1
00:00:01,920 --> 00:00:06,620
Good day and welcome to Mission Control Houston
where the team of flight controllers is watching

2
00:00:06,620 --> 00:00:12,090
over the activities of the Expedition 33 crew
aboard the International Space Station.

3
00:00:12,090 --> 00:00:16,840
Six crew members continuing their work and
research aboard the orbiting outpost commanded

4
00:00:16,840 --> 00:00:18,380
by Suni Williams.

5
00:00:18,380 --> 00:00:26,010
The other American on orbit now, Kevin Ford,
after his recent arrival in late October aboard

6
00:00:26,010 --> 00:00:28,660
Soyuz TMA-06M spacecraft.

7
00:00:28,660 --> 00:00:36,679
Also onboard are Yuri Malenchenko who has
been on, with Suni Williams since their arrival

8
00:00:36,679 --> 00:00:38,770
at the complex in July.

9
00:00:38,770 --> 00:00:45,219
And Akihiko Hoshide of the Japan Aerospace
Exploration Agency who rode up to the space

10
00:00:45,219 --> 00:00:47,829
station with the other two crew members.

11
00:00:47,829 --> 00:00:54,680
Ford rode up with two Russian Federal Space
Agency cosmonauts, Oleg Novitskiy and Evgeny

12
00:00:54,680 --> 00:00:55,819
Tarelkin.

13
00:00:55,819 --> 00:01:01,199
And they arrived at the International Space
Station on Oct. 25 and will be there through

14
00:01:01,199 --> 00:01:03,499
March next year.

15
00:01:03,499 --> 00:01:09,630
Today's activities aboard the International
Space Station are going to focus primarily

16
00:01:09,630 --> 00:01:19,090
on preparations of the new three crew members
for their activities aboard the space station,

17
00:01:19,090 --> 00:01:26,650
after they depart, after the other three crew
members depart and on preparations for the

18
00:01:26,650 --> 00:01:33,229
departure of Suni Williams, Yuri Malenchenko
and Aki Hoshide, which is scheduled for Sunday,

19
00:01:33,229 --> 00:01:34,610
Nov. 18.

20
00:01:34,610 --> 00:01:39,969
Today they're working on maintenance of
the Waste and Hygiene Compartment which is

21
00:01:39,969 --> 00:01:44,850
essentially the toilet system on the US operating
segment of the space station.

22
00:01:44,850 --> 00:01:49,640

There are two toilets that are basically the
same – one in the Russian segment, one in

23
00:01:49,640 --> 00:01:50,640
the US segment.

24
00:01:50,640 --> 00:01:56,390
This is some recorded video of Aki Hoshide
as he worked through the final steps in replacing

25
00:01:56,390 --> 00:02:03,520
a dose pump which is used to insert a certain
amount of pretreat liquid into the waste that

26
00:02:03,520 --> 00:02:08,500
is collected in the toilet and then that starts
the recycling process that eventually results

27
00:02:08,500 --> 00:02:15,170
after a lot of filtering and processing in
the water from the crew waste being used once

28
00:02:15,170 --> 00:02:21,150
again as clean drinking water aboard the International
Space Station, minimizing the need to send

29
00:02:21,150 --> 00:02:28,010
water up to the space station aboard resupply
craft and maximizing the uses of the resources

30
00:02:28,010 --> 00:02:30,520
aboard the space station.

31
00:02:30,520 --> 00:02:34,200
Yesterday the crew had a little bit of a hiccup
at the start of their day as the local area

32
00:02:34,200 --> 00:02:40,459
network servers aboard the space station failed,
and they have since restored all of those

33
00:02:40,459 --> 00:02:44,510
network servers and they're back to normal
working conditions with the computer network

34
00:02:44,510 --> 00:02:47,140
of laptops aboard the space station.

35
00:02:47,140 --> 00:02:50,230
Those were never critical to the functioning
of the space station.

36
00:02:50,230 --> 00:02:55,189
They were just used to share files and programs
with the laptops the crew uses for their research

37
00:02:55,189 --> 00:02:57,080
and operations throughout the day.

38
00:02:57,080 --> 00:03:03,819
And they were able to replace the hard drives
yesterday and then reboot the systems with

39
00:03:03,819 --> 00:03:09,670
images of the software that were already aboard
and then do a little bit of uptake and make

40
00:03:09,670 --> 00:03:14,610
that all work well again.

41
00:03:14,610 --> 00:03:20,849
We do have a lot of activity as Kevin Ford
gets ready to take command of the International

42
00:03:20,849 --> 00:03:21,849
Space Station.

