



1
00:00:11,509 --> 00:00:10,549
fairly busy day for the crew today on

2
00:00:13,509 --> 00:00:11,519
board

3
00:00:15,270 --> 00:00:13,519
many of them doing a lot of biological

4
00:00:16,630 --> 00:00:15,280
experiment work especially right out of

5
00:00:17,910 --> 00:00:16,640
bed this morning

6
00:00:19,670 --> 00:00:17,920
starting off with commander chris

7
00:00:21,590 --> 00:00:19,680
hadfield who was

8
00:00:24,470 --> 00:00:21,600
taking some blood sample collections for

9
00:00:26,310 --> 00:00:24,480
the ongoing nasa vascular study which is

10
00:00:27,750 --> 00:00:26,320
looking to determine the impact of long

11
00:00:29,589 --> 00:00:27,760
duration space flight on the blood

12
00:00:32,069 --> 00:00:29,599
vessels of astronauts

13
00:00:33,590 --> 00:00:32,079

hatfield will also be conducting a

14

00:00:35,110 --> 00:00:33,600

conference with search and rescue

15

00:00:37,030 --> 00:00:35,120

specialists down here on the ground and

16

00:00:39,430 --> 00:00:37,040

doing some departure prep

17

00:00:41,110 --> 00:00:39,440

for his upcoming landing as he prepares

18

00:00:43,670 --> 00:00:41,120

to depart from the international space

19

00:00:45,190 --> 00:00:43,680

station alongside with roman romanenko

20

00:00:47,670 --> 00:00:45,200

and tom marshburn

21

00:00:50,229 --> 00:00:47,680

they're looking to depart on

22

00:00:51,910 --> 00:00:50,239

may 13th houston time

23

00:00:53,590 --> 00:00:51,920

leaving the international space station

24

00:00:55,270 --> 00:00:53,600

and for their eventual landing in

25

00:00:58,229 --> 00:00:55,280

kazakhstan

26

00:01:00,310 --> 00:00:58,239

aside from that prep today hadfield

27

00:01:02,630 --> 00:01:00,320

right now is working with the microflow

28

00:01:04,549 --> 00:01:02,640

cytometer onboard the station and a

29

00:01:06,070 --> 00:01:04,559

little bit later this afternoon we'll be

30

00:01:08,710 --> 00:01:06,080

involved in a

31

00:01:10,870 --> 00:01:08,720

vip public affairs event

32

00:01:13,429 --> 00:01:10,880

moving on our russian cosmonaut pavo

33

00:01:14,870 --> 00:01:13,439

vinogradov also taking some saliva and

34

00:01:17,270 --> 00:01:14,880

blood collections and storing them in

35

00:01:19,590 --> 00:01:17,280

freezers on the russian segment for one

36

00:01:21,270 --> 00:01:19,600

of their ongoing biological studies

37

00:01:23,910 --> 00:01:21,280

he'll also be on the hook to downlink

38

00:01:26,789 --> 00:01:23,920

some of the video from the docking of

39

00:01:29,429 --> 00:01:26,799

the 51 progress vehicle that occurred

40

00:01:32,390 --> 00:01:29,439

just back on friday the teams were able

41

00:01:35,190 --> 00:01:32,400

to overcome a failed deployed antenna to

42

00:01:36,630 --> 00:01:35,200

guide the vehicle into a safe docking

43

00:01:37,830 --> 00:01:36,640

aside from that vienna ground off we'll

44

00:01:39,429 --> 00:01:37,840

be working throughout the russian

45

00:01:40,550 --> 00:01:39,439

segment to replace a number of smoke

46

00:01:42,710 --> 00:01:40,560

detectors

47

00:01:44,310 --> 00:01:42,720

and within that he'll be assisted by his

48

00:01:45,510 --> 00:01:44,320

fellow russian cosmonaut alexander

49

00:01:47,590 --> 00:01:45,520

misurkin

50

00:01:50,710 --> 00:01:47,600

aside from assisting vinogradov with

51
00:01:52,870 --> 00:01:50,720
that umkin involved in the lower body

52
00:01:54,789 --> 00:01:52,880
negative pressure training today

53
00:01:56,870 --> 00:01:54,799
that's a technique used on board the

54
00:01:59,190 --> 00:01:56,880
station to help simulate gravitational

55
00:02:00,709 --> 00:01:59,200
stress on the astronauts bodies can be

56
00:02:02,630 --> 00:02:00,719
used to increase the heart rate and

57
00:02:05,270 --> 00:02:02,640
blood pressure for these astronauts

58
00:02:07,429 --> 00:02:05,280
during their long-duration space flights

59
00:02:09,270 --> 00:02:07,439
at the end of his day misurkin will take

60
00:02:11,990 --> 00:02:09,280
part in the interactions experiment

61
00:02:14,470 --> 00:02:12,000
which is a rose cosmo study of personal

62
00:02:15,750 --> 00:02:14,480
cultural and national differences

63
00:02:18,630 --> 00:02:15,760

between these crew members and the

64

00:02:20,229 --> 00:02:18,640

impacts that it has on mutual perception

65

00:02:21,510 --> 00:02:20,239

