



1
00:00:05,030 --> 00:00:03,590
good morning and welcome to mission

2
00:00:06,630 --> 00:00:05,040
control houston and the final

3
00:00:07,749 --> 00:00:06,640
international space station update of

4
00:00:09,350 --> 00:00:07,759
the year

5
00:00:11,190 --> 00:00:09,360
we're here with the international space

6
00:00:13,350 --> 00:00:11,200
station flight control team inside the

7
00:00:14,950 --> 00:00:13,360
space station flight control room where

8
00:00:16,790 --> 00:00:14,960
greg whitney is leading the team as

9
00:00:22,390 --> 00:00:16,800
today's flight director with help from

10
00:00:27,509 --> 00:00:24,150
on board the space station three members

11
00:00:29,029 --> 00:00:27,519
of expedition 34 are more or the six

12
00:00:31,029 --> 00:00:29,039
members of expedition 34 more than

13
00:00:32,790 --> 00:00:31,039

halfway through their day which began at

14

00:00:35,030 --> 00:00:32,800

midnight central time

15

00:00:36,069 --> 00:00:35,040

they are commander kevin ford and flight

16

00:00:38,869 --> 00:00:36,079

engineer

17

00:00:41,430 --> 00:00:38,879

tom marshburn of nasa russian flight

18

00:00:43,270 --> 00:00:41,440

engineers oleg novitskiy evgeny tarelkin

19

00:00:44,389 --> 00:00:43,280

and roman romanenko

20

00:00:46,630 --> 00:00:44,399

and canadian

21

00:00:51,350 --> 00:00:46,640

canadian space agency flight engineer

22

00:00:55,590 --> 00:00:53,670

ford novitskiy and tarelkin have been at

23

00:00:57,750 --> 00:00:55,600

the space station since october 25th

24

00:00:59,430 --> 00:00:57,760

when their soyuz

25

00:01:01,830 --> 00:00:59,440

vehicle docked to the russian poisk

26
00:01:04,549 --> 00:01:01,840
module they're now on their 65th day at

27
00:01:06,550 --> 00:01:04,559
the station in their 67th day in space

28
00:01:08,550 --> 00:01:06,560
and they were joined eight days ago by

29
00:01:10,830 --> 00:01:08,560
marshburn hadfield and romanenko who

30
00:01:12,390 --> 00:01:10,840
launched into space inside their soyuz

31
00:01:14,630 --> 00:01:12,400
tma-07

32
00:01:16,870 --> 00:01:14,640
on december 19th and docked the

33
00:01:18,149 --> 00:01:16,880
station's rossvet module on december

34
00:01:20,070 --> 00:01:18,159
21st

35
00:01:21,510 --> 00:01:20,080
they're on their 10th day in space and

36
00:01:24,710 --> 00:01:21,520
along with their fellow crew members are

37
00:01:27,190 --> 00:01:24,720
currently orbiting 252 miles above the

38
00:01:32,950 --> 00:01:27,200

atlantic ocean heading towards the tip

39

00:01:37,270 --> 00:01:35,109

after arriving just last week the new

40

00:01:39,749 --> 00:01:37,280

crew members got their first week in

41

00:01:41,990 --> 00:01:39,759

space off to a running start on monday

42

00:01:44,230 --> 00:01:42,000

with a full load of maintenance science

43

00:01:46,310 --> 00:01:44,240

and orientation activities but the

44

00:01:48,149 --> 00:01:46,320

entire crew took a rest on tuesday to

45

00:01:48,950 --> 00:01:48,159

celebrate christmas with the traditional

46

00:01:51,109 --> 00:01:48,960

meal

47

00:01:54,469 --> 00:01:51,119

gifts and calls to family members back

48

00:01:58,630 --> 00:01:56,550

they even sent some holiday cheer down

49

00:02:00,469 --> 00:01:58,640

to their teammates on the ground

50

00:02:01,749 --> 00:02:00,479

with a few songs including i'll be home

51

00:02:04,550 --> 00:02:01,759

for christmas

52

00:02:06,149 --> 00:02:04,560

and a special and a special message

53

00:02:08,229 --> 00:02:06,159

they're on the uh

54

00:02:09,589 --> 00:02:08,239

they're the 13th expedition crew to

55

00:02:13,990 --> 00:02:09,599

spend christmas together onboard the

56

00:02:17,910 --> 00:02:16,070

it was back to work on wednesday however

57

00:02:20,150 --> 00:02:17,920

ford worked on a couple of experiments

58

00:02:21,910 --> 00:02:20,160

including the lego bricks project which

59

00:02:23,750 --> 00:02:21,920

is aimed at demonstrating scientific

60

00:02:26,070 --> 00:02:23,760

principles for students and the

61

00:02:27,830 --> 00:02:26,080

reversible figures experiment which

62

00:02:29,910 --> 00:02:27,840

tests astronauts perception in

63

00:02:31,589 --> 00:02:29,920

microgravity

64

00:02:33,830 --> 00:02:31,599

hadfield and marshburn spent some more

65

00:02:35,670 --> 00:02:33,840

time getting oriented to life in space

66

00:02:37,830 --> 00:02:35,680

while their russian crewmates took part

67

00:02:39,670 --> 00:02:37,840

in some ongoing russian experiments that

68

00:02:44,070 --> 00:02:39,680

study various aspects of astronauts

69

00:02:47,589 --> 00:02:46,150

and yesterday hadfield started work

70

00:02:50,150 --> 00:02:47,599

that's continuing today with the

71

00:02:52,070 --> 00:02:50,160

neurospat experiment had field spent

72

00:02:54,869 --> 00:02:52,080

yesterday wearing a hat that measured

73

00:02:57,430 --> 00:02:54,879

brain waves for the experiment

74

00:02:59,509 --> 00:02:57,440

that experiment measures a crew member's

75

00:03:02,869 --> 00:02:59,519

spatial cognition and brain processing

76

00:03:06,550 --> 00:03:05,030

view of him with that cap on yesterday

77

00:03:09,030 --> 00:03:06,560

here

78

00:03:11,350 --> 00:03:09,040

meanwhile marshburn and ford continued

79

00:03:12,949 --> 00:03:11,360

to work on the lego project and ford

80

00:03:14,630 --> 00:03:12,959

worked with the station's treadmill

81

00:03:16,790 --> 00:03:14,640

performing some maintenance while

82

00:03:18,869 --> 00:03:16,800

navinsky tarelkin and romanenko drew

83

00:03:24,630 --> 00:03:18,879

blood samples to measure the volume of

84

00:03:28,309 --> 00:03:26,229

today the new crew members are focusing

85

00:03:31,190 --> 00:03:28,319

most of their efforts on orientation and

86

00:03:33,830 --> 00:03:31,200

a crew health care system drill while

87

00:03:35,350 --> 00:03:33,840

ford works on the in space 3 experiment

88

00:03:37,589 --> 00:03:35,360

which studies the fundamental behavior

89

00:03:40,390 --> 00:03:37,599

of magnetic colloidal fluids under the

90

00:03:41,910 --> 00:03:40,400

influence of various magnetic fields

91

00:03:43,350 --> 00:03:41,920

that's what's been going on in space