43
00:03:21,849 --> 00:03:26,750
He'll be taking over for Suni Williams and

we have a lot of NASA TV coverage planned

44
00:03:26,750 --> 00:03:33,299
in the coming weeks of the departure of Suni Williams, Expedition 33 commander, and Yuri

45
00:03:33,299 --> 00:03:38,739
Malenchenko, the flight engineer and the Soyuz commander and Aki Hoshide of the Japan Aerospace

46
00:03:38,739 --> 00:03:41,349
Exploration Agency.

47
00:03:41,349 --> 00:03:46,890
That change of command ceremony is scheduled to be televised live.

48
00:03:46,890 --> 00:04:07,950
And we'll be bringing that to you at 1:15 p.m. central time on Saturday, Nov. 17.

49
00:04:07,950 --> 00:04:14,640
And then that ceremony Kevin Ford will officially take the reins of the International Space

50
00:04:14,640 --> 00:04:22,120
Station and then after Williams, Malenchenko and Hoshide depart, he and Oleg Novitskiy

51
00:04:22,120 --> 00:04:28,070
and Evgeny Tarelkin will be aboard the space station by themselves, and that will be until

52
00:04:28,070 --> 00:04:32,390
the arrival of the next three crew members going up to the space station, arrive there

53
00:04:32,390 --> 00:04:35,600
after a launch December the 19th.

54
00:04:35,600 --> 00:04:40,250
Tom Marshburn of NASA, Chris Hadfield of the
Canadian Space Agency and Roman Romanenko

55
00:04:40,250 --> 00:04:44,520
of the Russian Federal Space Agency will be
launching about 6:12 a.m. central time on

56
00:04:44,520 --> 00:04:51,390
December 19, and arriving at the space station
on Dec. 21, just a few days before Christmas

57
00:04:51,390 --> 00:04:53,260
about 7:30 a.m.

58
00:04:53,260 --> 00:04:54,260
Central time.

59
00:04:54,260 --> 00:04:59,200
Back to the rundown of all the coverage that's
coming up regarding the change of command

60
00:04:59,200 --> 00:05:05,581
ceremony and the departure, of course the
change of command ceremony at 1:15 p.m. Central

61
00:05:05,581 --> 00:05:09,060
time on Nov. 17, on Saturday.

62
00:05:09,060 --> 00:05:14,070
The following day on Sunday at 12:45 we'll
have farewell and hatch closure coverage.

63
00:05:14,070 --> 00:05:17,320
At 1:10 p.m. we'll have the hatch closure.

64
00:05:17,320 --> 00:05:20,380
And then at 4 p.m. we'll begin our undocking
coverage.

65
00:05:20,380 --> 00:05:25,550
That'll be followed by the planned undocking
from the space station of the Soyuz TMA-05M

66
00:05:25,550 --> 00:05:28,040
at 4:26 p.m.

67
00:05:28,040 --> 00:05:31,970
And then we'll have a slight break until
our landing coverage begins at 6:30 p.m. and

68
00:05:31,970 --> 00:05:37,810
then landing is set for 7:53 p.m. central
time as the Soyuz touches down on the steppe

69
00:05:37,810 --> 00:05:38,810
of Kazakhstan.

70
00:05:38,810 --> 00:05:44,250
We'll have post-landing video file at 9
a.m. the following day on Monday.

71
00:05:44,250 --> 00:05:47,430
We'll include available interviews with
the crew.

72
00:05:47,430 --> 00:05:52,770
Again all that coming up as we look for a
change of command and a change in crew and

73
00:05:52,770 --> 00:05:57,580
look forward to the arrival of the next crew
which will include what will eventually become

74
00:05:57,580 --> 00:06:01,300
the first Canadian commander of the International
Space Station.

75

00:06:01,300 --> 00:06:08,940
Here in Mission Control Houston Tomas Gonzales-Torres
is in charge of the team, working with Clay

76
00:06:08,940 --> 00:06:13,510
Anderson as the spacecraft communicator talking
with the crew about the activities going on

77
00:06:13,510 --> 00:06:17,870
aboard the space station, and they're working
with control centers around the world to make

78
00:06:17,870 --> 00:06:21,960
sure operations aboard the space station continue
smoothly.

79
00:06:21,960 --> 00:06:29,410
Those command centers in Moscow, Munich and
Tsukuba, Japan helping to make sure that all

80
00:06:29,410 --> 00:06:34,630
the important research going on aboard the
space station continues pace and that the