



1
00:00:16,550 --> 00:00:14,709
good day and welcome to mission control

2
00:00:18,630 --> 00:00:16,560
houston where the international space

3
00:00:20,470 --> 00:00:18,640
station flight control team is watching

4
00:00:21,429 --> 00:00:20,480
over the systems aboard the orbiting

5
00:00:23,990 --> 00:00:21,439
outpost

6
00:00:25,029 --> 00:00:24,000
as it tracks across the atlantic ocean

7
00:00:27,269 --> 00:00:25,039
from

8
00:00:29,990 --> 00:00:27,279
northwest to southeast

9
00:00:32,470 --> 00:00:30,000
at an altitude about 250 statute miles

10
00:00:34,790 --> 00:00:32,480
on board the expedition 36 crew

11
00:00:36,950 --> 00:00:34,800
commander pavel vinogradov and

12
00:00:39,270 --> 00:00:36,960
flight engineers alexander misurkin

13
00:00:42,709 --> 00:00:39,280

chris cassidy fyodor yoshikin luca

14

00:00:45,030 --> 00:00:42,719

parmitano and karen nyberg are all

15

00:00:46,549 --> 00:00:45,040

busy with another day of on-orbit

16

00:00:49,110 --> 00:00:46,559

operations

17

00:00:51,190 --> 00:00:49,120

following yesterday's shortened one-hour

18

00:00:52,389 --> 00:00:51,200

32-minute spacewalk

19

00:00:55,189 --> 00:00:52,399

the team

20

00:00:58,150 --> 00:00:55,199

in the u.s side of the space station in

21

00:01:00,470 --> 00:00:58,160

particular spacewalkers chris cassidy of

22

00:01:02,150 --> 00:01:00,480

nasa and luca pomotano of the european

23

00:01:04,390 --> 00:01:02,160

space agency

24

00:01:06,950 --> 00:01:04,400

have been conducting exhaustive

25

00:01:08,710 --> 00:01:06,960

troubleshooting activities taking a look

26
00:01:11,270 --> 00:01:08,720
at the spacesuit that was worn by luca

27
00:01:13,190 --> 00:01:11,280
parmitano on that one hour and 32

28
00:01:15,270 --> 00:01:13,200
minutes spacewalk

29
00:01:17,270 --> 00:01:15,280
shortly after he

30
00:01:18,950 --> 00:01:17,280
completed his first task of the

31
00:01:20,710 --> 00:01:18,960
spacewalk which is scheduled to be six

32
00:01:23,030 --> 00:01:20,720
and a half hours long

33
00:01:25,510 --> 00:01:23,040
he reported some water

34
00:01:27,990 --> 00:01:25,520
inside his helmet

35
00:01:30,469 --> 00:01:28,000
i didn't think it was immediately going

36
00:01:32,469 --> 00:01:30,479
to be an issue but after his fellow

37
00:01:34,230 --> 00:01:32,479
spacewalker chris cassidy was able to

38
00:01:35,590 --> 00:01:34,240

get a look inside

39

00:01:37,590 --> 00:01:35,600

his

40

00:01:40,550 --> 00:01:37,600

face plate he saw that there was more

41

00:01:42,630 --> 00:01:40,560

water than they believed there was and

42

00:01:46,149 --> 00:01:42,640

worked with the flight control team

43

00:01:48,230 --> 00:01:46,159

flight director dave korth and

44

00:01:50,230 --> 00:01:48,240

karina eversley the lead

45

00:01:52,389 --> 00:01:50,240

spacewalk officer and made a quick

46

00:01:54,389 --> 00:01:52,399

determination that it was a potential

47

00:01:56,469 --> 00:01:54,399

hazard and that they needed to terminate

48

00:01:58,230 --> 00:01:56,479

the spacewalk ended early and bring the

49

00:01:59,990 --> 00:01:58,240

crew back inside to make sure that they

50

00:02:01,030 --> 00:02:00,000

were safe

51
00:02:02,789 --> 00:02:01,040
all that

52
00:02:05,350 --> 00:02:02,799
went very well the

53
00:02:07,429 --> 00:02:05,360
team here has trained for a

54
00:02:09,029 --> 00:02:07,439
contingency reentry into the quest

55
00:02:11,190 --> 00:02:09,039
airlock module which you're looking at

56
