



1
00:00:23,349 --> 00:00:02,950
weather channel this is houston please

2
00:00:28,390 --> 00:00:24,470
discovery this is the weather channel

3
00:00:34,790 --> 00:00:29,990
we hear you loud and clear welcome

4
00:00:37,590 --> 00:00:36,310
all right great thanks guys for joining

5
00:00:39,670 --> 00:00:37,600
joining us today

6
00:00:42,310 --> 00:00:39,680
um i guess tomorrow's the first of uh

7
00:01:00,709 --> 00:00:42,320
two historic space uh walks um how do

8
00:01:03,910 --> 00:01:02,630
our preparation begins years in advance

9
00:01:06,550 --> 00:01:03,920
uh when we first show up here for our

10
00:01:07,670 --> 00:01:06,560
candidate training uh we spend time in

11
00:01:09,750 --> 00:01:07,680
what's called a neutral buoyancy

12
00:01:11,590 --> 00:01:09,760
laboratory it's a giant pool

13
00:01:15,190 --> 00:01:11,600

uh with a one-to-one mock-up of the

14

00:01:19,270 --> 00:01:17,510

we use uh the same suits that we use for

15

00:01:20,550 --> 00:01:19,280

our spacewalks in the pool

16

00:01:22,390 --> 00:01:20,560

and it gives us the advantage of being

17

00:01:24,230 --> 00:01:22,400

able to work and where we're floating as

18

00:01:25,830 --> 00:01:24,240

if we're in zero gravity

19

00:01:27,830 --> 00:01:25,840

once we get a mission assigned we

20

00:01:30,069 --> 00:01:27,840

actually go over the choreography

21

00:01:31,590 --> 00:01:30,079

of what the different tasks will be and

22

00:01:33,190 --> 00:01:31,600

we'll run through those five or six

23

00:01:35,510 --> 00:01:33,200

times for each of our spacewalks in the

24

00:01:38,390 --> 00:01:36,469

okay

25

00:01:47,109 --> 00:01:38,400

let's just kind of on a normal day what

26

00:01:51,830 --> 00:01:49,270

well a normal day on the space station

27

00:01:53,350 --> 00:01:51,840

and on shuttle are very so we have a big

28

00:01:55,670 --> 00:01:53,360

schedule a lot of us are going and doing

29

00:01:57,749 --> 00:01:55,680

different things but a typical day we're

30

00:01:59,270 --> 00:01:57,759

doing the maintenance we have

31

00:02:00,630 --> 00:01:59,280

a lot of cargo that we're transferring

32

00:02:02,789 --> 00:02:00,640

over to space station there's things

33

00:02:05,429 --> 00:02:02,799

that we want to bring down as well on

34

00:02:08,469 --> 00:02:05,439

our flight yesterday after we docked we

35

00:02:10,710 --> 00:02:08,479

had to transfer elc 4 which is

36

00:02:12,470 --> 00:02:10,720

basically a big pallet that's in the bay

37

00:02:14,309 --> 00:02:12,480

that's going to hold the equipment on

38

00:02:16,150 --> 00:02:14,319

the outside of the space station we're

39

00:02:19,430 --> 00:02:16,160

carrying on the

40

00:02:21,510 --> 00:02:19,440

in the payload bay of the shuttle a

41

00:02:23,430 --> 00:02:21,520

pmm which is a big container that we're

42

00:02:25,270 --> 00:02:23,440

gonna a module that we're gonna attach

43

00:02:26,949 --> 00:02:25,280

onto the space station so there's a lot

44

00:02:28,070 --> 00:02:26,959

of things that we do from the day to day

45

00:02:29,430 --> 00:02:28,080

so each

46

00:02:32,229 --> 00:02:29,440

each of our days is different but

47

00:02:42,470 --> 00:02:33,830

what do you hope to accomplish from this

48

00:02:47,589 --> 00:02:44,949

um well our our primary objectives of

49

00:02:49,350 --> 00:02:47,599

course is to get up and install the

50

00:02:50,470 --> 00:02:49,360

express logistics carrier which we did

51
00:02:52,309 --> 00:02:50,480
yesterday

52
00:02:54,150 --> 00:02:52,319
with spares for the external space

53
00:02:56,390 --> 00:02:54,160
station and deliver the permanent

54
00:02:58,630 --> 00:02:56,400
multi-purpose module that that eric just

55
00:03:00,949 --> 00:02:58,640
mentioned which is essentially a

56
00:03:02,949 --> 00:03:00,959
pressurized module that will be as badly

57
00:03:05,589 --> 00:03:02,959
needed stowage for the space station in

58
00:03:07,430 --> 00:03:05,599
addition we're doing some space walks

59
00:03:09,830 --> 00:03:07,440
to do some cleanup activities some more

60
00:03:11,270 --> 00:03:09,840
assembly work and a lot of robotics

61
00:03:13,350 --> 00:03:11,280
operations to support that so i would

62
00:03:15,350 --> 00:03:13,360
say those are our primary objectives is

63
00:03:16,630 --> 00:03:15,360

to uh is to outfit the station best we

64

00:03:18,949 --> 00:03:16,640

can here as we approach the end of the

65

00:03:20,229 --> 00:03:18,959

shuttle program get as much up mass as

66

00:03:23,430 --> 00:03:20,239

possible

67

00:03:26,390 --> 00:03:23,440

to them and situate the space station to

68

00:03:27,670 --> 00:03:26,400

to keep flying out to 2020.

