

EXPEDITION 33



KEVIN FORD
Flight Engineer

K. FORD
K. ФОРД

1
00:00:04,710 --> 00:00:03,429
this is mission control houston the last

2
00:00:07,349 --> 00:00:04,720
week of the international space

3
00:00:09,430 --> 00:00:07,359
station's expedition 33 has been

4
00:00:11,749 --> 00:00:09,440
focusing on getting three of the crew

5
00:00:13,669 --> 00:00:11,759
members ready to return to earth after

6
00:00:15,669 --> 00:00:13,679
more than four months on orbit since

7
00:00:18,070 --> 00:00:15,679
their launch in mid-july station

8
00:00:20,550 --> 00:00:18,080
commander suni williams flight engineers

9
00:00:23,830 --> 00:00:20,560
at yuri malenchenko and aki hoshide be

10
00:00:25,750 --> 00:00:23,840
coming home sunday evening u.s time

11
00:00:27,750 --> 00:00:25,760
each day this past week each of the

12
00:00:29,750 --> 00:00:27,760
three of them has had several blocks of

13
00:00:32,389 --> 00:00:29,760

time on their schedule set aside for

14

00:00:34,630 --> 00:00:32,399

departure preparation that involves

15

00:00:36,790 --> 00:00:34,640

packing up their personal gear closing

16

00:00:38,790 --> 00:00:36,800

out some experiment operations

17

00:00:41,510 --> 00:00:38,800

packing those returning items into the

18

00:00:42,950 --> 00:00:41,520

soyuz as well as testing the soyuz

19

00:00:44,869 --> 00:00:42,960

systems itself

20

00:00:47,270 --> 00:00:44,879

they've also ramped up their daily

21

00:00:50,069 --> 00:00:47,280

exercise so they'll be in good shape to

22

00:00:52,150 --> 00:00:50,079

encounter gravity for malenchenko some

23

00:00:54,549 --> 00:00:52,160

of that exercise was done wearing the

24

00:00:57,670 --> 00:00:54,559

lower body negative pressure suit that's

25

00:01:00,630 --> 00:00:57,680

a russian protocol that uses a suit and

26
00:01:03,349 --> 00:01:00,640
air pressure to simulate gravity by

27
00:01:05,670 --> 00:01:03,359
pulling on his lower extremities

28
00:01:08,149 --> 00:01:05,680
hoshide had his last session with the

29
00:01:11,030 --> 00:01:08,159
integrated cardiovascular experiment

30
00:01:12,789 --> 00:01:11,040
which tries to quantify cardiac atrophy

31
00:01:14,390 --> 00:01:12,799
of the crew members during a long

32
00:01:16,789 --> 00:01:14,400
duration spaceflight

33
00:01:19,030 --> 00:01:16,799
he also did exercise for the sprint

34
00:01:20,070 --> 00:01:19,040
investigation which is looking to find

35
00:01:22,630 --> 00:01:20,080
out if

36
00:01:25,350 --> 00:01:22,640
high intensity exercise done in shorter

37
00:01:28,230 --> 00:01:25,360
sprints is better for fighting bone and

38
00:01:30,310 --> 00:01:28,240

muscle loss than long sessions of just

39

00:01:33,190 --> 00:01:30,320

moderate exercise

40

00:01:35,270 --> 00:01:33,200

on monday and again on friday williams

41

00:01:37,109 --> 00:01:35,280

malenchiko and hoshide suited up in

42

00:01:39,910 --> 00:01:37,119

their launch and entry suits and

43

00:01:41,910 --> 00:01:39,920

conducted soyuz descent drills as they

44

00:01:43,670 --> 00:01:41,920

get prepared to come home

45

00:01:45,990 --> 00:01:43,680

station maintenance continued all during

46

00:01:48,469 --> 00:01:46,000

the week even for the departing crew

47

00:01:51,109 --> 00:01:48,479

members williams and hoshide set up

48

00:01:53,429 --> 00:01:51,119

hardware for an upgrade to the wireless

49

00:01:54,870 --> 00:01:53,439

access points for the station's onboard

50

00:01:57,270 --> 00:01:54,880

computer network

51
00:01:59,350 --> 00:01:57,280
flight engineer kevin ford was also busy

52
