



1  
00:00:04,150 --> 00:00:02,869  
good morning this is mission control

2  
00:00:06,309 --> 00:00:04,160  
houston welcome and thank you for

3  
00:00:11,749 --> 00:00:06,319  
joining us for today's edition of iss

4  
00:00:15,350 --> 00:00:13,830  
joining us now inside the international

5  
00:00:16,870 --> 00:00:15,360  
space station flight control room where

6  
00:00:18,550 --> 00:00:16,880  
the team has been monitoring the systems

7  
00:00:21,189 --> 00:00:18,560  
aboard the station and supporting the

8  
00:00:24,470 --> 00:00:21,199  
day's activities of the expedition 34

9  
00:00:29,029 --> 00:00:26,230  
leading the orbit 2 team here in the

10  
00:00:31,269 --> 00:00:29,039  
station flight control room

11  
00:00:33,830 --> 00:00:31,279  
today is uh flight director tomas

12  
00:00:35,910 --> 00:00:33,840  
gonzalez taurus shown here in this view

13  
00:00:37,270 --> 00:00:35,920

and next to him serving as capcom is

14

00:00:39,430 --> 00:00:37,280

leslie ringo

15

00:00:43,190 --> 00:00:39,440

relaying all ground messages up to the

16

00:00:47,029 --> 00:00:44,790

now aboard the international space

17

00:00:49,110 --> 00:00:47,039

station is commander of the complex nasa

18

00:00:50,869 --> 00:00:49,120

astronaut kevin ford with flight

19

00:00:53,670 --> 00:00:50,879

engineers russian cosmonauts oleg

20

00:00:54,790 --> 00:00:53,680

novitskiy and evgeny tarelkin who will

21

00:00:56,549 --> 00:00:54,800

work aboard the station as a

22

00:01:00,470 --> 00:00:56,559

three-member crew until the arrival of

23

00:01:02,790 --> 00:01:00,480

three new crew members in a few weeks

24

00:01:04,469 --> 00:01:02,800

ford novitskiy and turalkin arrived at

25

00:01:07,270 --> 00:01:04,479

the international space station after

26

00:01:10,149 --> 00:01:07,280

docking their soyuz tma-06m

27

00:01:14,070 --> 00:01:10,159

spacecraft shown here too the poisk

28

00:01:19,350 --> 00:01:14,080

module last month on october 25th

29

00:01:23,510 --> 00:01:21,429

meanwhile the space station with its

30

00:01:24,830 --> 00:01:23,520

crew flying aboard is flying at an

31

00:01:27,910 --> 00:01:24,840

altitude of

32

00:01:29,109 --> 00:01:27,920

about a little more than 260 statute

33

00:01:31,270 --> 00:01:29,119

miles

34

00:01:33,350 --> 00:01:31,280

the orbiting facility is on an east

35

00:01:35,590 --> 00:01:33,360

southeast track coming now across the

36

00:01:40,950 --> 00:01:35,600

north pacific ocean and will pass an

37

00:01:45,109 --> 00:01:43,109

the expedition 34 crew members began

38

00:01:47,830 --> 00:01:45,119

their day with some time this morning

39

00:01:50,870 --> 00:01:47,840

for work prep preparation

40

00:01:53,429 --> 00:01:50,880

breakfast morning hygiene and a daily

41

00:01:55,109 --> 00:01:53,439

station inspection the crew then kicked

42

00:01:56,469 --> 00:01:55,119

off the day with the first of two daily

43

00:01:58,630 --> 00:01:56,479

planning conferences with ground

44

00:02:00,230 --> 00:01:58,640

controllers around the world to review

45

00:02:05,910 --> 00:02:00,240

the day's activities and plan for the

46

00:02:10,630 --> 00:02:08,550

at the top of the task list commander

47

00:02:13,270 --> 00:02:10,640

kevin ford began his day early this

48

00:02:15,589 --> 00:02:13,280

morning working with the aquatic habitat

49

00:02:18,550 --> 00:02:15,599

that is home to madoka fish aboard the

50

00:02:20,390 --> 00:02:18,560

international space station

51  
00:02:22,869 --> 00:02:20,400  
researchers are using this facility that

52  
00:02:25,589 --> 00:02:22,879  
was brought up to the space station back

53  
00:02:28,550 --> 00:02:25,599  
this summer in july to look at how

54  
00:02:30,550 --> 00:02:28,560  
microgravity impacts marine life

55  
00:02:33,350 --> 00:02:30,560  
the ongoing studies will look at the

56  
00:02:37,589 --> 00:02:33,360  
impacts of radiation bone degradation

57  
00:02:39,830 --> 00:02:37,599  
muscle atrophy and developmental biology

58  
00:02:41,110 --> 00:02:39,840  
ford this morning had performed a water

59  
00:02:43,910 --> 00:02:41,120  
quality check

60  
00:02:45,910 --> 00:02:43,920  
measuring the concentration of ammonium

61  
00:02:49,110 --> 00:02:45,920  
nitrate and nitrate in the water at that

62  
00:02:51,509 --> 00:02:49,120  
aquatic habitat

63  
00:02:53,350 --> 00:02:51,519

commander ford then uh moved along to

64

00:02:54,550 --> 00:02:53,360  
more research on orbit

65

00:02:56,790 --> 00:02:54,560  
he had

66

00:02:58,470 --> 00:02:56,800  
performed a new data takes with its

67

00:03:00,150 --> 00:02:58,480  
spheres experiment

68

00:03:01,990 --> 00:03:00,160  
shown here in this video that was

69

00:03:04,309 --> 00:03:02,000  
downlinked from earlier this morning

70

00:03:06,550 --> 00:03:04,319  