69

00:03:30,229 --> 00:03:27,680

what are some of the items you've taken

70

00:03:43,910 --> 00:03:30,239

on board any special items kind of you

71

00:03:49,509 --> 00:03:46,949

well of course we have all the uh the uh

72

00:03:51,030 --> 00:03:49,519

manifested items which uh steve and eric

73

00:03:53,030 --> 00:03:51,040

mentioned the uh

74

00:03:55,030 --> 00:03:53,040

the things like the the big modules and

75

00:03:57,270 --> 00:03:55,040

that kind of thing but we also have uh

76

00:03:59,509 --> 00:03:57,280

food items that we bring we've got uh

77

00:04:01,509 --> 00:03:59,519

one special meal that we've prepared

78

00:04:04,229 --> 00:04:01,519

that uh hopefully we'll enjoy on flight

79

00:04:06,309 --> 00:04:04,239

day eight with uh the station crew um

80

00:04:07,509 --> 00:04:06,319

special foods from the ground and then

81

00:04:09,509 --> 00:04:07,519

and then each of us tries to bring

82

00:04:12,309 --> 00:04:09,519

something from home to um

83

00:04:14,789 --> 00:04:12,319

to have up here with us but um

84

00:04:18,069 --> 00:04:14,799

mostly uh without bringing anything this

85

00:04:19,990 --> 00:04:18,079

is just an amazing place to be and it's

86

00:04:21,909 --> 00:04:20,000

the stuff that's around you here that i

87

00:04:23,990 --> 00:04:21,919

think that we appreciate and enjoy the

88

00:04:26,950 --> 00:04:24,000

most

89

00:04:28,469 --> 00:04:26,960

okay last question um

90

00:04:36,230 --> 00:04:28,479

how does this feel overall to be on such

91

00:04:41,909 --> 00:04:37,830

well

92

00:04:45,590 --> 00:04:41,919

i i spent six and a half months here in

93

00:04:47,909 --> 00:04:45,600

2009 and i loved it up here i didn't

94

00:04:50,310 --> 00:04:47,919

want to leave so for me the mission has

95

00:04:52,150 --> 00:04:50,320

a lot of meaning it's a return and just

96

00:04:53,670 --> 00:04:52,160

getting back to this magnificent stack

97

00:04:55,270 --> 00:04:53,680

has been incredible it's a little bit

98

00:04:56,790 --> 00:04:55,280

bigger than i left it

99

00:04:58,950 --> 00:04:56,800

but as steve said that we're bringing

100

00:05:01,029 --> 00:04:58,960

the assembly of the station to a close

101
00:05:01,830 --> 00:05:01,039
we're delivering the last u.s module up

102
00:05:04,390 --> 00:05:01,840
here

103
00:05:06,870 --> 00:05:04,400
and then it's pretty much built more or

104
00:05:09,110 --> 00:05:06,880
less and this this mission kind of marks

105
00:05:11,189 --> 00:05:09,120
a turning point where from now on we're

106
00:05:13,029 --> 00:05:11,199
mostly using the station to get science

107
00:05:14,710 --> 00:05:13,039
to get a lot of engineering know-how to

108
00:05:17,189 --> 00:05:14,720
hopefully enable us to go further one

109
00:05:19,029 --> 00:05:17,199
day so there's a lot that we're learning

110
00:05:20,710 --> 00:05:19,039
up here and it's just a magnificent

111
00:05:23,510 --> 00:05:20,720
place so i think that's really the

112
00:05:25,029 --> 00:05:23,520
meaning of this mission to me

113
00:05:34,550 --> 00:05:25,039

all right thanks guys we're proud of you

114

00:05:38,870 --> 00:05:37,189

discovery iss this is houston acr that

115

00:05:40,790 --> 00:05:38,880

concludes the weather channel portion of

116

00:05:44,469 --> 00:05:40,800

the event please stand by for a voice

117

00:05:47,590 --> 00:05:44,479

check from wbz radio

118

00:05:51,749 --> 00:05:47,600

discovery iss this is wbz radio how do

119

00:05:55,909 --> 00:05:53,350

we hear you loud and clear welcome

120

00:05:58,309 --> 00:05:55,919

aboard the international space station

121

00:05:59,990 --> 00:05:58,319

glad to be here i'd like to begin with a

122

00:06:02,309 --> 00:06:00,000

question for shuttle commander stephen

123

00:06:04,150 --> 00:06:02,319

lindsay it's now day four of your

124

00:06:05,749 --> 00:06:04,160

scheduled 12-day shuttle mission you've

125

00:06:07,510 --> 00:06:05,759

brought with you this time not only a

126
00:06:09,749 --> 00:06:07,520
logistics module for doing more

127
00:06:12,790 --> 00:06:09,759
experiments on board the space station

128
00:06:18,309 --> 00:06:12,800
but also a human-like robot robonaut 2.

129
00:06:22,790 --> 00:06:21,029
robonaut 2 is a uh is essentially it's

130
00:06:24,469 --> 00:06:22,800
in cooperation with nasa and general

131
00:06:26,230 --> 00:06:24,479
motors but it's a uh

132
00:06:29,270 --> 00:06:26,240
it's a technology demonstrator it's a

133
00:06:31,670 --> 00:06:29,280
it's a human-like uh robot from at least

134
00:06:33,029 --> 00:06:31,680
from the waist up and the intent by

135
00:06:35,029 --> 00:06:33,039
bringing it up here is uh they're going

136
00:06:38,309 --> 00:06:35,039
to install it and they're going to start

137
00:06:40,710 --> 00:06:38,319
pre doing some basic tasks with it

138
00:06:43,029 --> 00:06:40,720

to see how it works in in space and also

139

00:06:45,909 --> 00:06:43,039

to look at it operationally decide you

140

00:06:48,710 --> 00:06:45,919

know how would you best use a an and or

141

00:06:50,950 --> 00:06:48,720

a human-like robot in space what sort of

142

00:06:52,870 --> 00:06:50,960

task to use it for so it's a technology

143

00:06:55,589 --> 00:06:52,880

demonstrator doing a little bit of

144

00:06:57,510 --> 00:06:55,599

science with it and uh and then a lot of

145

00:06:59,510 --> 00:06:57,520

operations with it to determine in the

146

00:07:02,790 --> 00:06:59,520

future is there a place for a human-like

147

00:07:04,710 --> 00:07:02,800

robot in space to help us and if so then

148

00:07:07,029 --> 00:07:04,720

how would we use that

149

00:07:08,870 --> 00:07:07,039

a follow-up for commander lindsay this

150

00:07:11,189 --> 00:07:08,880

is your fifth shuttle mission the third

151

00:07:12,710 --> 00:07:11,199

aboard discovery as you lift it off last

152

00:07:14,950 --> 00:07:12,720

thursday what were your thoughts his

153

00:07:20,230 --> 00:07:14,960

discovery began its final mission after

154

00:07:23,830 --> 00:07:22,550

well i i think all of the crew has had a

155

00:07:25,830 --> 00:07:23,840

lot of thoughts about this being the

156

00:07:27,670 --> 00:07:25,840

last flight of the discovery as well as

157

00:07:29,110 --> 00:07:27,680

the tremendous folks on the ground that

158

00:07:31,350 --> 00:07:29,120

have been helped out thousands and

159

00:07:34,390 --> 00:07:31,360

thousands of work workers have really

160

00:07:36,390 --> 00:07:34,400

worked on the vehicle since about 1984.