00:02:12,630 --> 00:02:11,200
here in some video from yesterday's

57
00:02:14,790 --> 00:02:12,640
spacewalk

58
00:02:16,790 --> 00:02:14,800
and they were able to successfully get

59
00:02:18,869 --> 00:02:16,800
parmitano and cassidy quickly back into

60
00:02:20,949 --> 00:02:18,879
the airlock and then back into the

61
00:02:23,190 --> 00:02:20,959
international space station

62
00:02:26,229 --> 00:02:23,200
where they were able to get promitano

63
00:02:29,030 --> 00:02:26,239

and cassidy out of their suits and

64

00:02:31,510 --> 00:02:29,040

make sure that everybody was okay

65

00:02:33,350 --> 00:02:31,520

today the work has been focusing on

66

00:02:35,270 --> 00:02:33,360

trying to troubleshoot

67

00:02:36,550 --> 00:02:35,280

what might have gone wrong there still

68

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

is no

69

00:02:41,190 --> 00:02:38,879

smoking gun or definite cause of what

70

00:02:43,910 --> 00:02:41,200

happened or why that water

71

00:02:45,509 --> 00:02:43,920

ended up inside parmitano's spacesuit

72

00:02:48,309 --> 00:02:45,519

there are a couple of different

73

00:02:49,110 --> 00:02:48,319

potential sources for that water

74

00:02:54,869 --> 00:02:49,120

the

75

00:02:57,509 --> 00:02:54,879

hydrated with

76

00:03:00,710 --> 00:02:57,519

uh there also is water that courses

77

00:03:02,550 --> 00:03:00,720

through a set of tubing in their

78

00:03:05,990 --> 00:03:02,560

essentially long underwear that's used

79

00:03:07,830 --> 00:03:06,000

to cool them when they are outside the

80

00:03:09,750 --> 00:03:07,840

space station

81

00:03:11,270 --> 00:03:09,760

and that water flows through a different

82

00:03:13,670 --> 00:03:11,280

sets of plumbing

83

00:03:16,229 --> 00:03:13,680

both inside the the suit around the

84

00:03:18,309 --> 00:03:16,239

astronauts and in the backpack

85

00:03:20,470 --> 00:03:18,319

the team here on the ground today has

86

00:03:21,910 --> 00:03:20,480

been doing a variety of different

87

00:03:23,589 --> 00:03:21,920

troubleshooting activities some of these

88

00:03:25,670 --> 00:03:23,599

we're seeing from recorded video

89

00:03:27,430 --> 00:03:25,680

downlinked here in the

90

00:03:29,670 --> 00:03:27,440

equipment lock portion of the quest

91

00:03:32,229 --> 00:03:29,680

airlock module

92

00:03:35,030 --> 00:03:32,239

activating the equipment lock beginning

93

00:03:37,190 --> 00:03:35,040

to recharge the suit with water

94

00:03:39,350 --> 00:03:37,200

inspecting every nook and cranny for any

95

00:03:41,509 --> 00:03:39,360

signs of water leakage

96

00:03:43,830 --> 00:03:41,519

so far there hasn't been any immediate

97

00:03:46,550 --> 00:03:43,840

noticeable leakage other some droplets

98

00:03:49,030 --> 00:03:46,560

in the neighborhood of of one of the

99

00:03:50,869 --> 00:03:49,040

inlet loops from the canisters you used

100

00:03:52,630 --> 00:03:50,879

to scrub that because carbon dioxide

101
00:03:54,229 --> 00:03:52,640
from the spacesuits

102
00:03:55,750 --> 00:03:54,239
but the spacewalk specialists here in

103
00:03:58,470 --> 00:03:55,760
mission control

104
00:04:01,350 --> 00:03:58,480
have seen a higher than usual usage of

105
00:04:03,750 --> 00:04:01,360
water from the feed tank that runs

106
00:04:05,030 --> 00:04:03,760
throughout the system and the suits

107
00:04:06,949 --> 00:04:05,040
plumbing

108
00:04:08,630 --> 00:04:06,959
and that could have been consistent with

109
