1
00:00:42,399 --> 00:00:58,150
don't let it go

2
00:01:27,270 --> 00:01:13,990
is

3
00:01:31,109 --> 00:01:28,710
good morning gentlemen welcome to up to

4
00:01:33,030 --> 00:01:31,119
the minute

5
00:01:34,390 --> 00:01:33,040
good morning

6
00:01:35,670 --> 00:01:34,400
thanks for talking with us this morning

7
00:01:37,190 --> 00:01:35,680
commander if i can address the first

8
00:01:38,870 --> 00:01:37,200
question to you we talk about the loss

9
00:01:41,109 --> 00:01:38,880
of the spartan nasa managers have now

10
00:01:42,149 --> 00:01:41,119
concluded there is no second chance for

11
00:01:43,749 --> 00:01:42,159
deployment are you a little bit

12
00:01:47,510 --> 00:01:43,759
disappointed this didn't turn out the

13
00:01:51,670 --> 00:01:49,670

well oh sure we're always a little bit

14
00:01:53,270 --> 00:01:51,680
disappointed if we don't get the full

15
00:01:56,469 --> 00:01:53,280
mission accomplishment

16
00:01:58,310 --> 00:01:56,479
but we did retrieve the satellite after

17
00:02:00,789 --> 00:01:58,320
the little glitch we had on flight day

18
00:02:02,389 --> 00:02:00,799
two and so the important thing is we're

19
00:02:04,789 --> 00:02:02,399
bringing spartan back down to earth and

20
00:02:06,310 --> 00:02:04,799
i'll get to fly another day

21
00:02:07,749 --> 00:02:06,320
specialist scott the spartan satellite

22
00:02:09,510 --> 00:02:07,759
was important for a lot of different

23
00:02:11,430 --> 00:02:09,520
reasons including observations to help

24
00:02:13,350 --> 00:02:11,440
improve the accuracy of another

25
00:02:18,070 --> 00:02:13,360
satellite how big a setback do you think

26
00:02:20,949 --> 00:02:19,510
well i'm sure it's somewhat of a

27
00:02:22,790 --> 00:02:20,959
satellite but

28
00:02:23,830 --> 00:02:22,800
not to be flip or facetious we think

29
00:02:26,070 --> 00:02:23,840
it's more important to get the

30
00:02:27,910 --> 00:02:26,080
spacecraft back get it back safely

31
00:02:29,910 --> 00:02:27,920
refurbishing flag again i mean after all

32
00:02:31,670 --> 00:02:29,920
the sun will be there and we don't want

33
00:02:33,190 --> 00:02:31,680
to risk losing the satellite all

34
00:02:34,710 --> 00:02:33,200
together

35
00:02:35,990 --> 00:02:34,720
it's interesting commander this is the

36
00:02:37,750 --> 00:02:36,000
first time we've had a chance really to

37
00:02:40,070 --> 00:02:37,760
talk with you about what has happened

38
00:02:42,550 --> 00:02:40,080

with it nasa has said they aren't quite

39
00:02:44,869 --> 00:02:42,560
sure why we did lose the satellite that

40
00:02:45,990 --> 00:02:44,879
a signal was not received have you up

41
00:02:47,990 --> 00:02:46,000
there been able to talk amongst

42
00:02:51,270 --> 00:02:48,000
yourselves find out what didn't go right

43
00:02:54,630 --> 00:02:52,630
we're really not sure and we'll wait

44
00:02:55,509 --> 00:02:54,640
till we have all the facts on on the

45
00:02:58,149 --> 00:02:55,519
ground

46
00:03:00,869 --> 00:02:58,159
it didn't do its normal programming and

47
00:03:03,910 --> 00:03:00,879
then we gave a little slight uh

48
00:03:06,229 --> 00:03:03,920
bump when we were retrieving it and that

49
00:03:07,910 --> 00:03:06,239
put it into a spin

50
00:03:09,430 --> 00:03:07,920
but we'll wait till we get all the facts

51
00:03:11,110 --> 00:03:09,440
and talk to all the folks on the ground

52
00:03:13,110 --> 00:03:11,120