161

00:07:38,710 --> 00:07:36,400

um so we all think about that but the

162

00:07:40,150 --> 00:07:38,720

truth is once we get close to launch

163

00:07:42,150 --> 00:07:40,160

countdown we're not really thinking

164

00:07:43,749 --> 00:07:42,160

about uh discovery's last flight we're

165

00:07:46,710 --> 00:07:43,759

thinking about doing our job so uh

166

00:07:49,350 --> 00:07:46,720

honestly from uh you know from uh prior

167

00:07:50,710 --> 00:07:49,360

to liftoff on through liftoff and ascent

168

00:07:52,710 --> 00:07:50,720

we're primarily focusing on our jobs

169

00:07:54,309 --> 00:07:52,720

having said that uh it's a real

170

00:07:57,270 --> 00:07:54,319

privilege to be on this last flight of

171

00:07:59,189 --> 00:07:57,280

discovery and and uh i have flown flown

172

00:08:00,790 --> 00:07:59,199

her three times now and she's just great

173

00:08:02,469 --> 00:08:00,800

vehicles still

174

00:08:04,230 --> 00:08:02,479

here in boston we're quite interested in

175

00:08:06,390 --> 00:08:04,240

our two local astronauts mission

176
00:08:07,990 --> 00:08:06,400
specialist stephen bowen of cohasset and

177
00:08:10,550 --> 00:08:08,000
flood engineer katie coleman of

178
00:08:11,990 --> 00:08:10,560
shelburne falls first katie i saw in one

179
00:08:14,629 --> 00:08:12,000
interview that you did that you play the

180
00:08:16,150 --> 00:08:14,639
flute in space continuing to keep up

181
00:08:18,070 --> 00:08:16,160
hobbies from home describe the

182
00:08:20,230 --> 00:08:18,080
camaraderie if you will aboard the space

183
00:08:22,070 --> 00:08:20,240
station especially when you have a new

184
00:08:26,950 --> 00:08:22,080
guest it must be a red letter day when a

185
00:08:31,670 --> 00:08:28,869
well there are six of us aboard here uh

186
00:08:34,149 --> 00:08:31,680
before sts-133 showed up uh two

187
00:08:35,670 --> 00:08:34,159
americans one italian three russians and

188
00:08:37,350 --> 00:08:35,680

you know we're all different kinds of

189

00:08:39,909 --> 00:08:37,360

people but we have a common goal and

190

00:08:42,149 --> 00:08:39,919

that is to live and work in space and

191

00:08:44,790 --> 00:08:42,159

and see what uh you know see what great

192

00:08:45,990 --> 00:08:44,800

things that we can we can do from here

193

00:08:47,829 --> 00:08:46,000

um

194

00:08:49,829 --> 00:08:47,839

to me it's just uh it's a marvelous

195

00:08:51,509 --> 00:08:49,839

place to live and work and when these

196

00:08:52,710 --> 00:08:51,519

folks showed up i'll tell you i didn't

197

00:08:54,630 --> 00:08:52,720

realize maybe that i'd been a little

198

00:08:57,430 --> 00:08:54,640

lonely until you got here and it's just

199

00:08:59,430 --> 00:08:57,440

so nice to see other people and and talk

200

00:09:01,430 --> 00:08:59,440

about different things and also just

201
00:09:03,509 --> 00:09:01,440
bring some new perspective and new

202
00:09:05,269 --> 00:09:03,519
excitement you know even on a place as

203
00:09:07,509 --> 00:09:05,279
marvelous as the space station sometimes

204
00:09:09,910 --> 00:09:07,519
you wake up going okay it's another day

205
00:09:11,430 --> 00:09:09,920
in space and uh i think new folks bring

206
00:09:12,870 --> 00:09:11,440
a perspective that we're we're really

207
00:09:14,230 --> 00:09:12,880
pretty lucky to be up here in such a

208
00:09:15,829 --> 00:09:14,240
special place

209
00:09:17,750 --> 00:09:15,839
this question is for mission specialist

210
00:09:19,430 --> 00:09:17,760
stephen bowen you have two spacewalks

211
00:09:24,710 --> 00:09:19,440
scheduled outline what you are are your

212
00:09:28,070 --> 00:09:25,829
well tomorrow we'll have our first

213
00:09:29,829 --> 00:09:28,080

spacewalk and our our objective tomorrow

214

00:09:31,269 --> 00:09:29,839

is really to set up so they can install

215

00:09:32,790 --> 00:09:31,279

the pmm

216

00:09:35,190 --> 00:09:32,800

the following day

217

00:09:36,550 --> 00:09:35,200

after that we're going to reposition the

218

00:09:38,230 --> 00:09:36,560

pump module which failed this summer

219

00:09:39,509 --> 00:09:38,240

we're going to put it back

220

00:09:41,509 --> 00:09:39,519

to its

221

00:09:43,829 --> 00:09:41,519

carrier basically where it will be taken

222

00:09:45,509 --> 00:09:43,839

down on a later flight

223

00:09:46,230 --> 00:09:45,519

and then after that we'll be moving on

224

00:09:48,230 --> 00:09:46,240

to

225

00:09:49,190 --> 00:09:48,240

a lot of cleanup tasks if we have the

226

00:09:50,550 --> 00:09:49,200

time

227

00:09:51,910 --> 00:09:50,560

those are the two primary objectives for

228

00:09:53,190 --> 00:09:51,920

tomorrow the next

229

00:09:55,750 --> 00:09:53,200

eva

230

00:09:57,590 --> 00:09:55,760

we're kind of all over station al's on

231

00:09:59,350 --> 00:09:57,600

one side i'm on the other

232

00:10:00,870 --> 00:09:59,360

we have a carrier that's coming off the

233

00:10:01,670 --> 00:10:00,880

columbus is going back to the payload

234

00:10:03,750 --> 00:10:01,680

bay

235

00:10:06,069 --> 00:10:03,760

al's got a lot of work to do on the back

236

00:10:08,069 --> 00:10:06,079

side of the truss trying to

237

00:10:09,509 --> 00:10:08,079

repair some radiator beams that hadn't

238

00:10:10,949 --> 00:10:09,519

didn't quite fit the last time so we

239

00:10:12,310 --> 00:10:10,959

tried to fix them so al's got that on

240

00:10:14,389 --> 00:10:12,320

his plate

241

00:10:15,430 --> 00:10:14,399

so really it's a lot of tasks all over

