
CATO

1
00:00:08,150 --> 00:00:06,389
this is mission control houston we want

2
00:00:11,110 --> 00:00:08,160
to welcome you to space station live

3
00:00:12,549 --> 00:00:11,120
it's thursday october 31st 2013 this is

4
00:00:14,470 --> 00:00:12,559
a live view inside the space station

5
00:00:16,230 --> 00:00:14,480
flight control room here at the johnson

6
00:00:18,230 --> 00:00:16,240
space center in houston texas this team

7
00:00:19,830 --> 00:00:18,240
here today is being led by flight

8
00:00:21,590 --> 00:00:19,840
director emily nelson she's sitting

9
00:00:23,189 --> 00:00:21,600
there in the middle console sitting

10
00:00:25,189 --> 00:00:23,199
beside her in the white shirt david st

11
00:00:27,830 --> 00:00:25,199
jock from the canadian space agency he

12
00:00:30,150 --> 00:00:27,840
is today's capcom talking with the crew

13
00:00:31,349 --> 00:00:30,160

up on board the space station expedition

14
00:00:33,430 --> 00:00:31,359
37

15
00:00:35,510 --> 00:00:33,440
is busy and in progress currently

16
00:00:37,510 --> 00:00:35,520
onboard the orbiting complex the crew is

17
00:00:39,910 --> 00:00:37,520
working on a variety of different

18
00:00:41,590 --> 00:00:39,920
experiments and other activities getting

19
00:00:42,869 --> 00:00:41,600
ready for quite a number of busy weeks

20
00:00:44,790 --> 00:00:42,879
upcoming

21
00:00:46,229 --> 00:00:44,800
luca parmitano and fyodor yurchikhin

22
00:00:47,750 --> 00:00:46,239
spent their morning

23
00:00:49,510 --> 00:00:47,760
conducting some onboard training in

24
00:00:51,189 --> 00:00:49,520
advance of the soyuz relocation that

25
00:00:52,470 --> 00:00:51,199
will take place on friday morning

26
00:00:54,310 --> 00:00:52,480
they're going to be moving their soyuz

27
00:00:55,350 --> 00:00:54,320
that brought them and karen nyberg up to

28
00:00:56,869 --> 00:00:55,360
the station

29
00:00:59,110 --> 00:00:56,879
back in may

30
00:01:01,349 --> 00:00:59,120
from the rossvec module that's on the

31
00:01:02,790 --> 00:01:01,359
russian segment over to the zvezda

32
00:01:04,630 --> 00:01:02,800
service module that's at the back end of

33
00:01:06,469 --> 00:01:04,640
the russian segment

34
00:01:08,789 --> 00:01:06,479
you're going to be undocking at 3 34 a.m

35
00:01:10,550 --> 00:01:08,799
central time and redocking at 3 58.

