



1
00:00:14,150 --> 00:00:11,509
greetings from mission control houston

2
00:00:17,430 --> 00:00:14,160
and welcome to space station live it's

3
00:00:18,950 --> 00:00:17,440
thursday october 24 2013.

4
00:00:20,390 --> 00:00:18,960
you're joining us here inside of the

5
00:00:22,390 --> 00:00:20,400
international space station flight

6
00:00:24,070 --> 00:00:22,400
control room the johnson space center in

7
00:00:25,990 --> 00:00:24,080
houston texas

8
00:00:27,509 --> 00:00:26,000
inside the room right now the orbit 2

9
00:00:29,269 --> 00:00:27,519
team monitoring and supporting the

10
00:00:30,390 --> 00:00:29,279
astronauts onboard the international

11
00:00:32,069 --> 00:00:30,400
space station

12
00:00:34,389 --> 00:00:32,079
they're being led right now by flight

13
00:00:35,830 --> 00:00:34,399

director dina contella she's in the

14

00:00:37,190 --> 00:00:35,840

right side

15

00:00:39,030 --> 00:00:37,200

right next to another flight director

16

00:00:40,790 --> 00:00:39,040

jerry jason

17

00:00:42,869 --> 00:00:40,800

at the cap composition right now we have

18

00:00:44,310 --> 00:00:42,879

two astronauts supporting serving his

19

00:00:46,069 --> 00:00:44,320

communication link between the teams

20

00:00:48,069 --> 00:00:46,079

here and the astronauts in space they

21

00:00:50,150 --> 00:00:48,079

are steve bowen there on the top and

22

00:00:51,590 --> 00:00:50,160

right next to him is nasa astronaut kate

23

00:00:53,430 --> 00:00:51,600

rubins

24

00:00:56,389 --> 00:00:53,440

and the astronauts on board the crew

25

00:00:58,150 --> 00:00:56,399

expedition 37 led by russian cosmonaut

26
00:01:00,310 --> 00:00:58,160
fjord cheek in there in the front row on

27
00:01:02,709 --> 00:01:00,320
the left going across the back we have

28
00:01:05,509 --> 00:01:02,719
nasa astronaut karen nyberg and luca

29
00:01:07,830 --> 00:01:05,519
parmitano from the european space agency

30
00:01:09,350 --> 00:01:07,840
next to him nasa astronaut mike hopkins

31
00:01:11,510 --> 00:01:09,360
and then two russian cosmonauts on the

32
00:01:13,429 --> 00:01:11,520
end there oleg kotov and sergey

33
00:01:15,350 --> 00:01:13,439
ryazanskiy

34
00:01:17,590 --> 00:01:15,360
on board the international space station

35
00:01:19,910 --> 00:01:17,600
on both the u.s and russian sides a lot

36
00:01:21,990 --> 00:01:19,920
of work being done on spacewalking

37
00:01:24,310 --> 00:01:22,000
preparation and suits

38
00:01:26,630 --> 00:01:24,320

starting off with nasa astronauts mike

39

00:01:28,310 --> 00:01:26,640

hopkins and karen nyberg the two are

40

00:01:30,390 --> 00:01:28,320

spending pretty much their entire day

41

00:01:32,789 --> 00:01:30,400

today performing a remove and

42

00:01:34,789 --> 00:01:32,799

replacement activity on one of the fan

43

00:01:37,830 --> 00:01:34,799

pump separators inside of one of the

44

00:01:38,710 --> 00:01:37,840

emu's the extra vehicular mobility units

45

00:01:40,390 --> 00:01:38,720

the

46

00:01:43,510 --> 00:01:40,400

large white spacesuits that all

47

00:01:44,950 --> 00:01:43,520

astronauts wear on u.s based spacewalks

48

00:01:46,469 --> 00:01:44,960

you can see some video from a little bit

49

00:01:49,429 --> 00:01:46,479

earlier this morning we'll have

50

00:01:51,990 --> 00:01:49,439

extensive footage of that work today

51

00:01:54,149 --> 00:01:52,000

also be talking to one of our

52

00:01:55,830 --> 00:01:54,159

spacewalk flight controllers on the

53

00:01:58,469 --> 00:01:55,840

activity getting some more inside

54

00:02:00,709 --> 00:01:58,479

information and as they continue to do

55

00:02:02,950 --> 00:02:00,719

that task that again taking up much of

56

00:02:04,709 --> 00:02:02,960

mike hopkins and karen nyberg's day

57

00:02:06,789 --> 00:02:04,719

today

58

00:02:09,910 --> 00:02:06,799

also in that view you can see european

59

00:02:12,070 --> 00:02:09,920

astronaut luca parmitano who is wearing

60

00:02:14,949 --> 00:02:12,080

the spacesuit that they're working on

61

00:02:17,350 --> 00:02:14,959

all of this emu work being done ever

62

00:02:20,070 --> 00:02:17,360

since that july 16 spacewalk when

63

00:02:23,510 --> 00:02:20,080

parmitano discovered water leaking into