00:02:01,590 --> 00:01:59,360
in maintenance this week changing out a

53
00:02:03,830 --> 00:02:01,600
valve in a water recovery system

54
00:02:06,149 --> 00:02:03,840
installing radiation area monitors

55
00:02:08,550 --> 00:02:06,159
throughout the station and installing a

56
00:02:11,510 --> 00:02:08,560
sensor kit for taking measurements of

57
00:02:13,830 --> 00:02:11,520
ultrasonic background noise that's for

58
00:02:16,550 --> 00:02:13,840
an investigation that seeks to develop

59
00:02:18,869 --> 00:02:16,560
technology that will be able to listen

60
00:02:21,030 --> 00:02:18,879
for a pressure leak on board the station

61
00:02:23,750 --> 00:02:21,040
to do that successfully the system would

62
00:02:27,030 --> 00:02:23,760
need to know what a non-leak noise

63
00:02:30,229 --> 00:02:27,040

sounds like and that's the goal of the

64

00:02:32,309 --> 00:02:30,239

sensor kit that ford was installing

65

00:02:33,910 --> 00:02:32,319

leaving the station didn't reduce the

66

00:02:36,309 --> 00:02:33,920

commitment of the crew members to

67

00:02:38,710 --> 00:02:36,319

sharing their experience of space life

68

00:02:40,790 --> 00:02:38,720

on wednesday hoshide answered questions

69

00:02:42,790 --> 00:02:40,800

about the flight posed by college

70

00:02:45,430 --> 00:02:42,800

students who were gathered at the scuba

71

00:02:48,150 --> 00:02:45,440

space center and on thursday

72

00:02:50,150 --> 00:02:48,160

williams and ford talked with elementary

73

00:02:52,710 --> 00:02:50,160

and secondary school students at the

74

00:02:55,910 --> 00:02:52,720

national air and space museum as part of

75

00:02:58,630 --> 00:02:55,920

national education week activities

76

00:03:00,390 --> 00:02:58,640

the crew continued its work while ground

77

00:03:03,990 --> 00:03:00,400

teams were planning a friday morning

78

00:03:06,390 --> 00:03:04,000

firing of engines on the 49 progress in

79

00:03:08,710 --> 00:03:06,400

a debris avoidance maneuver to nudge the

80

00:03:11,430 --> 00:03:08,720

station away from a possible conjunction

81

00:03:13,030 --> 00:03:11,440

with an unidentified piece of space junk

82

00:03:14,710 --> 00:03:13,040

what would be the second debris

83

00:03:17,030 --> 00:03:14,720

avoidance maneuver in a little more than

84

00:03:19,190 --> 00:03:17,040

two weeks time would not have any effect

85

00:03:20,949 --> 00:03:19,200

on the plans for the weekend's soyuz

86

00:03:23,190 --> 00:03:20,959

undocking and landing

87

00:03:26,070 --> 00:03:23,200

a ceremony marking the change from

88

00:03:29,270 --> 00:03:26,080

expedition 33 to expedition 34 is

89

00:03:32,229 --> 00:03:29,280

scheduled for saturday at 1 15 pm

90

00:03:35,190 --> 00:03:32,239

houston time expedition 34 officially

91

00:03:37,509 --> 00:03:35,200

begins and kevin ford becomes space

92

00:03:39,509 --> 00:03:37,519

station commander when sonny williams

93

00:03:43,430 --> 00:03:39,519

departs the station and that should take

94

00:03:45,589 --> 00:03:43,440

place at 4 26 p.m on sunday afternoon

95

00:03:47,750 --> 00:03:45,599

nasa tv will provide live coverage of

96

00:03:49,910 --> 00:03:47,760

the change of command ceremony the final

97

00:03:51,990 --> 00:03:49,920

farewell and hatch closure and the

98

00:03:53,990 --> 00:03:52,000

departure of williams malenchenko and

99

00:03:56,149 --> 00:03:54,000

hoshide from the station on sunday

100

00:03:58,470 --> 00:03:56,159

afternoon as well as their landing in

101

00:04:02,070 --> 00:03:58,480

northern kazakhstan sunday evening u.s