



1
00:00:04,950 --> 00:00:03,189
good day and welcome to mission control

2
00:00:07,110 --> 00:00:04,960
houston where flight director ron

3
00:00:08,710 --> 00:00:07,120
spencer and spacecraft communicator anna

4
00:00:10,470 --> 00:00:08,720
fisher are

5
00:00:12,789 --> 00:00:10,480
among the leaders of the team that is

6
00:00:14,390 --> 00:00:12,799
working to support the expedition 35

7
00:00:15,509 --> 00:00:14,400
crew aboard the international space

8
00:00:18,630 --> 00:00:15,519
station

9
00:00:19,910 --> 00:00:18,640
which currently is orbiting over western

10
00:00:21,590 --> 00:00:19,920
canada

11
00:00:23,590 --> 00:00:21,600
and of course commander of the

12
00:00:25,109 --> 00:00:23,600
international space station right now is

13
00:00:27,509 --> 00:00:25,119

chris hadfield the first canadian

14

00:00:28,630 --> 00:00:27,519

commander of the orbiting research

15

00:00:31,269 --> 00:00:28,640

outpost

16

00:00:33,270 --> 00:00:31,279

he's on orbit with nasa's tom marshburn

17

00:00:34,950 --> 00:00:33,280

and russia's roman romanenko and they're

18

00:00:37,750 --> 00:00:34,960

working through a variety of different

19

00:00:39,590 --> 00:00:37,760

activities today

20

00:00:42,150 --> 00:00:39,600

hadfield has spent the majority of his

21

00:00:43,830 --> 00:00:42,160

morning reinstalling the amine swingbed

22

00:00:46,069 --> 00:00:43,840

experiment it's a technology

23

00:00:47,830 --> 00:00:46,079

demonstrator that looks at whether a

24

00:00:50,549 --> 00:00:47,840

vacuum-generated

25

00:00:52,229 --> 00:00:50,559

amine system can effectively remove

26
00:00:55,110 --> 00:00:52,239
additional carbon dioxide from the

27
00:00:56,869 --> 00:00:55,120
international space station's atmosphere

28
00:00:59,510 --> 00:00:56,879
using smaller more efficient vacuum

29
00:01:01,830 --> 00:00:59,520
regeneration the components

30
00:01:04,390 --> 00:01:01,840
there are two different carbon dioxide

31
00:01:05,990 --> 00:01:04,400
removal systems in the u.s side of the

32
00:01:07,910 --> 00:01:06,000
station and one in the russian side of

33
00:01:09,750 --> 00:01:07,920
the station this is

34
00:01:11,510 --> 00:01:09,760
intended to eke out a little bit more of

35
00:01:13,510 --> 00:01:11,520
that carbon dioxide so that can be

36
00:01:15,109 --> 00:01:13,520
recycled

37
00:01:17,109 --> 00:01:15,119
at the end of the day hadfield also is

38
00:01:19,030 --> 00:01:17,119

going to process some samples from the

39

00:01:20,870 --> 00:01:19,040

coarsening and solid liquid mixtures

40

00:01:23,109 --> 00:01:20,880

experiment that is aimed at developing

41

00:01:25,350 --> 00:01:23,119

methods for manufacturing better metal

42

00:01:28,310 --> 00:01:25,360

alloys for a host of applications on

43

00:01:30,310 --> 00:01:28,320

earth hadfield also has a ham radio pass

44

00:01:33,270 --> 00:01:30,320

later today with the ann richards school

45

00:01:35,030 --> 00:01:33,280

in austin that is a school for young

46

00:01:36,950 --> 00:01:35,040

female leaders

47

00:01:38,710 --> 00:01:36,960

roman romanenko working with the

48

00:01:40,069 --> 00:01:38,720

matroshka experiment in the russian

49

00:01:41,749 --> 00:01:40,079

segment of the station today he's

50

00:01:44,389 --> 00:01:41,759

looking at radiation levels throughout

51
00:01:46,550 --> 00:01:44,399
the station complex he's also doing some

52
00:01:48,950 --> 00:01:46,560
transfer items for the progress 50

53
00:01:50,870 --> 00:01:48,960
spacecraft which is currently docked to

54
00:01:54,069 --> 00:01:50,880