242

00:10:17,190 --> 00:10:15,440

the station

243

00:10:19,030 --> 00:10:17,200

you were assigned to this mission after

244

00:10:20,870 --> 00:10:19,040

a fellow astronaut tim copper was

245

00:10:23,030 --> 00:10:20,880

scratched following a bicycle accident

246

00:10:28,630 --> 00:10:23,040

in mid-january did the relatively short

247

00:10:31,670 --> 00:10:30,550

well yeah

248

00:10:33,509 --> 00:10:31,680

obviously there's a lot of things i

249

00:10:35,590 --> 00:10:33,519

don't know uh that i'm trying to catch

250

00:10:36,870 --> 00:10:35,600

up that are specific to this mission uh

251

00:10:38,230 --> 00:10:36,880

but these guys been training together

252

00:10:40,870 --> 00:10:38,240

for so long and they know this mission

253

00:10:42,870 --> 00:10:40,880

so well uh they've been able to to pick

254

00:10:43,829 --> 00:10:42,880

up the slack that i kind of brought on

255

00:10:45,750 --> 00:10:43,839

board

256

00:10:48,230 --> 00:10:45,760

and they've got me covered pretty well

257

00:10:50,389 --> 00:10:48,240

plus they've put together these evas so

258

00:10:52,389 --> 00:10:50,399

well the choreography is so clean tim

259

00:10:53,829 --> 00:10:52,399

and al did such a fantastic job as did

260

00:11:01,990 --> 00:10:53,839

the

261

00:11:02,000 --> 00:11:20,069

as well as time

262

00:11:29,430 --> 00:11:21,829

stephen do you look for home boston as

263

00:11:33,670 --> 00:11:31,750

i haven't had a chance to yet uh from on

264

00:11:35,430 --> 00:11:33,680

this mission but the last mission

265

00:11:36,949 --> 00:11:35,440

uh absolutely spent some time looking

266

00:11:37,990 --> 00:11:36,959

down got some great pictures coming up

267

00:11:40,630 --> 00:11:38,000

the coast

268

00:11:42,710 --> 00:11:40,640

uh that i managed to share on a couple

269

00:11:44,069 --> 00:11:42,720

of visits back home

270

00:11:45,509 --> 00:11:44,079

uh on the previous mission i was

271

00:11:48,470 --> 00:11:45,519

actually out

272

00:11:50,069 --> 00:11:48,480

eva and uh eric was on the flight deck

273

00:11:51,269 --> 00:11:50,079

called out so we're about to go up over

274

00:11:52,870 --> 00:11:51,279

boston

275

00:11:54,310 --> 00:11:52,880

but the sun's setting so i couldn't see

276

00:11:55,910 --> 00:11:54,320

the ground but it was one of those

277

00:11:57,590 --> 00:11:55,920

events where they could see the space

278

00:12:00,150 --> 00:11:57,600

station passing overhead as i was

279

00:12:03,030 --> 00:12:00,160

outside so i waved down to my sister who

280

00:12:04,310 --> 00:12:03,040

i know was outside waving back up

281

00:12:06,150 --> 00:12:04,320

my last question is for shuttle

282

00:12:07,990 --> 00:12:06,160

commander stephen lindsey discovery is

283

00:12:09,829 --> 00:12:08,000

going to be housed at the smithsonian

284

00:12:11,509 --> 00:12:09,839

you have such extensive knowledge of the

285

00:12:13,269 --> 00:12:11,519

shuttle if you were going to play tour

286

00:12:18,069 --> 00:12:13,279

guide what would you most want to show

287

00:12:22,150 --> 00:12:20,310

that's a good question um

288

00:12:23,910 --> 00:12:22,160

i guess i guess what i would really want

289

00:12:25,910 --> 00:12:23,920

is i would want visitors to get a

290

00:12:26,790 --> 00:12:25,920

perspective of the shuttle like we have

291

00:12:27,910 --> 00:12:26,800

um

292

00:12:29,750 --> 00:12:27,920

the uh

293

00:12:31,509 --> 00:12:29,760

to me it's uh if you're gonna display

294

00:12:32,949 --> 00:12:31,519

one of these ideally what i like is i

295

00:12:34,790 --> 00:12:32,959

like an opportunity for people to be

296

00:12:37,030 --> 00:12:34,800

able to not only get up close and

297

00:12:39,030 --> 00:12:37,040

personal look around the outside of the

298

00:12:40,710 --> 00:12:39,040

vehicle but but maybe take a walk

299

00:12:42,230 --> 00:12:40,720

through the payload bay and see what's

300

00:12:44,550 --> 00:12:42,240

out in the payload bay where all the

301
00:12:46,710 --> 00:12:44,560
cargo that we carry because there's

302
00:12:48,790 --> 00:12:46,720
there's not a vehicle uh that's ever

303
00:12:50,150 --> 00:12:48,800
been able to lift as much as we can into

304
00:12:52,150 --> 00:12:50,160
low earth orbit and i don't think there

305
00:12:53,910 --> 00:12:52,160
will be for quite some time in the

306
00:12:55,990 --> 00:12:53,920
future um but i also like them to be

307
00:12:57,509 --> 00:12:56,000
able to get on board in the mid deck and

308
00:13:00,150 --> 00:12:57,519
the flight deck and experience what it's

309
00:13:01,829 --> 00:13:00,160
like to uh to fly the vehicle as well as

310
00:13:03,829 --> 00:13:01,839
what it's like to uh to live in the

311
00:13:05,509 --> 00:13:03,839
vehicle because we not only obviously

312
00:13:08,710 --> 00:13:05,519
fly it and take it up to space but we

313
00:13:10,470 --> 00:13:08,720

live in it uh for days on end um so i

314

00:13:11,990 --> 00:13:10,480

guess what i'd really like is though for

315

00:13:13,750 --> 00:13:12,000

the way to be displayed display in such

316

00:13:16,069 --> 00:13:13,760

a way and i'm not sure how to do this

317

00:13:18,710 --> 00:13:16,079

such that everybody can walk through and

318

00:13:20,629 --> 00:13:18,720

get a sense of what it was like to fly

319

00:13:23,670 --> 00:13:20,639

and what it's like to

320

00:13:25,269 --> 00:13:23,680

to live in this spacecraft in space

321

00:13:27,110 --> 00:13:25,279