36
00:01:12,469 --> 00:01:10,560
we'll have live coverage beginning at 3

37
00:01:13,750 --> 00:01:12,479
a.m central time

38
00:01:15,190 --> 00:01:13,760

that morning but this is going to be

39
00:01:17,749 --> 00:01:15,200
making way for the arrival of rick

40
00:01:21,830 --> 00:01:17,759
mastracchio mikhail tirin and koichu

41
00:01:23,030 --> 00:01:21,840
akata coming up later on in november

42
00:01:25,429 --> 00:01:23,040
so again we'll have live coverage

43
00:01:26,710 --> 00:01:25,439
beginning at 3 a.m central time as they

44
00:01:28,789 --> 00:01:26,720
take a quick trip around the

45
00:01:31,510 --> 00:01:28,799
neighborhood and move the soyuz over

46
00:01:33,270 --> 00:01:31,520
from one port to another

47
00:01:35,030 --> 00:01:33,280
ole kotov and sergey ryazanskiy are

48
00:01:36,550 --> 00:01:35,040
preparing their russian orlan spacesuits

49
00:01:38,469 --> 00:01:36,560
today for the upcoming spacewalk that

50
00:01:39,590 --> 00:01:38,479
will take place on november 9th

51
00:01:41,749 --> 00:01:39,600
they're going to be doing a number of

52
00:01:43,270 --> 00:01:41,759
activities outside but the main thing is

53
00:01:44,950 --> 00:01:43,280
they're going to be taking the

54
00:01:47,190 --> 00:01:44,960
olympic torch and it's going to be part

55
00:01:49,350 --> 00:01:47,200
of the 2014 winter games

56
00:01:50,550 --> 00:01:49,360
outside for a quick stroll

57
00:01:51,990 --> 00:01:50,560
and that should be

58
00:01:53,910 --> 00:01:52,000
gathering quite a bit of attention here

59
00:01:55,350 --> 00:01:53,920
on earth as these two crew members do

60
00:01:56,469 --> 00:01:55,360
that

61
00:01:58,630 --> 00:01:56,479
today they're going to be installing the

62
00:02:01,109 --> 00:01:58,640
u.s spacesuit lights that we use on our

63
00:02:02,550 --> 00:02:01,119

nasa spacesuits and the cameras on their

64
00:02:03,749 --> 00:02:02,560
russian suit so we can get a good view

65
00:02:05,670 --> 00:02:03,759
of all their activities that they're

66
00:02:07,830 --> 00:02:05,680
going to do on the 9th their spacewalk

67
00:02:09,270 --> 00:02:07,840
will begin at about 8 30 a.m central

68
00:02:14,150 --> 00:02:09,280
time and of course it'll be seen live

69
00:02:17,510 --> 00:02:16,070
kotov ryzansky and mike hopkins also

70
00:02:18,949 --> 00:02:17,520
have some onboard training today with

71
00:02:21,190 --> 00:02:18,959
what's known as the crew healthcare

72
00:02:22,949 --> 00:02:21,200
system or checks for short they're going

73
00:02:25,110 --> 00:02:22,959
to be practicing their cpr skills and

74
00:02:26,309 --> 00:02:25,120
also use the aed that's just like you

75
00:02:28,070 --> 00:02:26,319
would find here on the ground it's a

76
00:02:29,670 --> 00:02:28,080
defibrillator that they use

77
00:02:31,350 --> 00:02:29,680
on board they do this just to keep their

78
00:02:33,750 --> 00:02:31,360
skills sharp

79
00:02:34,550 --> 00:02:33,760
as they have sort of a mini hospital on

80
00:02:37,509 --> 00:02:34,560
board that they're going to be

81
00:02:38,869 --> 00:02:37,519
practicing with later on today

82
00:02:40,390 --> 00:02:38,879
hopkins is also going to be working on

83
00:02:42,869 --> 00:02:40,400
something today called the reversible

84
00:02:43,910 --> 00:02:42,879
figures experiment research has shown

85
00:02:45,750 --> 00:02:43,920
that the way that the crew members

86
00:02:47,910 --> 00:02:45,760
perceive three-dimensional objects

87
00:02:50,229 --> 00:02:47,920
changes a bit when they're up in space

88
00:02:51,670 --> 00:02:50,239

they have sort of different visual cues

89
00:02:53,509 --> 00:02:51,680
and their brains and their eyes sort of

90
00:02:55,750 --> 00:02:53,519
act a little bit differently so this

91
00:02:57,509 --> 00:02:55,760
research helps determine how the crews

92
00:02:59,750 --> 00:02:57,519
use what they call linear cues and

93
00:03:02,149 --> 00:02:59,760
different perspectives before during and

94
00:03:03,990 --> 00:03:02,159
after flight what they basically do is

95
00:03:05,830 --> 00:03:04,000
take a look at some reversible figures

96
00:03:06,949 --> 00:03:05,840
or sort of an optical illusion if you've

97
00:03:09,270 --> 00:03:06,959
ever seen something like that here on

98
00:03:11,110 --> 00:03:09,280
the ground and they have sort of a

99
00:03:12,710 --> 00:03:11,120
trigger in their hand that they indicate

100
00:03:14,470 --> 00:03:12,720
whether they're seeing a or b there's