that employs three bowling ball

71

00:03:09,509 --> 00:03:06,560  
free-flying satellites known as

72

00:03:12,550 --> 00:03:09,519  
synchronized position hold engage

73

00:03:14,949 --> 00:03:12,560  
reorient experimental satellites these

74

00:03:16,630 --> 00:03:14,959  
satellites are used to test techniques

75

00:03:19,190 --> 00:03:16,640  
that could lead to advancements in

76  
00:03:21,030 --> 00:03:19,200  
automated dockings satellite servicing

77  
00:03:24,869 --> 00:03:21,040  
spacecraft assembly and emergency

78  
00:03:28,630 --> 00:03:26,390  
yesterday ground controllers in the

79  
00:03:31,110 --> 00:03:28,640  
mission control commanded the canada arm

80  
00:03:33,910 --> 00:03:31,120  
2 to walk off from the mobile base

81  
00:03:36,390 --> 00:03:33,920  
system power and data grapple fixture to

82  
00:03:39,110 --> 00:03:36,400  
the harmony power and data grapple

83  
00:03:41,910 --> 00:03:39,120  
fixture today commander ford had worked

84  
00:03:44,309 --> 00:03:41,920  
from inside the cupola to begin a

85  
00:03:46,710 --> 00:03:44,319  
routine inspection of the space station

86  
00:03:49,270 --> 00:03:46,720  
arm latching end effector by snapping a

87  
00:03:52,070 --> 00:03:49,280  
series of pre-identified photographs of

88  
00:03:53,830 --> 00:03:52,080

the snare cable

89

00:03:55,670 --> 00:03:53,840

and meanwhile on the russian side of the

90

00:03:58,309 --> 00:03:55,680

house flight engineers novitskiy and

91

00:04:00,309 --> 00:03:58,319

tarelkin

92

00:04:02,229 --> 00:04:00,319

work together to gather data for the

93

00:04:04,390 --> 00:04:02,239

russian scientific study known as

94

00:04:06,710 --> 00:04:04,400

typology which looks at the effect of

95

00:04:09,110 --> 00:04:06,720

long-term space flight on a crew

96

00:04:11,509 --> 00:04:09,120

member's psycho-physical state his

97

00:04:14,309 --> 00:04:11,519

ability to withstand stress and to

98

00:04:16,710 --> 00:04:14,319

perform and communicate

99

00:04:19,270 --> 00:04:16,720

novitskiy then replaced a couple fire

100

00:04:21,110 --> 00:04:19,280

extinguishers in the zvezda service

101  
00:04:22,550 --> 00:04:21,120  
module

102  
00:04:24,629 --> 00:04:22,560  
while tarekin

103  
00:04:26,550 --> 00:04:24,639  
performed regular daily maintenance to

104  
00:04:34,390 --> 00:04:26,560  
the serge with a russian life support

105  
00:04:38,310 --> 00:04:36,629  
we're getting a view again here inside

106  
00:04:40,550 --> 00:04:38,320  
the international space station flight

107  
00:04:42,790 --> 00:04:40,560  
control room this is the orbit 2 team

108  
00:04:44,629 --> 00:04:42,800  
who continues to monitor the systems and

109  
00:04:46,629 --> 00:04:44,639  
the crew's activities aboard the

110  
00:04:48,790 --> 00:04:46,639  
international space station meanwhile

111  
00:04:51,030 --> 00:04:48,800  
each of the crew members will uh put in

112  
00:04:53,430 --> 00:04:51,040  
their daily two hours of exercise using

113  
00:04:56,469 --> 00:04:53,440

the onboard gym equipment that includes

114

00:04:59,030 --> 00:04:56,479

a station bicycle a treadmill and an

115

00:05:02,469 --> 00:04:59,040

advanced resistive exercise device that

116

00:05:04,310 --> 00:05:02,479

simulates weightlifting here on earth

117

00:05:06,230 --> 00:05:04,320

the crew will then wrap the day with a

118

00:05:08,310 --> 00:05:06,240

final daily planning conference with the

119

00:05:15,590 --> 00:05:08,320

ground and is then scheduled to go to

120

00:05:21,110 --> 00:05:18,310

also activity back on earth three more

121

00:05:23,270 --> 00:05:21,120

crew members are in star city russia

122

00:05:25,189 --> 00:05:23,280

preparing for their launch next month to

123

00:05:26,950 --> 00:05:25,199

return the station to a six-member crew

124

00:05:28,629 --> 00:05:26,960

3435

125

00:05:30,550 --> 00:05:28,639

is reporting

126  
00:05:33,670 --> 00:05:30,560  
at the gagarin cosmonaut training center

127  
00:05:39,189 --> 00:05:33,680  
expedition 3435 prime crew members shown

128  
00:05:42,390 --> 00:05:40,790  
chris hadfield

129  
00:05:44,870 --> 00:05:42,400  
along with their backups conducted the

130  
00:05:46,390 --> 00:05:44,880  
second of two days of russian soyuz and

131  
00:05:49,029 --> 00:05:46,400  
russian segment qualification

132  
00:05:51,029 --> 00:05:49,039  
simulations and exams today

133  
00:05:53,270 --> 00:05:51,039  
this will lead to their final

134  
00:05:55,590 --> 00:05:53,280  
certification for flight and a december

135  
00:05:59,029 --> 00:05:55,600  
19 launch from the baikonur cosmodrome

136  
00:06:00,790 --> 00:05:59,039  
in kazakhstan in their soyuz tma-07m

137  
00:06:02,390 --> 00:06:00,800  
spacecraft

138  
00:06:06,469 --> 00:06:02,400

that will dock to the rassvet module of