00:04:11,030 --> 00:04:08,640
the readings that were seen yesterday

110
00:04:12,390 --> 00:04:11,040
when promatano's helmet began to fill up

111
00:04:15,670 --> 00:04:12,400
with water

112
00:04:18,150 --> 00:04:15,680
again no real theory yet on exactly

113
00:04:19,909 --> 00:04:18,160

where this water came from or why but

114

00:04:23,030 --> 00:04:19,919

they're doing a

115

00:04:25,590 --> 00:04:23,040

very uh deliberate step-by-step process

116

00:04:29,350 --> 00:04:25,600

of troubleshooting to try and identify

117

00:04:32,469 --> 00:04:29,360

uh what's going on uh the spacesuits are

118

00:04:34,870 --> 00:04:32,479

in a way a combination of of parts uh

119

00:04:36,710 --> 00:04:34,880

and uh there is uh there's an additional

120

00:04:39,350 --> 00:04:36,720

spacesuit onboard the space station

121

00:04:41,909 --> 00:04:39,360

should there be any uh contingency

122

00:04:44,230 --> 00:04:41,919

outside that would be

123

00:04:45,670 --> 00:04:44,240

necessary to have a spacewalk something

124

00:04:47,189 --> 00:04:45,680

that would be very important to the

125

00:04:49,670 --> 00:04:47,199

space station

126

00:04:52,310 --> 00:04:49,680

they could resize spacesuits and have

127

00:04:54,390 --> 00:04:52,320

these guys ready to go out uh assuming

128

00:04:55,990 --> 00:04:54,400

that they're able to identify that this

129

00:04:57,350 --> 00:04:56,000

is not a uh

130

00:04:59,590 --> 00:04:57,360

any kind of an issue that will affect

131

00:05:01,350 --> 00:04:59,600

all space suits uh and that they're able

132

00:05:04,629 --> 00:05:01,360

to isolate it to this particular suit

133

00:05:06,310 --> 00:05:04,639

that parmitano was wearing uh

134

00:05:07,909 --> 00:05:06,320

chris cassidy didn't have any problems

135

00:05:10,870 --> 00:05:07,919

with his suit yesterday so there's no

136

00:05:12,870 --> 00:05:10,880

evidence that there is a generic problem

137

00:05:14,469 --> 00:05:12,880

with the spacesuits and so

138

00:05:16,150 --> 00:05:14,479

the team now is focusing on trying to

139

00:05:19,110 --> 00:05:16,160

figure out exactly what

140

00:05:22,629 --> 00:05:19,120

happened yesterday so that they can

141

00:05:25,270 --> 00:05:22,639

identify and design a repair procedure

142

00:05:27,749 --> 00:05:25,280

or shift over to alternate spacesuits

143

00:05:29,749 --> 00:05:27,759

and no plan as of yet and as to when

144

00:05:31,430 --> 00:05:29,759

they might try to do any of those tasks

145

00:05:33,110 --> 00:05:31,440

that were unable to be accomplished on

146

00:05:35,189 --> 00:05:33,120

yesterday's spacewalk

147

00:05:36,710 --> 00:05:35,199

none of those tasks was particularly

148

00:05:38,150 --> 00:05:36,720

time critical

149

00:05:41,189 --> 00:05:38,160

and so the team here is going to take a

150

00:05:43,110 --> 00:05:41,199

very deliberate and uh careful uh look

151
00:05:45,110 --> 00:05:43,120
at everything

152
00:05:47,189 --> 00:05:45,120
of course uh research continuing aboard

153
00:05:49,029 --> 00:05:47,199
the international space station today uh

154
00:05:52,150 --> 00:05:49,039
russians working with a variety of

155
00:05:54,230 --> 00:05:52,160
different experiments uh karen nyberg

156
00:05:56,550 --> 00:05:54,240
also doing some proficiency training for

157
00:05:57,510 --> 00:05:56,560
her role as the crew medical officer on

158
00:05:59,270 --> 00:05:57,520
board

159
00:06:01,270 --> 00:05:59,280
she's also scheduled to be replacing a

160