101
00:03:16,309 --> 00:03:14,480
sort of multiple choices that they can

102
00:03:17,670 --> 00:03:16,319
pick

103
00:03:19,190 --> 00:03:17,680
well he's doing that karen nyberg is

104
00:03:21,110 --> 00:03:19,200
taking some surface samples around the

105
00:03:22,630 --> 00:03:21,120
station today and she parmitano and your

106
00:03:25,190 --> 00:03:22,640
chicken are also continuing their

107
00:03:28,149 --> 00:03:25,200
departure preparations as they get ready

108
00:03:29,910 --> 00:03:28,159
to come home in just a few days

109
00:03:31,430 --> 00:03:29,920
this crew is about to wrap up almost six

110
00:03:32,630 --> 00:03:31,440
months up in space

111
00:03:35,350 --> 00:03:32,640
they're going to be landing in just a

112
00:03:37,190 --> 00:03:35,360
few short weeks

113
00:03:38,550 --> 00:03:37,200

before that takes place we want to take

114
00:03:40,229 --> 00:03:38,560
a look at all the different programming

115
00:03:42,710 --> 00:03:40,239
activities we've got here on nasa tv

116
00:03:45,430 --> 00:03:42,720
beginning with the launch of mastracchio

117
00:03:46,390 --> 00:03:45,440
wakata and turin coming up

118
00:03:48,869 --> 00:03:46,400
on november

119
00:03:50,789 --> 00:03:48,879
the 6th

120
00:03:53,270 --> 00:03:50,799
our launch coverage will begin at 9 15

121
00:03:55,429 --> 00:03:53,280
pm central time the actual launch will

122
00:03:57,110 --> 00:03:55,439
take place at 10 14

123
00:03:58,789 --> 00:03:57,120
and then early on the morning of

124
00:04:01,589 --> 00:03:58,799
thursday november 7th we'll have docking

125
00:04:03,030 --> 00:04:01,599
coverage at 3 45 a.m central time as the

126
00:04:04,789 --> 00:04:03,040
crew gets up to the space station in

127
00:04:06,789 --> 00:04:04,799
about six hours about four orbits of the

128
00:04:09,830 --> 00:04:06,799
earth the docking will take place at 4

129
00:04:11,990 --> 00:04:09,840
31 a.m central time we'll be back later

130
00:04:14,070 --> 00:04:12,000
on that morning at 6 15 a.m central time

131
00:04:16,229 --> 00:04:14,080
with hatch opening coverage the hatches

132
00:04:17,909 --> 00:04:16,239
will be opened at 6 40. the crews will

133
00:04:19,590 --> 00:04:17,919
greet one another and for the first time

134
00:04:21,349 --> 00:04:19,600
in a number of years we'll have nine

135
00:04:23,590 --> 00:04:21,359
crew members on board the station at

136
00:04:25,270 --> 00:04:23,600
that point in time then at 8 a.m central

137
00:04:27,350 --> 00:04:25,280
time that is when we'll have a video

138
00:04:29,110 --> 00:04:27,360

file with video highlights all the

139
00:04:31,270 --> 00:04:29,120
evening's activities in case you missed

140
00:04:33,270 --> 00:04:31,280
any of that

141
00:04:34,790 --> 00:04:33,280
and then for the landing of fyodor

142
00:04:36,550 --> 00:04:34,800
yurchikhin luca parmitano and karen

143
00:04:38,790 --> 00:04:36,560
nyberg we also have a full slate of

144
00:04:40,150 --> 00:04:38,800
coverage beginning at 1 30 pm central

145
00:04:41,189 --> 00:04:40,160
time on november

146
00:04:42,790 --> 00:04:41,199
10th

147
00:04:44,950 --> 00:04:42,800
the actual hatch closure will take place

148
00:04:47,030 --> 00:04:44,960
at 2pm central time as the crews say

149
00:04:49,430 --> 00:04:47,040
farewell to one another undocking

150
00:04:51,189 --> 00:04:49,440
coverage will begin at 5pm central time

151
00:04:52,710 --> 00:04:51,199
with the actual undocking taking place

152
00:04:54,629 --> 00:04:52,720
at 5 26

153
00:04:57,030 --> 00:04:54,639
our landing coverage will begin at 7 30

154
00:04:59,270 --> 00:04:57,040
p.m central time

155
00:05:01,270 --> 00:04:59,280
the deorbit burn that will bring the

156
00:05:02,950 --> 00:05:01,280
crew back into the earth's atmosphere

157
00:05:06,629 --> 00:05:02,960
and set them up for landing will take

158
00:05:09,189 --> 00:05:06,639
place at 7 56 p.m central time and the

159
00:05:11,749 --> 00:05:09,199
actual landing will take place at 8 50

160
00:05:13,510 --> 00:05:11,759
p.m central time that will be 8 50 a.m

161
00:05:15,029 --> 00:05:13,520
the next morning monday morning there

162
00:05:16,469 --> 00:05:15,039
the landing site this crew is actually

163
00:05:18,469 --> 00:05:16,479

going to be landing

164
00:05:21,909 --> 00:05:18,479
in the southern zone near the cities of

165
00:05:23,350 --> 00:05:21,919
karaganda and jessica's gone

166
00:05:25,189 --> 00:05:23,360
of course there's two different uh