the three US
operating system astronauts,

57
00:03:20,430 --> 00:03:25,140
Joe Acaba, Suni Williams and
Aki Hoshide spent a good deal

58
00:03:25,140 --> 00:03:28,140
of their morning and now
wrapping up the activities

59
00:03:28,140 --> 00:03:33,690
in the US airlock Quest
associated with the checkout

60
00:03:33,690 --> 00:03:35,760
of their extravehicular
mobility units.

61
00:03:35,760 --> 00:03:39,130
They're doing on orbit
fit check verification.

62
00:03:39,130 --> 00:03:41,620
They've been doing for
quite a bit of the morning

63
00:03:41,620 --> 00:03:44,320
with a good bit of interaction

64
00:03:44,320 --> 00:03:47,340
with the flight control
team here on the ground.

65
00:03:47,340 --> 00:03:51,230
The EVA team that is
preparing for Suni Williams

66
00:03:51,230 --> 00:03:54,070
and Aki Hoshide's
spacewalk planned

67
00:03:54,070 --> 00:03:57,000
for next week on August 30.

68
00:03:57,000 --> 00:04:01,940
A spacewalk that will include
the two astronauts replacing a

69
00:04:01,940 --> 00:04:05,720
faulty power relay unit on the
station's truss which is known

70
00:04:05,720 --> 00:04:08,770
as a main bus switching unit.

71
00:04:16,080 --> 00:04:21,480
Additionally some additional
work by the seventh crew member,

72
00:04:21,480 --> 00:04:25,880
if you will, onboard Robonaut 2
is under way aboard the station

73
00:04:25,880 --> 00:04:28,750
as well back in the

US laboratory Destiny.

74
00:04:28,750 --> 00:04:33,200
Robonaut 2 has been
activated to assist

75
00:04:33,200 --> 00:04:38,380
in learning how it can help crew
members by manipulating switches

76
00:04:38,380 --> 00:04:42,060
and pushbuttons on task panels
that are strategically mounted

77
00:04:42,060 --> 00:04:44,460
in front of Robonaut 2.

78
00:04:44,460 --> 00:04:51,600
That robot is being operated
by a team of engineers

79
00:04:51,600 --> 00:04:55,490
above us here in the
flight control room

80
00:04:55,490 --> 00:04:58,450
up on the fifth floor of
the mission control center.

81
00:04:58,450 --> 00:05:02,980
The crew's interacting a little
bit with Robonaut 2 in terms

82
00:05:02,980 --> 00:05:06,970
of activating all of its systems
and then letting the team

83
00:05:06,970 --> 00:05:12,310
on the ground conduct all
of the activities associated

84
00:05:12,310 --> 00:05:14,950
with the task panel remotely.

85
00:05:14,950 --> 00:05:17,050
So, busy for all
six crew members

86
00:05:17,050 --> 00:05:20,340
and Robonaut aboard the
International Space Station

87
00:05:20,340 --> 00:05:24,430
as the team works through
supporting all the crew's