



1
00:00:11,509 --> 00:00:09,350
it is thursday april 25th and the six

2
00:00:13,669 --> 00:00:11,519
human beings who are not on planet earth

3
00:00:15,589 --> 00:00:13,679
have spent this day taking care of the

4
00:00:17,510 --> 00:00:15,599
equipment that takes care of them on

5
00:00:19,429 --> 00:00:17,520
board the international space station

6
00:00:21,750 --> 00:00:19,439
and supporting a number of the science

7
00:00:23,670 --> 00:00:21,760
experiments that they're pursuing during

8
00:00:25,589 --> 00:00:23,680
expedition 35.

9
00:00:27,589 --> 00:00:25,599
after a morning planning conference

10
00:00:29,029 --> 00:00:27,599
today with the flight control teams all

11
00:00:31,429 --> 00:00:29,039
around the world commander chris

12
00:00:33,590 --> 00:00:31,439
hadfield used a vacuum cleaner for some

13
00:00:36,150 --> 00:00:33,600

routine cleaning of pressure release

14

00:00:39,030 --> 00:00:36,160

valves and the cabin depressurization

15

00:00:41,590 --> 00:00:39,040

assembly in the european space agency's

16

00:00:43,990 --> 00:00:41,600

columbus module he then moved to the

17

00:00:46,229 --> 00:00:44,000

station's airlock and spent time doing

18

00:00:48,950 --> 00:00:46,239

preventive maintenance on the spacesuits

19

00:00:51,029 --> 00:00:48,960

that are worn for spacewalks on the u.s

20

00:00:53,189 --> 00:00:51,039

segment of the space station he was

21

00:00:56,950 --> 00:00:53,199

cycling the pressure valves on those

22

00:00:58,950 --> 00:00:56,960

emu's and cleaning the cooling loops

23

00:01:01,590 --> 00:00:58,960

flight engineer pavel vinogradov started

24

00:01:04,229 --> 00:01:01,600

his day in the piers docking compartment

25

00:01:06,230 --> 00:01:04,239

stowing the orlan space suits and

26

00:01:08,870 --> 00:01:06,240

putting the last of the systems back

27

00:01:10,870 --> 00:01:08,880

into normal configuration after the

28

00:01:13,510 --> 00:01:10,880

spacewalk he conducted with flight

29

00:01:15,990 --> 00:01:13,520

engineer roman romanenko last week

30

00:01:19,190 --> 00:01:16,000

romanenko joined him for those tasks

31

00:01:22,149 --> 00:01:19,200

after he had an exercise session wearing

32

00:01:25,749 --> 00:01:22,159

a lower body negative pressure suit that

33

00:01:28,550 --> 00:01:25,759

uses a vacuum pull to assimilate gravity

34

00:01:30,950 --> 00:01:28,560

for the wearer it's a usual protocol for

35

00:01:33,990 --> 00:01:30,960

cosmonauts who are getting close to

36

00:01:36,149 --> 00:01:34,000

returning to earth romanenko hadfield

37

00:01:38,710 --> 00:01:36,159

and flight engineer tom marshburn are

38

00:01:41,749 --> 00:01:38,720

due to come home in mid-may when they

39

00:01:43,670 --> 00:01:41,759

will have finished up about 140 days in

40

00:01:46,230 --> 00:01:43,680

space on this mission

41

00:01:48,710 --> 00:01:46,240

flight engineer marshburn spent most of

42

00:01:51,670 --> 00:01:48,720

his day working with a life-size robot

43

00:01:53,830 --> 00:01:51,680

robonaut 2 is a technology demonstration

44

00:01:56,069 --> 00:01:53,840

aimed at developing better robotics for

45

00:01:58,310 --> 00:01:56,079

use in future exploration including

46

00:02:00,870 --> 00:01:58,320

robots that can do work

47

00:02:04,230 --> 00:02:00,880

today marshburn tele-robotically

48

00:02:06,709 --> 00:02:04,240

operated r2 via voice commands and

49