well thank you all for your time we wish

322

00:13:31,990 --> 00:13:27,120

you a successful mission aboard

323

00:13:37,750 --> 00:13:34,790

thank you very much

324

00:13:40,230 --> 00:13:37,760

discovery iss this is houston acr that

325

00:13:42,389 --> 00:13:40,240

concludes the wbz radio portion of the

326

00:13:46,150 --> 00:13:42,399

event please stand by for a voice check

327

00:13:53,189 --> 00:13:49,509

discovery iss this is wsb-tv how do you

328

00:13:56,949 --> 00:13:54,629

we hear you loud and clear welcome

329

00:13:58,550 --> 00:13:56,959

aboard the international space station

330

00:14:00,550 --> 00:13:58,560

it is an honor to be here thank you very

331

00:14:01,990 --> 00:14:00,560

much it sounds like you all had a long

332

00:14:03,590 --> 00:14:02,000

first night on this mission i want to

333

00:14:06,310 --> 00:14:03,600

hear all about that in a minute but

334

00:14:08,870 --> 00:14:06,320

first i want to ask atlanta's hometown

335

00:14:12,230 --> 00:14:08,880

hero colonel eric bowe the pilot of the

336

00:14:13,829 --> 00:14:12,240

shuttle about that 360 degree backflip

337

00:14:15,670 --> 00:14:13,839

you performed with the shuttle before

338

00:14:17,910 --> 00:14:15,680

connecting to the space station how do

339

00:14:23,030 --> 00:14:17,920

you practice that and how did things

340

00:14:26,550 --> 00:14:25,030

well actually we were really commenting

341

00:14:28,230 --> 00:14:26,560

we practice it a lot of times in the

342

00:14:30,710 --> 00:14:28,240

simulator but when you see it in real

343

00:14:32,710 --> 00:14:30,720

life it looks a lot different the the

344

00:14:35,189 --> 00:14:32,720

the how big the space station is

345

00:14:37,030 --> 00:14:35,199

incredible we we come up to 600 feet

346

00:14:39,189 --> 00:14:37,040

below the space station and then we

347

00:14:41,670 --> 00:14:39,199

basically just pitch

348

00:14:43,269 --> 00:14:41,680

around 360 degrees and you get some

349

00:14:45,269 --> 00:14:43,279

really good views from the space shuttle

350

00:14:46,790 --> 00:14:45,279

you see it out the front windows out the

351

00:14:50,150 --> 00:14:46,800

back windows and up through the top

352

00:14:51,670 --> 00:14:50,160

windows and it's truly a sight to see

353

00:14:54,069 --> 00:14:51,680

and when you add in the effect that you

354

00:14:56,310 --> 00:14:54,079

have the earth going on on underneath

355

00:14:58,470 --> 00:14:56,320

you it's really amazing

356

00:15:02,710 --> 00:14:58,480

and how did things look under there

357

00:15:06,949 --> 00:15:05,350

yeah everything looks great and uh we're

358

00:15:08,230 --> 00:15:06,959

everything's looking great on our side

359

00:15:11,189 --> 00:15:08,240

as well and we're getting ready to put

360

00:15:13,750 --> 00:15:11,199

the pmm on here shortly so let's uh add

361

00:15:14,790 --> 00:15:13,760

that last piece on the u.s side and

362

00:15:18,150 --> 00:15:14,800

station

363

00:15:19,910 --> 00:15:18,160

quite a move there commander lindsey

364

00:15:21,910 --> 00:15:19,920

what happened last night what major

365

00:15:29,430 --> 00:15:21,920

milestones do you want to accomplish on

366

00:15:34,389 --> 00:15:31,829

oh um well we went a little late last

367

00:15:36,629 --> 00:15:34,399

night uh once we got uh docked and i

368

00:15:37,670 --> 00:15:36,639

think we talked pretty close to on time

369

00:15:39,990 --> 00:15:37,680

um

370

00:15:41,829 --> 00:15:40,000

we have we basically have to retract the

371

00:15:43,430 --> 00:15:41,839

docking ring which which brings the

372

00:15:45,350 --> 00:15:43,440

space station space shuttle together so

373

00:15:47,430 --> 00:15:45,360

we can form a pressure seal

374

00:15:49,509 --> 00:15:47,440

and uh it was a little misaligned which

375

00:15:51,990 --> 00:15:49,519

is fairly common so it took us a little

376

00:15:53,350 --> 00:15:52,000

bit longer than we expected to get fully

377

00:15:55,590 --> 00:15:53,360

docked and pressurized and gets the

378

00:15:57,430 --> 00:15:55,600

hatches open but the first activity we

379

00:16:00,230 --> 00:15:57,440

needed to do the big one was to install

380

00:16:02,949 --> 00:16:00,240

the express logistics carrier which is a

381

00:16:05,110 --> 00:16:02,959

a carrier that carries external payloads

382

00:16:07,430 --> 00:16:05,120

on the outside of the space station uh

383

00:16:08,870 --> 00:16:07,440

in in spares things like that so we had

384

00:16:12,389 --> 00:16:08,880

to install that robotically which

385

00:16:14,310 --> 00:16:12,399

required what's called a a double uh

386

00:16:15,749 --> 00:16:14,320

double walk off of arms where we used

387

00:16:17,910 --> 00:16:15,759

both the shuttle and the station arm to

388

00:16:19,829 --> 00:16:17,920

do it so it was a complex robotic

389

00:16:21,829 --> 00:16:19,839

scenario we had to go through we got a

390

00:16:22,870 --> 00:16:21,839

late start and as a result we got a late

391

00:16:24,470 --> 00:16:22,880

finish but

392

00:16:26,870 --> 00:16:24,480

we really wanted to get it done last

393

00:16:28,550 --> 00:16:26,880

night and so uh we all elected to stay

394

00:16:30,150 --> 00:16:28,560

up just a little bit late to get it done

395

00:16:31,590 --> 00:16:30,160

and i'm and i'm and i'm happy to say

396

00:16:32,949 --> 00:16:31,600

that was successful

397

00:16:34,949 --> 00:16:32,959

wonderful news you all look great

398

00:16:37,590 --> 00:16:34,959

considering that and uh colonel beau