and put the story together

53
00:03:14,070 --> 00:03:13,120
i imagine astronaut chevrolet is a

54
00:03:15,589 --> 00:03:14,080
little bit

55
00:03:19,750 --> 00:03:15,599
disappointed as well but it didn't go

56
00:03:23,990 --> 00:03:22,070
casey is a trooper she's a very good

57
00:03:27,990 --> 00:03:24,000
operator very good mission specialist

58
00:03:31,750 --> 00:03:30,229
do you know if the command was sent or

59
00:03:33,589 --> 00:03:31,760
nasa was telling us from houston that

60
00:03:37,509 --> 00:03:33,599
possibly the computer did not send that

61
00:03:41,509 --> 00:03:39,190
we don't know somehow the command didn't

62
00:03:43,190 --> 00:03:41,519
get sent how that

63
00:03:44,309 --> 00:03:43,200

occurred we're really not sure at this

64
00:03:46,550 --> 00:03:44,319
time

65
00:03:49,190 --> 00:03:46,560
okay for astronaut scott you and your

66
00:03:50,789 --> 00:03:49,200
japanese compatriot taco doi spent eight

67
00:03:52,229 --> 00:03:50,799
hours walking in space actually last

68
00:03:53,990 --> 00:03:52,239
week to retrieve spartan to carry out

69
00:03:55,750 --> 00:03:54,000
some of the other tests we did cancel a

70
00:03:57,589 --> 00:03:55,760
few tests though would you like to go

71
00:03:58,949 --> 00:03:57,599
back out again nasa i know has not yet

72
00:04:01,910 --> 00:03:58,959
made that decision would you like to

73
00:04:02,949 --> 00:04:01,920
take another crack at it

74
00:04:04,309 --> 00:04:02,959
well i'll tell you what i don't think

75
00:04:05,750 --> 00:04:04,319
there's an asteroid in it well that

76
00:04:07,830 --> 00:04:05,760
would not jump at the chance to go

77
00:04:09,750 --> 00:04:07,840
outside and if they should decide to do

78
00:04:12,710 --> 00:04:09,760
it the cow and i are ready to go

79
00:04:14,550 --> 00:04:12,720
we accomplished i think most of the edft

80
00:04:16,390 --> 00:04:14,560
or the eva objective there's a few

81
00:04:18,150 --> 00:04:16,400
things that we could do if we went back

82
00:04:20,069 --> 00:04:18,160
out and we keep our fingers crossed

83
00:04:22,230 --> 00:04:20,079
they'll give us another opportunity

84
00:04:23,670 --> 00:04:22,240
tell me about this small basketball

85
00:04:25,270 --> 00:04:23,680
sized camera that you would have taken

86
00:04:27,110 --> 00:04:25,280
out there and taken a look at give me

87
00:04:29,510 --> 00:04:27,120
give me a quick thumbnail about the

88
00:04:31,670 --> 00:04:29,520

camera itself

89
00:04:33,510 --> 00:04:31,680
sure it's called air cam sprint it's a

90
00:04:35,430 --> 00:04:33,520
little bigger than a basketball size of

91
00:04:38,230 --> 00:04:35,440
a medicine ball i guess it has two

92
00:04:40,469 --> 00:04:38,240
cameras inside it also has a controlling

93
00:04:42,870 --> 00:04:40,479
system it's blown much like you fly a

94
00:04:44,870 --> 00:04:42,880
radio controlled airplane i would have

95
00:04:46,870 --> 00:04:44,880
released the sprint from outside the

96
00:04:48,870 --> 00:04:46,880
shuttle and our pilot steve lindsey

97
00:04:50,710 --> 00:04:48,880
would have piloted it from here on the

98
00:04:52,550 --> 00:04:50,720
flight deck he had a test program

99
00:04:54,790 --> 00:04:52,560
written up a certain uh procedural a

100
00:04:58,310 --> 00:04:54,800
certain point he would have taken

101
00:05:00,390 --> 00:04:58,320
obviously this camera would uh beam back

102