the piers compartment at the end of the

55
00:01:56,310 --> 00:01:54,079
spa april uh and it's going to be uh

56
00:01:58,550 --> 00:01:56,320
later today working with the relaxskaia

57
00:02:00,389 --> 00:01:58,560
experiment

58
00:02:02,630 --> 00:02:00,399
tom marshburn is working with the

59
00:02:04,230 --> 00:02:02,640
advanced colloids experiment today

60
00:02:07,030 --> 00:02:04,240
that experiment looks at removing

61
00:02:09,430 --> 00:02:07,040
gravitational jarring and sedimentation

62
00:02:12,949 --> 00:02:09,440
so that it's possible to observe how

63
00:02:15,110 --> 00:02:12,959

order arises out of chaos and to learn

64

00:02:17,510 --> 00:02:15,120

how to control the process in these

65

00:02:19,910 --> 00:02:17,520

colloids which are mixtures of solids

66

00:02:21,830 --> 00:02:19,920

and liquids you also work with the setup

67

00:02:23,910 --> 00:02:21,840

for the marangoni experiment that's

68

00:02:25,990 --> 00:02:23,920

looking at surface tension of liquids in

69

00:02:27,830 --> 00:02:26,000

space that same effect you see when you

70

00:02:29,270 --> 00:02:27,840

have a wine glass and the legs trickle

71

00:02:31,509 --> 00:02:29,280

down the side

72

00:02:34,630 --> 00:02:31,519

today's crew earth observations include

73

00:02:36,550 --> 00:02:34,640

the Nile river delta and the Red Sea

74

00:02:39,589 --> 00:02:36,560

Johannesburg Africa

75

00:02:41,430 --> 00:02:39,599

Puerto Novo Benin and Saint Helena

76

00:02:43,990 --> 00:02:41,440

island there's also three different

77

00:02:45,830 --> 00:02:44,000

areas of uh volcanic activity that they

78

00:02:48,150 --> 00:02:45,840

had pointed out to them and

79

00:02:49,830 --> 00:02:48,160

stromboli and mount aetna of europe and

80

00:02:53,910 --> 00:02:49,840

kankar

81

00:02:56,869 --> 00:02:55,670

earlier today hadfield called down to

82

00:02:58,710 --> 00:02:56,879

mission control that the crew had

83

00:03:01,190 --> 00:02:58,720

completed all of its work for the day

84

00:03:02,790 --> 00:03:01,200

including job jar work and offered to

85

00:03:04,550 --> 00:03:02,800

take care of any other available work

86

00:03:06,710 --> 00:03:04,560

that mission control might have for them

87

00:03:08,309 --> 00:03:06,720

and as a

88

00:03:10,309 --> 00:03:08,319

result mission control likely is going

89

00:03:11,110 --> 00:03:10,319

to be sending up some additional tasks

90

00:03:12,790 --> 00:03:11,120

to

91

00:03:14,949 --> 00:03:12,800

deal with some full waste tanks for the

92

00:03:16,710 --> 00:03:14,959

station's toilets that are involved in

93

00:03:19,110 --> 00:03:16,720

the recycling system

94

00:03:20,869 --> 00:03:19,120

tonight at 7 25 p.m the station is

95

00:03:23,190 --> 00:03:20,879

scheduled to perform a reboost maneuver

96

00:03:25,350 --> 00:03:23,200

using the thrusters on the progress 49

97

00:03:27,270 --> 00:03:25,360

spacecraft that's stocked to the station

98

00:03:29,830 --> 00:03:27,280

that reboost will raise the station's

99

00:03:31,910 --> 00:03:29,840

altitude about three miles to prepare

100

00:03:34,789 --> 00:03:31,920

for the first same-day soyuz rendezvous

101

00:03:36,869 --> 00:03:34,799

and docking that's coming up on march 28

102

00:03:39,509 --> 00:03:36,879

with the upcoming crew members

103

00:03:41,350 --> 00:03:39,519

pavel vinogradov chris cassidy and

104

00:03:43,030 --> 00:03:41,360

alexander misurkin

105

00:03:45,910 --> 00:03:43,040

the burn is going to last 11 minutes and

106

00:03:48,869 --> 00:03:45,920

13 seconds and our nasa coverage begins