



1  
00:00:03,990 --> 00:00:01,910  
hi

2  
00:00:06,950 --> 00:00:04,000  
i'm sts-131

3  
00:00:32,069 --> 00:00:06,960  
mission specialist naoko yamazaki

4  
00:01:27,270 --> 00:01:03,750  
so

5  
00:01:33,510 --> 00:01:29,109  
good morning discovery and a special

6  
00:01:39,910 --> 00:01:36,390  
good morning and thank you so much megan

7  
00:01:41,990 --> 00:01:39,920  
and all the great teams are nasa jackson

8  
00:01:44,550 --> 00:01:42,000  
and international partners

9  
00:01:47,190 --> 00:01:44,560  
special thanks to taiichi and youtube

10  
00:01:49,270 --> 00:01:47,200  
for selecting this beautiful music

11  
00:02:07,109 --> 00:01:49,280  
looking forward to another great day of

12  
00:02:11,990 --> 00:02:08,869  
that sounds great naoko your family is

13  
00:02:14,949 --> 00:02:12,000

here and they're cheering

14

00:02:18,470 --> 00:02:14,959

oh that's great thanks

15

00:02:22,630 --> 00:02:20,309

this is mission control houston and you

16

00:02:25,030 --> 00:02:22,640

were listening as a spacecraft

17

00:02:27,750 --> 00:02:25,040

communicator megan macarthur called up

18

00:02:31,030 --> 00:02:27,760

to wake up discovery's crew and the song

19

00:02:33,190 --> 00:02:31,040

that was played was a pigeon and a boy

20

00:02:34,830 --> 00:02:33,200

and it's by japanese artist

21

00:02:37,830 --> 00:02:34,840

joe

22

00:02:40,070 --> 00:02:37,840

heiseichi and it was played for japan

23

00:03:04,710 --> 00:02:40,080

aerospace exploration agency astronaut

24

00:03:08,710 --> 00:03:06,070

as you can see the space station's

25

00:03:11,270 --> 00:03:08,720

robotic arms moved in now and has a grip

26  
00:03:13,110 --> 00:03:11,280  
on the multi-purpose logistics module

27  
00:03:39,509 --> 00:03:13,120  
inside the space station space shuttle's

28  
00:03:49,589 --> 00:03:41,830  
so i'd like to make sure you are happy

29  
00:03:52,630 --> 00:03:51,430  
and we are happy with that tension we

30  
00:04:10,470 --> 00:03:52,640  
consider it good

31  
00:04:14,309 --> 00:04:11,910  
confirming that they're ready to go on

32  
00:04:15,589 --> 00:04:14,319  
to the next step in their work to begin

33  
00:04:17,110 --> 00:04:15,599  
unpacking the

34  
00:04:20,229 --> 00:04:17,120  
multi-purpose logistics module from the

35  
00:04:25,110 --> 00:04:22,870  
yamazaki is uh joined inside the

36  
00:04:27,270 --> 00:04:25,120  
station's destiny laboratory at the

37  
00:04:29,030 --> 00:04:27,280  
robotic workstation by mission

38  
00:04:31,670 --> 00:04:29,040

specialist stephanie wilson

39

00:04:34,230 --> 00:04:31,680

and helping them out with uh

40

00:04:35,830 --> 00:04:34,240

making sure they get good

41

00:04:44,150 --> 00:04:35,840

video views of the work that they're

42

00:04:47,110 --> 00:04:46,230

it's difficult to tell from this angle

43

00:04:48,469 --> 00:04:47,120

but

44

00:04:50,310 --> 00:04:48,479

the team here on the ground reports that

45

00:04:52,230 --> 00:04:50,320

the unbirth of the

46

00:04:56,150 --> 00:04:52,240

leonardo multipurpose logistics module

47

00:05:00,070 --> 00:04:57,510

mission specialist stephanie wilson and

48

00:05:01,830 --> 00:05:00,080

naoko yamazaki working at the

49

00:05:04,310 --> 00:05:01,840

robotics workstation inside the

50

00:05:08,550 --> 00:05:04,320

station's destiny laboratory

51

00:05:14,629 --> 00:05:11,430

57-foot long robotic arm

52

00:05:18,550 --> 00:05:16,629

13.6

53

00:05:31,270 --> 00:05:18,560

ton temporary module out of the

54

00:05:36,150 --> 00:05:32,870

that module is

55

00:05:38,629 --> 00:05:36,160

21 feet long and 15 feet wide

56

00:05:40,469 --> 00:05:38,639

and weighs a total right now of more

57

00:05:43,029 --> 00:05:40,479

than 13 tons

58

00:05:44,870 --> 00:05:43,039

six tons of that is cargo that

59

00:05:46,870 --> 00:05:44,880

the module is carrying up inside it

60

00:05:48,469 --> 00:05:46,880

basically works as

61

00:05:51,189 --> 00:05:48,479

a moving van

62

00:05:53,110 --> 00:05:51,199

and will be temporarily installed on the

63

00:05:55,590 --> 00:05:53,120

station's harmony node so that the crew

64

00:05:58,150 --> 00:05:55,600