00:05:02,150 --> 00:05:00,400
photos of pictures television pictures

103
00:05:04,550 --> 00:05:02,160
of the outside of the shuttle and of

104
00:05:06,629 --> 00:05:04,560
course it would be useful in inspecting

105
00:05:09,270 --> 00:05:06,639
the outside of a space shuttle or space

106
00:05:11,189 --> 00:05:09,280
station or whatever

107
00:05:13,350 --> 00:05:11,199
not to forget our guest leonardo cadeny

108
00:05:15,110 --> 00:05:13,360
from the russian space program excuse me

109
00:05:16,550 --> 00:05:15,120
sir i know it's your first shuttle

110
00:05:18,310 --> 00:05:16,560
flight you trained for so many years on

111
00:05:20,070 --> 00:05:18,320
the russian shuttle to go up there you

112
00:05:21,510 --> 00:05:20,080
were working with the growth of plants i

113
00:05:22,870 --> 00:05:21,520

know that later this afternoon you're

114
00:05:24,469 --> 00:05:22,880
going to be talking to school children

115
00:05:25,590 --> 00:05:24,479
here in the united states tell me a

116
00:05:27,270 --> 00:05:25,600
little bit about the project you're

117
00:05:35,029 --> 00:05:27,280
working on and what you hope to tell the

118
00:05:39,350 --> 00:05:35,830
during

119
00:05:40,950 --> 00:05:39,360
20 years i was a cosmonaut of former

120
00:05:42,310 --> 00:05:40,960
ussr

121
00:05:43,510 --> 00:05:42,320
as

122
00:05:45,909 --> 00:05:43,520
i had

123
00:05:48,070 --> 00:05:45,919
training as a

124
00:05:50,230 --> 00:05:48,080
commander of bran

125
00:05:51,110 --> 00:05:50,240
but right now i had

126
00:05:53,110 --> 00:05:51,120
i am

127
00:05:54,710 --> 00:05:53,120
a cosmonaut of ukraine

128
00:05:55,590 --> 00:05:54,720
and

129
00:06:28,390 --> 00:05:55,600
i

130
00:06:29,670 --> 00:06:28,400
go through the new role maneuver tell us

131
00:06:31,270 --> 00:06:29,680
how that worked i know it's been a

132
00:06:32,629 --> 00:06:31,280
couple of days since the first roll do

133
00:06:34,150 --> 00:06:32,639
you think it's going to become easy

134
00:06:37,990 --> 00:06:34,160
enough to do standard in the future for

135
00:06:41,510 --> 00:06:39,510
well the role the heads up that you're

136
00:06:43,430 --> 00:06:41,520
referring to happens about six minutes

137
00:06:45,350 --> 00:06:43,440
into the asset of course the ascent

138
00:06:47,590 --> 00:06:45,360

takes eight and a half minutes

139
00:06:49,749 --> 00:06:47,600
and it's meant so that we have earlier

140
00:06:52,390 --> 00:06:49,759
communications with the satellite and it

141
00:06:55,110 --> 00:06:52,400
will become the standard for all uh

142
00:06:58,150 --> 00:06:55,120
shuttle missions uh it really went very

143
00:06:59,430 --> 00:06:58,160
smoothly i couldn't really tell that the

144
00:07:01,670 --> 00:06:59,440
shuttle was moving it wasn't a violent

145
00:07:03,909 --> 00:07:01,680
maneuver it was very smooth one to two

146
00:07:06,070 --> 00:07:03,919
degrees per second just a little bit of

147
00:07:07,830 --> 00:07:06,080
slight transverse acceleration through

148
00:07:09,830 --> 00:07:07,840
the chest but

149
00:07:12,390 --> 00:07:09,840
the engineers did a lot of hard work a

150
00:07:14,150 --> 00:07:12,400
lot of study and it paid off

151
00:07:15,909 --> 00:07:14,160
from up there i know that you can't see

152
00:07:17,350 --> 00:07:15,919
actually el nino but we talk about it so

153
00:07:19,110 --> 00:07:17,360
much here on earth can you see the

154
