1
00:00:04,840 --> 00:00:03,610
now getting a live view inside the

2
00:00:06,640 --> 00:00:04,850
International Space Station flight

3
00:00:09,129 --> 00:00:06,650
control room where the team has been

4
00:00:10,180 --> 00:00:09,139
monitoring the systems aboard the space

5
00:00:12,400 --> 00:00:10,190
station and supporting the day's

6
00:00:16,660 --> 00:00:12,410
activities of the expedition 33 crew

7
00:00:18,279 --> 00:00:16,670
members leading the orbit 2 team here in

8
00:00:20,980 --> 00:00:18,289
the station flight control room today is

9
00:00:22,210 --> 00:00:20,990
flight director Chris Edelen shown here

10
00:00:25,450 --> 00:00:22,220
in the blue shirt and next to him

11
00:00:27,250 --> 00:00:25,460
serving as Capcom is NASA astronaut Kate

12
00:00:31,689 --> 00:00:27,260
Rubens who has been relaying all ground

13
00:00:32,860 --> 00:00:31,699

messages up to the crew now aboard the

14
00:00:34,930 --> 00:00:32,870
International Space Station his

15
00:00:36,610 --> 00:00:34,940
commander of the complex nasa astronaut

16
00:00:38,650 --> 00:00:36,620
suni williams with flight engineers

17
00:00:41,580 --> 00:00:38,660
russian cosmonaut yuri malenchenko and

18
00:00:44,020 --> 00:00:41,590
japanese astronaut aki hoshide a

19
00:00:45,670 --> 00:00:44,030
williams malenchenko and hoshide a

20
00:00:47,110 --> 00:00:45,680
arrived at the International Space

21
00:00:50,920 --> 00:00:47,120
Station after docking their soyuz

22
00:00:54,670 --> 00:00:50,930
spacecraft TMAO 5m to the rassvet module

23
00:00:57,340 --> 00:00:54,680
on July sixteenth today they complete 83

24
00:00:59,830 --> 00:00:57,350
days in space

25
00:01:01,900 --> 00:00:59,840
the space station with its crew aboard

26
00:01:05,649 --> 00:01:01,910
is flying at an altitude of a little

27
00:01:10,760 --> 00:01:05,659
more than 260 statute miles the orbiting

28
00:01:18,060 --> 00:01:16,080
just now coming across a Madagascar and

29
00:01:21,380 --> 00:01:18,070
I will eventually pass across the

30
00:01:24,920 --> 00:01:21,390
Arabian Sea and India

31
00:01:26,270 --> 00:01:24,930
the expedition 33 crew members kicked

32
00:01:27,770 --> 00:01:26,280
off the day with the first of two daily

33
00:01:29,930 --> 00:01:27,780
planning conferences with ground

34
00:01:31,460 --> 00:01:29,940
controllers around the world to review

35
00:01:34,530 --> 00:01:31,470
the day's activities and plan for the

36
00:01:40,719 --> 00:01:37,000
topping the news for today for the

37
00:01:42,719 --> 00:01:40,729
International Space Station a set of

38
00:01:44,770 --> 00:01:42,729

small amateur radio satellites that

39
00:01:47,890 --> 00:01:44,780
hitched a ride to the orbiting complex

40
00:01:50,380 --> 00:01:47,900
aboard the Japanese h2 Transfer Vehicle

41
00:01:52,630 --> 00:01:50,390
back in late July are being released

42
00:01:55,450 --> 00:01:52,640
into space that demonstrates another

43
00:01:57,940 --> 00:01:55,460
capability of the space station as well

44
00:02:06,550 --> 00:01:57,950
as the science each satellite is

45
00:02:08,410 --> 00:02:06,560
dedicated to research a couple of weeks

46
00:02:10,300 --> 00:02:08,420
ago flight engineer Aki hoshide a had

47
00:02:12,970 --> 00:02:10,310
mounted the small satellites known as

48
00:02:15,460 --> 00:02:12,980
cube SATs in the Japanese experiment

49
00:02:17,470 --> 00:02:15,470
module a small satellite orbital

50
00:02:19,390 --> 00:02:17,480
deployer that is being used to release

51
00:02:21,100 --> 00:02:19,400
the satellites the satellites were

52
00:02:24,370 --> 00:02:21,110
affixed to a slide table that carried

53
00:02:25,960 --> 00:02:24,380
them through the airlock with hatches