399

00:16:39,430 --> 00:16:37,600

this is discovery's last flight so

400

00:16:41,189 --> 00:16:39,440

what's next for you along with all the

401
00:16:47,030 --> 00:16:41,199
other crew members and for the shuttle

402
00:16:49,829 --> 00:16:48,710
that's a great question you know there's

403
00:16:51,189 --> 00:16:49,839
there's uh

404
00:16:52,629 --> 00:16:51,199
you know for the future after the

405
00:16:54,470 --> 00:16:52,639
shuttle those things are being worked

406
00:16:56,230 --> 00:16:54,480
out right now decisions are being made

407
00:16:57,910 --> 00:16:56,240
on high for future vehicles we're

408
00:16:59,269 --> 00:16:57,920
looking at commercial vehicles to carry

409
00:17:01,269 --> 00:16:59,279
astronauts up to the space station

410
00:17:04,470 --> 00:17:01,279
obviously we'll continue coming up to

411
00:17:06,390 --> 00:17:04,480
the space station on board soyuz's as

412
00:17:07,590 --> 00:17:06,400
far as me personally that's one of the

413
00:17:09,909 --> 00:17:07,600

things yeah i would love to have the

414

00:17:11,350 --> 00:17:09,919

chance to fly on uh up to uh space

415

00:17:12,150 --> 00:17:11,360

station and get the chance to live up

416

00:17:14,390 --> 00:17:12,160

here

417

00:17:15,990 --> 00:17:14,400

like katie and scott for

418

00:17:17,510 --> 00:17:16,000

up to six months that would be a great

419

00:17:18,949 --> 00:17:17,520

opportunity but obviously there's a lot

420

00:17:20,789 --> 00:17:18,959

of other people who'd like to do that as

421

00:17:21,669 --> 00:17:20,799

well so have to see how those things

422

00:17:23,189 --> 00:17:21,679

work out you know it's one of the

423

00:17:24,789 --> 00:17:23,199

mysteries in life so an astronaut is how

424

00:17:27,510 --> 00:17:24,799

you get assigned a mission so if i'm

425

00:17:29,110 --> 00:17:27,520

lucky enough i'd like to do it again

426

00:17:31,830 --> 00:17:29,120

fantastic well with moves like that i'm

427

00:17:33,669 --> 00:17:31,840

sure you'll get your chance uh this last

428

00:17:35,750 --> 00:17:33,679

question to anybody who wants to chime

429

00:17:38,470 --> 00:17:35,760

in here but i remember the first shuttle

430

00:17:40,390 --> 00:17:38,480

flight back in 1981 my three daughters

431

00:17:43,990 --> 00:17:40,400

don't they have no idea do you think

432

00:17:46,230 --> 00:17:44,000

space travel is getting to be old news

433

00:17:56,710 --> 00:17:46,240

what's next for nasa after the shuttle

434

00:18:00,549 --> 00:17:58,470

well i think the objective that nasa set

435

00:18:02,470 --> 00:18:00,559

out back in 58

436

00:18:03,830 --> 00:18:02,480

was that that space travel shouldn't

437

00:18:05,750 --> 00:18:03,840

really be news after a while it should

438

00:18:07,190 --> 00:18:05,760

be part of our routine existence and so

439

00:18:08,789 --> 00:18:07,200

to think that we've had the space

440

00:18:10,710 --> 00:18:08,799

station continually inhabited for the

441

00:18:12,310 --> 00:18:10,720

last 10 years so there are fifth graders

442

00:18:14,230 --> 00:18:12,320

who've never known the space station not

443

00:18:15,909 --> 00:18:14,240

to be in space with astronauts on board

444

00:18:17,190 --> 00:18:15,919

i think is a major success a milestone

445

00:18:19,110 --> 00:18:17,200

for nasa

446

00:18:21,510 --> 00:18:19,120

so what i look forward to in the future

447

00:18:23,190 --> 00:18:21,520

is when space travel becomes routine uh

448

00:18:24,789 --> 00:18:23,200

just as back in the 1930s only

449

00:18:26,390 --> 00:18:24,799

daredevils and barnstormers took to the

450

00:18:28,630 --> 00:18:26,400

skies and now we have everybody flying

451

00:18:31,270 --> 00:18:28,640

around in airlines at some point and uh

452

00:18:33,110 --> 00:18:31,280

before these children become old uh we

453

00:18:34,710 --> 00:18:33,120

should have routine travel people above

454

00:18:36,630 --> 00:18:34,720

the planet here and above earth here and

455

00:18:38,470 --> 00:18:36,640

maybe traveling out to the moon uh for

456

00:18:39,990 --> 00:18:38,480

nasa i think the push out into the solar

457

00:18:40,950 --> 00:18:40,000

system is what's next for us to go to

458

00:18:43,190 --> 00:18:40,960

the moon

459

00:18:44,870 --> 00:18:43,200

go to mars the asteroid belt to go and

460

00:18:48,230 --> 00:18:44,880

explore to push out the frontiers which

461

00:18:49,669 --> 00:18:48,240

we've been doing since 1958

462

00:18:52,150 --> 00:18:49,679

commander lindsay i know i'm running out

463

00:18:54,830 --> 00:18:52,160

of time but tell us finally

464

00:18:57,190 --> 00:18:54,840

what you hope the shuttle will be

465

00:19:03,669 --> 00:18:57,200

remembered uh how it will be remembered

466

00:19:08,230 --> 00:19:05,669

i think it's uh the unique thing about

467

00:19:11,029 --> 00:19:08,240

the shuttle is its ability to uh to

468

00:19:13,110 --> 00:19:11,039

carry a large payloads and people into

469

00:19:16,630 --> 00:19:13,120

space and back it's been a workhorse for

470

00:19:18,150 --> 00:19:16,640

uh nearly 30 years i guess now and uh

471

00:19:19,750 --> 00:19:18,160

i think what it'll be remembered for the

472

00:19:21,350 --> 00:19:19,760

way i think about the shuttle when you

473

00:19:23,350 --> 00:19:21,360

really look at it and what we've done

474

00:19:25,909 --> 00:19:23,360

with it the the space shuttle can do

475

00:19:27,669 --> 00:19:25,919

everything except leave low earth orbit

476