of each other and also their group

66

00:02:23,750 --> 00:02:21,520

structure

67

00:02:25,030 --> 00:02:23,760

nasa astronaut chris cassidy spending a

68

00:02:26,869 --> 00:02:25,040

good amount of time today in the

69

00:02:28,630 --> 00:02:26,879

columbus module

70

00:02:31,670 --> 00:02:28,640

working with the ultrasound he was doing

71

00:02:33,430 --> 00:02:31,680

a scan of his uh spine today

72

00:02:35,190 --> 00:02:33,440

aside from that he'll be

73

00:02:36,470 --> 00:02:35,200

staying inside of columbus to do some

74

00:02:38,229 --> 00:02:36,480

troubleshooting

75

00:02:39,910 --> 00:02:38,239

checking out a leak on the water pump

76

00:02:42,070 --> 00:02:39,920

assembly number two in the columbus

77

00:02:45,350 --> 00:02:42,080

laboratory he'll be working with the

78

00:02:47,270 --> 00:02:45,360

columbus controllers in munich

79

00:02:49,350 --> 00:02:47,280

our third russian cosmonaut roman

80

00:02:51,589 --> 00:02:49,360

romanenko also doing that lower body

81

00:02:53,030 --> 00:02:51,599

negative pressure training today

82

00:02:54,550 --> 00:02:53,040

and spending a good amount of time

83

00:02:56,949 --> 00:02:54,560

inside the russian segment working on

84

00:03:00,070 --> 00:02:56,959

the electric nose experiment

85

00:03:02,470 --> 00:03:00,080

this is an electro electronic device

86

00:03:04,390 --> 00:03:02,480

used to measure the crew's exposure to

87

00:03:07,270 --> 00:03:04,400

any bacteria or fungi

88

00:03:09,910 --> 00:03:07,280

that may be present in the atmosphere

89

00:03:13,030 --> 00:03:09,920

also doing some undocking prep work is

90

00:03:13,990 --> 00:03:13,040

romanenko is the commander of that 33s

91

00:03:15,990 --> 00:03:14,000

vehicle

92

00:03:18,070 --> 00:03:16,000

that he'll be returning home in in just

93

00:03:20,790 --> 00:03:18,080

under two weeks from now with chris

94

00:03:23,430 --> 00:03:20,800

hadfield and tom marshburn

95

00:03:25,589 --> 00:03:23,440

nasa astronaut tom marshburn also

96

00:03:27,030 --> 00:03:25,599

working with that ultrasound on board

97

00:03:29,750 --> 00:03:27,040

the international space station quite a

98

00:03:31,830 --> 00:03:29,760

bit today who is on the hook to do a

99

00:03:33,830 --> 00:03:31,840

scan of the car toward

100

00:03:36,390 --> 00:03:33,840

also his bladder in his hand and then

101
00:03:38,550 --> 00:03:36,400
getting a crew choice option so

102
00:03:40,949 --> 00:03:38,560
he'll be working hand in hand with a

103
00:03:42,869 --> 00:03:40,959
team of biomedical scientists down here

104
00:03:44,830 --> 00:03:42,879
on the ground as he does that

105
00:03:48,630 --> 00:03:44,840
these astronauts able to

106
00:03:50,390 --> 00:03:48,640
conduct diagnose diagnosable imaging

107
00:03:52,630 --> 00:03:50,400
ultrasounds with very little training

108
00:03:54,550 --> 00:03:52,640
using the devices on board

109
00:03:56,390 --> 00:03:54,560
so aside from that marshman also doing

110
00:03:58,309 --> 00:03:56,400
some departure prep as he prepares to

111
00:04:00,470 --> 00:03:58,319
return home as well

112
00:04:01,830 --> 00:04:00,480
the other major activity taking place

113
00:04:03,910 --> 00:04:01,840

throughout this week on board the

114

00:04:05,509 --> 00:04:03,920

station will be involving the robotic

115

00:04:06,470 --> 00:04:05,519

arm and the external portion of the

116

00:04:08,229 --> 00:04:06,480

station

117

00:04:09,910 --> 00:04:08,239

today ground controllers here in houston

118

00:04:11,910 --> 00:04:09,920

are going to maneuver that robotic arm

119

00:04:14,309 --> 00:04:11,920

known as canadarm2

120

00:04:15,750 --> 00:04:14,319

over to grapple with the dexter device

121

00:04:18,229 --> 00:04:15,760

of the special purpose dextrous

122

00:04:19,590 --> 00:04:18,239

manipulator as they position it for the

123

00:04:21,830 --> 00:04:19,600

eventual start

124

00:04:24,629 --> 00:04:21,840

and resumption of the robotic refueling

125

00:04:26,310 --> 00:04:24,639

mission demonstration a remote satellite

126

00:04:28,790 --> 00:04:26,320

servicing demonstration taking place in

127

00:04:29,830 --> 00:04:28,800

the external international space station

128

00:04:32,390 --> 00:04:29,840

structure

129

00:04:33,909 --> 00:04:32,400

those tasks will be picking up tomorrow