00:06:02,950 --> 00:06:01,280
recycling system tank in the

161
00:06:05,430 --> 00:06:02,960
environmental control life support

162
00:06:08,950 --> 00:06:05,440
system and working with the advanced

163
00:06:11,830 --> 00:06:08,960

biological research system

164

00:06:14,070 --> 00:06:11,840

the space walkers also are uh stowing

165

00:06:16,390 --> 00:06:14,080

the tools that they had pulled out for

166

00:06:17,670 --> 00:06:16,400

yesterday's eva so that they are out of

167

00:06:18,790 --> 00:06:17,680

the way

168

00:06:20,550 --> 00:06:18,800

and not

169

00:06:25,430 --> 00:06:20,560

any impediment to the troubleshooting

170

00:06:30,309 --> 00:06:27,590

a lot of research has been going on

171

00:06:33,270 --> 00:06:30,319

throughout the week of this

172

00:06:36,390 --> 00:06:33,280

expedition 36 activity

173

00:06:38,870 --> 00:06:36,400

in addition to that they've been

174

00:06:41,590 --> 00:06:38,880

performing a large number almost a full

175

00:06:43,830 --> 00:06:41,600

uh work week's worth of

176
00:06:45,270 --> 00:06:43,840
research going on

177
00:06:46,550 --> 00:06:45,280
last week

178
00:06:49,590 --> 00:06:46,560
about

179
00:06:51,590 --> 00:06:49,600
17 hours worth of crew time was uh

180
00:06:53,670 --> 00:06:51,600
scheduled for research even though the

181
00:06:56,790 --> 00:06:53,680
uh we had the spacewalk and all those

182
00:06:59,990 --> 00:06:56,800
preparations going on and also uh the

183
00:07:03,110 --> 00:07:00,000
crew uh on the russian uh portion of the

184
00:07:05,110 --> 00:07:03,120
station has been busy uh packing up

185
00:07:07,589 --> 00:07:05,120
trash and no longer needed items inside

186
00:07:09,270 --> 00:07:07,599
the progress 50 spacecraft which is

187
00:07:13,189 --> 00:07:09,280
scheduled to undock from the

188
00:07:14,950 --> 00:07:13,199

international space station on july 25

189

00:07:18,469 --> 00:07:14,960

the coverage of that on nasa tv will

190

00:07:22,070 --> 00:07:18,479

begin at 3 30 pm central time and the

191

00:07:25,350 --> 00:07:22,080

undocking is scheduled for 3 43 p.m

192

00:07:28,550 --> 00:07:25,360

progress 50 is on the piers docking

193

00:07:30,390 --> 00:07:28,560

module for the space station and

194

00:07:33,270 --> 00:07:30,400

when it departs it will make room for

195

00:07:34,790 --> 00:07:33,280

the next cargo vehicle progress 52 which

196

00:07:37,830 --> 00:07:34,800

is scheduled to launch from the baikonur

197

00:07:42,790 --> 00:07:37,840

cosmonaut in kazakhstan uh on saturday

198

00:07:44,390 --> 00:07:42,800

july the 27th uh launch is scheduled

199

00:07:46,790 --> 00:07:44,400

for 3 45

200

00:07:49,189 --> 00:07:46,800

p.m central time and it'll be going

201
00:07:51,110 --> 00:07:49,199
through an expedited four orbits six

202
00:07:52,950 --> 00:07:51,120
hour

203
00:07:55,589 --> 00:07:52,960
travel to the international space

204
00:07:56,869 --> 00:07:55,599
station and uh docking of the new

205
00:07:58,469 --> 00:07:56,879
progress ship

206
00:08:01,670 --> 00:07:58,479
to that piers docking compartment is

207
00:08:04,869 --> 00:08:01,680
scheduled for 8 45 pm central time on

208
00:08:07,029 --> 00:08:04,879
july 27th

209
00:08:09,830 --> 00:08:07,039
correction we'll have our coverage start

210
00:08:12,950 --> 00:08:09,840
at 8 45 pm and then docking will be

211
00:08:14,230 --> 00:08:12,960
occurring at 9 26 pm central time and

212
00:08:16,629 --> 00:08:14,240
all that will be covered on nasa