54
00:02:27,820 --> 00:02:25,970
closed on station side ho shedai

55
00:02:29,530 --> 00:02:27,830
commanded the slide table through the

56
00:02:34,000 --> 00:02:29,540
airlock and the hatch is open to the

57
00:02:35,170 --> 00:02:34,010
space side and in a choreographed steps

58
00:02:37,660 --> 00:02:35,180
between her shedai and flight

59
00:02:39,729 --> 00:02:37,670
controllers on the ground they commanded

60
00:02:43,270 --> 00:02:39,739
the Japanese experiment module remote

61
00:02:47,170 --> 00:02:43,280
manipulator system or the robotic arm to

62
00:02:49,509 --> 00:02:47,180
grapple the extended slide table aki

63
00:02:51,880 --> 00:02:49,519

then release the lock that holds the

64
00:02:54,850 --> 00:02:51,890
multi-purpose experiment platform onto

65
00:02:56,710 --> 00:02:54,860
the table the arm extracted the deployer

66
00:02:58,270 --> 00:02:56,720
from the slide table and her shedai then

67
00:03:01,720 --> 00:02:58,280
retracted the table back into the

68
00:03:03,400 --> 00:03:01,730
airlock the robotic arm was then moved

69
00:03:07,130 --> 00:03:03,410
to a deploy position that doesn't

70
00:03:13,050 --> 00:03:09,870
that a small satellite orbital deployer

71
00:03:16,170 --> 00:03:13,060
has two pods or shoots that holds up to

72
00:03:20,280 --> 00:03:16,180
three satellites there are a total of

73
00:03:22,560 --> 00:03:20,290
five satellites flight engineer hoja de

74
00:03:25,230 --> 00:03:22,570
then worked with the ground to command

75
00:03:28,410 --> 00:03:25,240
the release of the first two satellites

76
00:03:32,400 --> 00:03:28,420
the first satellite was released in

77
00:03:35,070 --> 00:03:32,410
orbit about a half hour ago after a

78
00:03:38,550 --> 00:03:35,080
countdown from three to launch at nine

79
00:03:40,710 --> 00:03:38,560
thirty seven a.m. central time hosted a

80
00:03:44,790 --> 00:03:40,720
then sent congratulations to the team on

81
00:03:47,340 --> 00:03:44,800
the successful deployment on the 55th

82
00:03:48,780 --> 00:03:47,350
anniversary of Sputnik 1 the first

83
00:03:50,729 --> 00:03:48,790
satellite I would be launched into space

84
00:03:54,559 --> 00:03:50,739
by the Russians that initiated the great

85
00:03:59,119 --> 00:03:57,119
meanwhile today commander Williams had

86
00:04:02,490 --> 00:03:59,129
performed a test of the COTS UHF

87
00:04:04,680 --> 00:04:02,500
communications unit that works in sync

88
00:04:06,479 --> 00:04:04,690

with the dragon crew command panel in

89
00:04:08,910 --> 00:04:06,489
advance of the pending arrival of the

90
00:04:11,580 --> 00:04:08,920
Dragon spacecraft to arrive at the

91
00:04:13,979 --> 00:04:11,590
station on october 10th the

92
00:04:15,839 --> 00:04:13,989
communications unit is an avionics box

93
00:04:17,370 --> 00:04:15,849
that plugs into the station to allow

94
00:04:19,379 --> 00:04:17,380
communication between the station

95
00:04:21,270 --> 00:04:19,389
through its antennas and the SpaceX

96
00:04:23,939 --> 00:04:21,280
Dragon by converting and relaying

97
00:04:25,920 --> 00:04:23,949
signals between the two spacecraft the

98
00:04:27,719 --> 00:04:25,930
crew command panel then allows the space

99
00:04:30,840 --> 00:04:27,729
station crew to interact with the Dragon

100
00:04:34,710 --> 00:04:30,850
spacecraft that a spacecraft being

101
00:04:37,320 --> 00:04:34,720
referred to as the SpaceX crs-1 mission

102
00:04:38,580 --> 00:04:37,330
will be the first commercial resupply

103
00:04:42,420 --> 00:04:38,590
mission to the International Space

104
00:04:45,060 --> 00:04:42,430
Station the Dragon capsule that will be

105
00:04:47,760 --> 00:04:45,070
atop a falcon 9 rocket will roll out to