64

00:02:25,430 --> 00:02:23,520

his helmet that again back on july 16th

65

00:02:27,350 --> 00:02:25,440

aside from giving them a quick hand with

66

00:02:29,589 --> 00:02:27,360

that parmitano today

67

00:02:32,309 --> 00:02:29,599

working with the circadian rhythms

68

00:02:34,790 --> 00:02:32,319

experiment looking to understand how the

69

00:02:36,550 --> 00:02:34,800

bodily changes of microgravity affect

70

00:02:38,869 --> 00:02:36,560

the astronaut circadian rhythms or

71

00:02:41,589 --> 00:02:38,879

basically their natural sleep cycles how

72

00:02:43,509 --> 00:02:41,599

the body's able to adapt and perform and

73

00:02:46,790 --> 00:02:43,519

any effects that it has on the health

74

00:02:48,630 --> 00:02:46,800

status of long duration crew members

75

00:02:52,470 --> 00:02:48,640

aside from that he'll also be stowing a

76

00:02:54,390 --> 00:02:52,480

few of the emu tools once nyberg and

77

00:02:57,110 --> 00:02:54,400

hopkins are finished with their removing

78

00:02:59,110 --> 00:02:57,120

replacement work today also doing a an

79

00:03:01,350 --> 00:02:59,120

exam on his eyes with the station's

80

00:03:03,110 --> 00:03:01,360

fundoscope used to measure the retina

81

00:03:05,350 --> 00:03:03,120

health of these astronauts during their

82

00:03:07,430 --> 00:03:05,360

time on board the international space

83

00:03:09,589 --> 00:03:07,440

station

84

00:03:12,309 --> 00:03:09,599

meanwhile on the russian segment

85

00:03:14,229 --> 00:03:12,319

expedition 37 commander fjordier cheekin

86

00:03:16,229 --> 00:03:14,239

continuing a series of maintenance tasks

87

00:03:17,910 --> 00:03:16,239

which has been dominating his schedule

88

00:03:20,390 --> 00:03:17,920

throughout the week today he's

89

00:03:23,270 --> 00:03:20,400

collecting surface samples looking for

90

00:03:26,710 --> 00:03:23,280

any microbes or various

91

00:03:28,710 --> 00:03:26,720

other small trace elements along

92

00:03:30,869 --> 00:03:28,720

surface elements inside of both the

93

00:03:32,869 --> 00:03:30,879

zarya module and the russian zvezda

94

00:03:34,949 --> 00:03:32,879

service module they'll be taking these

95

00:03:37,990 --> 00:03:34,959

samples from all the different equipment

96

00:03:39,910 --> 00:03:38,000

and structures inside of each segment

97

00:03:42,470 --> 00:03:39,920

meanwhile oleg kotov and sergey

98

00:03:44,470 --> 00:03:42,480

ryazanskiy also focusing pretty heavily

99

00:03:46,390 --> 00:03:44,480

on some eva work as they get ready for

100

00:03:48,630 --> 00:03:46,400

russian spacewalk 36

101
00:03:50,949 --> 00:03:48,640
coming up on november 9th the two will

102
00:03:53,350 --> 00:03:50,959
be activating and inspecting their orlan

103
00:03:55,830 --> 00:03:53,360
spacesuits which the russians use during

104
00:03:57,509 --> 00:03:55,840
their spacewalks they'll also be

105
00:03:59,670 --> 00:03:57,519
recharging the water systems and the

106
00:04:01,270 --> 00:03:59,680
batteries inside and doing some

107
00:04:03,429 --> 00:04:01,280
checkouts of the pure stocking

108
00:04:05,350 --> 00:04:03,439
compartment well they will be staging

109
00:04:07,750 --> 00:04:05,360
the spacewalk from

110
00:04:08,869 --> 00:04:07,760
doing some leak checks on its systems

111
00:04:10,470 --> 00:04:08,879
and also

112
00:04:12,789 --> 00:04:10,480
doing some checkouts on the suit

113
00:04:14,869 --> 00:04:12,799

interface equipment inside

114

00:04:16,390 --> 00:04:14,879

aside from all that eva work uh sergey

115

00:04:18,229 --> 00:04:16,400

ryazanskiy also

116

00:04:20,390 --> 00:04:18,239

waking up early this morning to do some

117

00:04:22,629 --> 00:04:20,400

more saliva and blood collection for the

118

00:04:25,110 --> 00:04:22,639

ongoing biological experiments taking

119

00:04:27,110 --> 00:04:25,120

place on board but again uh the vast

120

00:04:28,550 --> 00:04:27,120

majority of astronauts on board today

121

00:04:30,710 --> 00:04:28,560

focusing

122

00:04:32,790 --> 00:04:30,720

all of their efforts on work for

123

00:04:35,350 --> 00:04:32,800

upcoming spacewalks and also repair work

124

00:04:37,670 --> 00:04:35,360

for past spacewalks and to prepare the