00:19:29,750 --> 00:19:27,679

it can carry payloads and people into

477

00:19:31,990 --> 00:19:29,760

space we can do science with it we dock

478

00:19:34,310 --> 00:19:32,000

with space stations we turned it into

479

00:19:36,630 --> 00:19:34,320

orbiting laboratory laboratories we've

480

00:19:38,390 --> 00:19:36,640

done extensive robotics operations as

481

00:19:40,230 --> 00:19:38,400

well as spacewalks with it and so if you

482

00:19:42,390 --> 00:19:40,240

really look what the shuttle can do

483

00:19:43,990 --> 00:19:42,400

it can do everything you can think of

484

00:19:45,990 --> 00:19:44,000

pretty much in space and it lands on a

485

00:19:48,310 --> 00:19:46,000

runway and so i think the class of

486

00:19:50,630 --> 00:19:48,320

spacecraft will see in the future again

487

00:19:52,230 --> 00:19:50,640

someday i don't know when but i think

488

00:19:54,310 --> 00:19:52,240

it's going to be a long long time before

489

00:19:55,830 --> 00:19:54,320

we see a vehicle that can lift and do as

490

00:19:57,430 --> 00:19:55,840

many things as the shuttle can so i

491

00:19:59,990 --> 00:19:57,440

think it'll be remembered

492

00:20:02,470 --> 00:20:00,000

fondly as is a great success and

493

00:20:03,990 --> 00:20:02,480

a in a great design

494

00:20:04,950 --> 00:20:04,000

that will probably be repeated in the

495

00:20:06,710 --> 00:20:04,960

future

496

00:20:08,630 --> 00:20:06,720

commander colonel everybody on board

497

00:20:12,070 --> 00:20:08,640

thank you very much have a safe trip

498

00:20:12,080 --> 00:20:16,070

thank you enjoy talking to you

499

00:20:21,750 --> 00:20:19,110

discovery iss this is houston acr that

500

00:20:23,990 --> 00:20:21,760

concludes the wsb tv portion of the

501
00:20:27,510 --> 00:20:24,000
event please stand by for a voice check

502
00:20:30,549 --> 00:20:27,520
from wtvv tv

503
00:20:34,149 --> 00:20:30,559
discovery iss this is wtvv tv how do you

504
00:20:37,510 --> 00:20:35,590
we hear you loud and clear welcome

505
00:20:39,270 --> 00:20:37,520
aboard the international space station

506
00:20:40,549 --> 00:20:39,280
thank you so much for having us uh we

507
00:20:41,510 --> 00:20:40,559
really appreciate you taking out your

508
00:20:42,789 --> 00:20:41,520
time

509
00:20:44,470 --> 00:20:42,799
first of all what is it like knowing

510
00:20:55,270 --> 00:20:44,480
this is the very last mission for

511
00:20:59,590 --> 00:20:57,350
well discovery is a really historic

512
00:21:01,510 --> 00:20:59,600
vehicle a lot of ways it took its name

513
00:21:03,190 --> 00:21:01,520

from a lot of ships of exploration over

514

00:21:04,710 --> 00:21:03,200

many centuries and it comes with a

515

00:21:06,070 --> 00:21:04,720

pretty rich heritage and it's really

516

00:21:08,149 --> 00:21:06,080

lived up to that

517

00:21:10,070 --> 00:21:08,159

and when you think about when you retire

518

00:21:11,909 --> 00:21:10,080

a vehicle usually it's when it's old and

519

00:21:13,029 --> 00:21:11,919

dilapidated but discoveries at the top

520

00:21:14,710 --> 00:21:13,039

of her game

521

00:21:16,789 --> 00:21:14,720

she just performed magnificently getting

522

00:21:18,789 --> 00:21:16,799

us up here and that's pretty much what

523

00:21:20,549 --> 00:21:18,799

you need for space flight it's a it's

524

00:21:22,630 --> 00:21:20,559

where technology has to work it's

525

00:21:24,070 --> 00:21:22,640

cutting edge and discovery's still doing

526
00:21:26,549 --> 00:21:24,080
that so i think we're all going to be

527
00:21:28,230 --> 00:21:26,559
kind of sad to see it go

528
00:21:29,909 --> 00:21:28,240
but i think it

529
00:21:32,950 --> 00:21:29,919
needs to be replaced by something that

530
00:21:34,390 --> 00:21:32,960
can do more things different things and

531
00:21:35,909 --> 00:21:34,400
we're going to remember discovery and

532
00:21:37,669 --> 00:21:35,919
all the shuttle fleet i think is the

533
00:21:39,990 --> 00:21:37,679
most capable vehicles that have ever

534
00:21:42,149 --> 00:21:40,000
flown in space

535
00:21:43,909 --> 00:21:42,159
well tomorrow is uh the your mission's

536
00:21:45,350 --> 00:21:43,919
first big spacewalk and this is the

537
00:21:46,789 --> 00:21:45,360
question is from mission specialist

538
00:21:48,470 --> 00:21:46,799

steve bowen you were a late cover to

539

00:21:49,909 --> 00:21:48,480

this mission since timothy copper broke

540

00:21:55,430 --> 00:21:49,919

his leg before the mission did he give

541

00:21:59,350 --> 00:21:57,510

actually tim's been uh integral to my

542

00:22:01,909 --> 00:21:59,360

learning the space walks he's been out

543

00:22:04,070 --> 00:22:01,919

there at our nbl runs i've visited him

544

00:22:05,510 --> 00:22:04,080

several times talked to him on the phone

545

00:22:08,310 --> 00:22:05,520

trying to make sure i understand the

546

00:22:10,230 --> 00:22:08,320

procedures uh you know you come in late

547

00:22:11,590 --> 00:22:10,240

and tim and al had already choreographed

548

00:22:12,870 --> 00:22:11,600

these procedures were ready to run them

549

00:22:14,549 --> 00:22:12,880

months ago

550

00:22:16,310 --> 00:22:14,559

before the first delay

551
00:22:18,789 --> 00:22:16,320
so stepping in late

552
00:22:22,070 --> 00:22:18,799
i'm relying on their choreography

553
00:22:23,430 --> 00:22:22,080
and uh so i'm learning from them

554
00:22:25,110 --> 00:22:23,440
well this question is for mission

555
00:22:26,950 --> 00:22:25,120
specialist nicole stott we're very proud