00:02:08,869 --> 00:02:06,719

wearing of a special helmet and gloves

50

00:02:11,270 --> 00:02:08,879

that translate his movements into the

51
00:02:13,270 --> 00:02:11,280
robot's movements this is all done with

52
00:02:15,350 --> 00:02:13,280
the intent to develop the robot that

53
00:02:16,949 --> 00:02:15,360
could do work outside of the station

54
00:02:19,750 --> 00:02:16,959
without risking crew members on a

55
00:02:23,110 --> 00:02:19,760
spacewalk as well as do more repetitive

56
00:02:24,949 --> 00:02:23,120
tasks that take place inside the station

57
00:02:27,750 --> 00:02:24,959
flight engineer alexander misurkin

58
00:02:29,910 --> 00:02:27,760
started assisting roman romanenko with

59
00:02:32,309 --> 00:02:29,920
his lower body negative pressure

60
00:02:34,949 --> 00:02:32,319
exercise this morning and then spent the

61
00:02:38,070 --> 00:02:34,959
rest of his morning working with russian

62
00:02:40,710 --> 00:02:38,080
science experiments after lunch misurkin

63
00:02:43,270 --> 00:02:40,720

did maintenance at the progress vehicle

64

00:02:46,309 --> 00:02:43,280

at the piers module emptying its water

65

00:02:48,309 --> 00:02:46,319

storage tanks while romanenko and

66

00:02:50,309 --> 00:02:48,319

vinogradov did more training with the

67

00:02:52,390 --> 00:02:50,319

toru system which allows crews to

68

00:02:54,550 --> 00:02:52,400

manually fly an approaching russian

69

00:02:56,229 --> 00:02:54,560

spacecraft if the automatic docking

70

00:02:58,149 --> 00:02:56,239

system failed

71

00:03:00,550 --> 00:02:58,159

hadfield spent his afternoon wrapping up

72

00:03:03,270 --> 00:03:00,560

the spacesuit maintenance and also

73

00:03:05,670 --> 00:03:03,280

conducted an amateur radio contact with

74

00:03:07,750 --> 00:03:05,680

students in far northern canada to

75

00:03:10,070 --> 00:03:07,760

answer questions about his mission

76

00:03:12,309 --> 00:03:10,080

cassidy and marshburn have a similar

77

00:03:14,470 --> 00:03:12,319

thing on their plan for the day talking

78

00:03:17,190 --> 00:03:14,480

with reporters at a portland maine

79

00:03:18,949 --> 00:03:17,200

television station and the sirius xm

80

00:03:21,430 --> 00:03:18,959

radio about the work that they've been

81

00:03:22,949 --> 00:03:21,440

doing during their time on board

82

00:03:25,190 --> 00:03:22,959

crews also been getting ready for the

83

00:03:27,750 --> 00:03:25,200

scheduled arrival of a new shipment of

84

00:03:29,910 --> 00:03:27,760

supplies in a progress cargo ship which

85

00:03:32,229 --> 00:03:29,920

launched on wednesday from the baikonur

86

00:03:36,149 --> 00:03:32,239

cosmodrome and is due at the zvezda

87

00:03:39,030 --> 00:03:36,159

modules docking port at 7 26 a.m houston

88

00:03:41,430 --> 00:03:39,040

time on friday the mission managers are

89

00:03:44,390 --> 00:03:41,440

still looking into options for ways to

90

00:03:47,270 --> 00:03:44,400

deploy a navigation antenna that failed

91

00:03:49,990 --> 00:03:47,280

to deploy yesterday those meetings still

92

00:03:51,750 --> 00:03:50,000

underway the crew members on board are

93

00:03:54,070 --> 00:03:51,760

looking forward to getting into that

94

00:03:56,309 --> 00:03:54,080

ship and unloading the fresh food and

95

00:03:58,229 --> 00:03:56,319

other goodies while they take time off

96

00:04:00,390 --> 00:03:58,239

duty over the weekend to get set for