00:07:20,550 --> 00:07:19,120
effects these huge fires in australia

155
00:07:24,950 --> 00:07:20,560
right now what does that look like as

156
00:07:30,230 --> 00:07:27,830
well they did brief us about the el nino

157
00:07:32,150 --> 00:07:30,240
effects nasa's take different pictures

158
00:07:34,790 --> 00:07:32,160
some places it's wetter some places it's

159
00:07:37,110 --> 00:07:34,800
drier indonesia is a little bit drier

160
00:07:38,870 --> 00:07:37,120
than usual

161
00:07:41,189 --> 00:07:38,880
it passes over australia we haven't

162
00:07:43,110 --> 00:07:41,199
noticed a whole lot of fires yet just

163
00:07:45,430 --> 00:07:43,120

due to our ground track

164
00:07:47,110 --> 00:07:45,440
but the earth observation folks on the

165
00:07:48,230 --> 00:07:47,120
ground keep us informed and we try to

166
00:07:51,110 --> 00:07:48,240
take as many

167
00:07:52,790 --> 00:07:51,120
pictures of the events as possible

168
00:07:54,070 --> 00:07:52,800
and microgravity i know that's another

169
00:07:55,670 --> 00:07:54,080
ongoing

170
00:08:00,790 --> 00:07:55,680
experiment in space what's been the

171
00:08:04,950 --> 00:08:02,309
actually the microgravity experiments

172
00:08:06,950 --> 00:08:04,960
are going on very well today we're we're

173
00:08:09,510 --> 00:08:06,960
processing the particle engulfing and

174
00:08:11,749 --> 00:08:09,520
pushing experiment and also we have some

175
00:08:13,350 --> 00:08:11,759
enclosed lamina flame experiments going

176
00:08:15,589 --> 00:08:13,360
on this afternoon we did wedding

177
00:08:17,270 --> 00:08:15,599
characteristics of emissibles on

178
00:08:19,350 --> 00:08:17,280
yesterday and the day before yesterday

179
00:08:21,670 --> 00:08:19,360
and the principal investigators on the

180
00:08:24,629 --> 00:08:21,680
ground are quite happy with what they're

181
00:08:26,390 --> 00:08:24,639
seeing and that i can tell you

182
00:08:28,070 --> 00:08:26,400
commander kevin cragel mission

183
00:08:29,749 --> 00:08:28,080
specialist winston scott payload

184
00:08:31,110 --> 00:08:29,759
specialist lina kadena we thank you very

185
00:08:34,230 --> 00:08:31,120
much for joining us this morning on up

186
00:08:34,240 --> 00:10:13,829
thank you it's been our pleasure

187
00:10:13,839 --> 00:10:29,430
uh

188
00:10:34,630 --> 00:10:31,190

how long will the experiment with the

189
00:10:34,640 --> 00:10:39,750
experiment this experiment

190
00:10:39,760 --> 00:10:56,389
starts before the flight

191
00:10:56,399 --> 00:11:12,630
is rather short

192
00:11:12,640 --> 00:11:26,389
uh

193
00:11:26,399 --> 00:11:41,190
in space

194
00:11:41,200 --> 00:11:51,750
are you conducting presently

195
00:11:54,310 --> 00:11:53,350
wrapper experiment

196
00:12:18,389 --> 00:11:54,320
here

197
00:12:38,710 --> 00:12:20,870
we are growing some plants on the

198
00:12:53,509 --> 00:12:40,790
what are the future applications of the

199
00:12:57,670 --> 00:12:55,750
from the technical point of view the

200
00:13:24,470 --> 00:12:57,680
experiment was prepared and the most

201
00:13:28,629 --> 00:13:26,470
is being monitored by the computers

202
00:13:35,829 --> 00:13:28,639
including temperature and all the

203
00:13:40,550 --> 00:13:38,310
there are special devices used in order

204
00:13:44,870 --> 00:13:40,560
to monitor the process of growing the

205
00:13:50,069 --> 00:13:47,990
there is also a freezer involved where