556
00:22:28,870 --> 00:22:26,960
to have you with our hometown astronaut

557
00:22:33,909 --> 00:22:28,880
is your family keeping tabs on you and

558
00:22:37,750 --> 00:22:35,909
yeah of course they're keeping tabs on

559
00:22:39,350 --> 00:22:37,760
me and thanks for following the missions

560
00:22:41,590 --> 00:22:39,360
again um

561
00:22:44,390 --> 00:22:41,600
we have a number of ways to communicate

562
00:22:46,789 --> 00:22:44,400
from up here one is uh via email which

563
00:22:49,590 --> 00:22:46,799

we uh uplink and downlink several times

564

00:22:51,190 --> 00:22:49,600

a day so we use that but also uh now

565

00:22:52,470 --> 00:22:51,200

that we're here with the space station

566

00:22:54,390 --> 00:22:52,480

we have

567

00:22:56,149 --> 00:22:54,400

an ip phone basically a phone through

568

00:22:58,630 --> 00:22:56,159

the computer and the satellite system

569

00:23:00,470 --> 00:22:58,640

that we can use to call home and that's

570

00:23:03,029 --> 00:23:00,480

that's probably the best way along with

571

00:23:05,590 --> 00:23:03,039

uh the coverage from nasa tv but

572

00:23:07,430 --> 00:23:05,600

really uh really uh a good platform up

573

00:23:08,470 --> 00:23:07,440

here for uh staying in touch with your

574

00:23:10,070 --> 00:23:08,480

family

575

00:23:11,270 --> 00:23:10,080

well nicole do you think growing up in

576

00:23:12,950 --> 00:23:11,280

florida made you more interested in

577

00:23:18,950 --> 00:23:12,960

space since you were geographically so

578

00:23:23,190 --> 00:23:21,110

yeah i i think that it probably did it

579

00:23:24,630 --> 00:23:23,200

um it certainly uh puts it right out

580

00:23:26,870 --> 00:23:24,640

there for you you can't help but be

581

00:23:28,950 --> 00:23:26,880

excited about uh opportunities that you

582

00:23:30,789 --> 00:23:28,960

have right there for yourself to to see

583

00:23:33,430 --> 00:23:30,799

launches to know that the kennedy space

584

00:23:35,029 --> 00:23:33,440

center is over there and and i was very

585

00:23:37,909 --> 00:23:35,039

fortunate as well to have a father who

586

00:23:39,510 --> 00:23:37,919

was um very passionate about flying and

587

00:23:41,269 --> 00:23:39,520

got me interested in that which then

588

00:23:42,789 --> 00:23:41,279

kind of evolved into the space flight

589

00:23:43,990 --> 00:23:42,799

thing as well so

590

00:23:44,870 --> 00:23:44,000

i think being in florida definitely

591

00:23:46,070 --> 00:23:44,880

helped

592

00:23:47,269 --> 00:23:46,080

very nice is there anything you'd like

593

00:23:51,830 --> 00:23:47,279

to say to your family and friends in

594

00:23:55,430 --> 00:23:53,830

well i'd like to say uh thanks again to

595

00:23:57,269 --> 00:23:55,440

all of them all of you that i know are

596

00:23:58,789 --> 00:23:57,279

watching launch and that will continue

597

00:24:01,350 --> 00:23:58,799

to follow the mission until we're safely

598

00:24:02,789 --> 00:24:01,360

back there with you and um we look

599

00:24:05,590 --> 00:24:02,799

forward to seeing you in a couple weeks

600

00:24:07,510 --> 00:24:05,600

and keep an eye on nasa tv and um your

601
00:24:10,230 --> 00:24:07,520
new station as well for what's going on

602
00:24:11,430 --> 00:24:10,240
up here oh well thank you very much um

603
00:24:13,110 --> 00:24:11,440
we have a question for everybody what's

604
00:24:15,510 --> 00:24:13,120
it like staying at the international

605
00:24:17,669 --> 00:24:15,520
space station is it more like a motel 6

606
00:24:21,190 --> 00:24:17,679
or more like the ritz what's the heck up

607
00:24:21,200 --> 00:24:25,430
ritz baby

608
00:24:28,950 --> 00:24:27,190
very nice and one more question do you

609
00:24:30,230 --> 00:24:28,960
uh do you guys have the ability to watch

610
00:24:31,590 --> 00:24:30,240
the oscars tonight or are you even

611
00:24:33,909 --> 00:24:31,600
interested will you be watching if you

612
00:24:35,190 --> 00:24:33,919
can or is it mostly just get updates or

613
00:24:39,510 --> 00:24:35,200

how do you guys get information like

614

00:24:43,590 --> 00:24:41,909

yeah we could actually watch it

615

00:24:45,269 --> 00:24:43,600

while we have the

616

00:24:47,669 --> 00:24:45,279

satellite coverage which is probably

617

00:24:49,269 --> 00:24:47,679

about 45 minutes an hour so if we if we

618

00:24:52,549 --> 00:24:49,279

chose to we could have the ground send

619

00:24:53,350 --> 00:24:52,559

it up over a computer software program

620

00:24:55,909 --> 00:24:53,360

and

621

00:24:57,029 --> 00:24:55,919

i really didn't wasn't aware that it was

622

00:24:58,470 --> 00:24:57,039

tonight but

623

00:25:00,390 --> 00:24:58,480

potentially

624

00:25:02,789 --> 00:25:00,400

we could we could watch it if we weren't

625

00:25:04,549 --> 00:25:02,799

uh working

626

00:25:05,909 --> 00:25:04,559

sure i'm sure it's not the

627

00:25:07,669 --> 00:25:05,919

most trusting thing on your mind right

628

00:25:08,870 --> 00:25:07,679

now but uh we thank you for your time we

629

00:25:10,310 --> 00:25:08,880

hope you guys have a successful mission

630

00:25:14,070 --> 00:25:10,320

thank you for taking the time out to be

631

00:25:14,080 --> 00:25:20,070

very welcome

632

00:25:32,549 --> 00:25:23,269

discovery iss this is houston acr thank

633

00:25:36,630 --> 00:25:34,230

here we go

634

00:25:41,110 --> 00:25:36,640

and thanks to the weather channel wbz

635

00:25:42,950 --> 00:25:41,120

radio wsb tv and wvtv tv