106
00:04:50,790 --> 00:04:47,770
the pad for liftoff mid-morning on

107
00:04:54,270 --> 00:04:50,800
Sunday followed by a launch that evening

108
00:04:59,650 --> 00:04:54,280
on october seven that 735 p.m. central

109
00:05:06,650 --> 00:05:03,110
commander Williams also has a robotics

110
00:05:08,570 --> 00:05:06,660
training session here today for a dragon

111
00:05:10,640 --> 00:05:08,580
grapple that is scheduled to occur next

112
00:05:14,630 --> 00:05:10,650
week at seven thirty two a.m. central

113
00:05:16,160 --> 00:05:14,640

time on October 10 when the S spacecraft

114
00:05:23,430 --> 00:05:16,170
arrives at the International Space

115
00:05:27,270 --> 00:05:25,410
earlier this morning commander Williams

116
00:05:30,120 --> 00:05:27,280
had installed a jumper between a remote

117
00:05:33,470 --> 00:05:30,130
power control module this is essentially

118
00:05:36,630 --> 00:05:33,480
a circuit breaker and the lab control

119
00:05:39,540 --> 00:05:36,640
electronics unit Williams also had

120
00:05:45,120 --> 00:05:39,550
measured the error velocity in node 1

121
00:05:47,040 --> 00:05:45,130
node 3 cupola in the lab she then had

122
00:05:50,830 --> 00:05:47,050
joined her today for this morning small

123
00:05:55,780 --> 00:05:53,470
and flight engineer who should I had

124
00:05:57,730 --> 00:05:55,790
worked to depress the Japanese

125
00:05:59,590 --> 00:05:57,740
experiment module airlock and extend

126
00:06:01,960 --> 00:05:59,600
that airlock slide table for the ground

127
00:06:04,510 --> 00:06:01,970
to operate the Japanese robotic arm to

128
00:06:07,180 --> 00:06:04,520
gravel that multi-purpose experiment

129
00:06:09,460 --> 00:06:07,190
platform carrying those satellites and

130
00:06:11,469 --> 00:06:09,470
preparation for this morning small

131
00:06:12,909 --> 00:06:11,479
satellite deploy again that first

132
00:06:20,940 --> 00:06:12,919
satellite just occurred at nine thirty

133
00:06:24,990 --> 00:06:23,250
the remaining three satellite

134
00:06:28,440 --> 00:06:25,000
scheduled to be released during this

135
00:06:32,930 --> 00:06:28,450
morning's broadcast to it at about 30

136
00:06:37,340 --> 00:06:35,570
so hoja de had powered up the cupola

137
00:06:39,410 --> 00:06:37,350
robotics workstations checked out the

138
00:06:42,290 --> 00:06:39,420

lab in the cupola robotics workstation

139
00:06:44,390 --> 00:06:42,300
he had walked to replace the filter and

140
00:06:47,030 --> 00:06:44,400
the potable water dispenser earlier this

141
00:06:49,460 --> 00:06:47,040
morning and participated and will

142
00:06:51,230 --> 00:06:49,470
participate in that onward robotics

143
00:06:53,600 --> 00:06:51,240
training session with commander Williams

144
00:06:57,800 --> 00:06:53,610
again this is in advance of the dragons

145
00:07:00,980 --> 00:06:57,810
spacecraft arrival next week on october

146
00:07:03,860 --> 00:07:00,990
tenth that launched again is scheduled

147
00:07:08,519 --> 00:07:03,870
to take place this sunday on october 7th

148
00:07:13,349 --> 00:07:10,829
and each of the crew members will put in

149
00:07:15,869 --> 00:07:13,359
their daily two hours of exercise using

150
00:07:18,449 --> 00:07:15,879
onboard gym equipment that includes a

151
00:07:20,459 --> 00:07:18,459
station bicycle a treadmill and an

152
00:07:22,399 --> 00:07:20,469
advanced resistive exercise device that

153
00:07:25,169 --> 00:07:22,409
simulates weightlifting here on earth

154
00:07:26,849 --> 00:07:25,179
the crew will then wrap up the day with

155
00:07:29,249 --> 00:07:26,859
a final daily planning conference with

156
00:07:33,569 --> 00:07:29,259
the ground and is scheduled to go to bed