inside the station can unpack all of

65

00:05:59,909 --> 00:05:58,160

that cargo get it inside

66

00:06:02,710 --> 00:05:59,919

the station that's

67

00:06:04,870 --> 00:06:02,720

cargo includes 16 racks four of which

68

00:06:06,629 --> 00:06:04,880

are experiment racks

69

00:06:08,150 --> 00:06:06,639

racks being the

70

00:06:10,469 --> 00:06:08,160

system that the

71

00:06:12,390 --> 00:06:10,479

space station uses to

72

00:06:19,270 --> 00:06:12,400

house equipment and

73

00:06:23,909 --> 00:06:21,590

as i was saying uh four of those racks

74

00:06:26,070 --> 00:06:23,919

are experiment racks the

75

00:06:27,830 --> 00:06:26,080

world observation research facility

76

00:06:29,590 --> 00:06:27,840

which is going to help

77

00:06:31,510 --> 00:06:29,600

improve the

78

00:06:34,070 --> 00:06:31,520

earth observation work that's done from

79

00:06:36,870 --> 00:06:34,080

the station's destiny laboratory window

80

00:06:40,710 --> 00:06:36,880

there's also a

81

00:06:42,070 --> 00:06:40,720

experiment rack that will help improve

82

00:06:43,670 --> 00:06:42,080

or help prevent some of the muscle

83

00:06:45,670 --> 00:06:43,680

atrophy that generally occurs in

84

00:06:48,309 --> 00:06:45,680

astronauts when they live for a long

85

00:06:50,469 --> 00:06:48,319

time in space

86

00:06:52,950 --> 00:06:50,479

and there's a new freezer for the

87

00:06:55,510 --> 00:06:52,960

international space station to keep

88

00:06:58,950 --> 00:06:55,520

the science experiments if they

89

00:07:02,309 --> 00:06:58,960

take part in cold and until they're

90

00:07:04,550 --> 00:07:02,319

ready to be returned to the earth

91

00:07:07,909 --> 00:07:04,560

and one other experiment right called

92

00:07:09,670 --> 00:07:07,919

express rack 7 that's a system that

93

00:07:11,510 --> 00:07:09,680

will provide several different science

94

00:07:13,510 --> 00:07:11,520

experiments with power and water and

95

00:07:15,510 --> 00:07:13,520

other things they need to be successful

96

00:07:16,950 --> 00:07:15,520

as well as just giving them a way to

97

00:07:21,990 --> 00:07:16,960

house it on the international space

98

00:07:26,469 --> 00:07:23,990

the other

99

00:07:28,150 --> 00:07:26,479

12 racks include one system rack for the

100

00:07:30,550 --> 00:07:28,160

space station and

101  
00:07:32,950 --> 00:07:30,560  
11 racks of cargo

102  
00:07:37,589 --> 00:07:32,960  
stored in racks and platform to be

103  
00:07:42,469 --> 00:07:39,430  
the team here on the ground reports that

104  
00:07:43,589 --> 00:07:42,479  
the robotic arm is in motion and moving

105  
00:07:46,790 --> 00:07:43,599  
the

106  
00:07:48,550 --> 00:07:46,800  
leonardo module into place for

107  
00:07:56,790 --> 00:07:48,560  
docking to the

108  
00:08:01,510 --> 00:07:59,350  
cbm operator from the rms operator on

109  
00:08:06,629 --> 00:08:01,520  
the big loop maneuver to rtl complete go

110  
00:08:13,430 --> 00:08:09,350  
and the houston station and a big group

111  
00:08:15,430 --> 00:08:13,440  
we're starting the cbm first speech

112  
00:08:17,029 --> 00:08:15,440  
leonardo multipliers logistics module

113  
00:08:18,710 --> 00:08:17,039

has officially been installed on the

114

00:08:19,909 --> 00:08:18,720

station's harmony node

115

00:08:21,510 --> 00:08:19,919

two days

116

00:08:30,230 --> 00:08:21,520

18 hours and three minutes into

117

00:08:33,670 --> 00:08:31,990

mission specialist stephanie wilson nako

118

00:08:38,149 --> 00:08:33,680

yamazaki just about done with their

119

00:08:40,630 --> 00:08:38,159

robotics work for the day moving the

120

00:08:43,110 --> 00:08:40,640

space station robotic arm further away

121

00:08:44,310 --> 00:08:43,120

from the leonardo multipurpose logistics

122

00:08:45,590 --> 00:08:44,320

module

123

00:08:49,190 --> 00:08:45,600

once they uh

124

00:08:51,030 --> 00:08:49,200

get the arm put away and in to its um

125

00:08:52,790 --> 00:08:51,040

overnight position that'll be the end of

126

00:08:54,790 --> 00:08:52,800

robotics work for today but it'll be

127

00:08:57,829 --> 00:08:54,800

called into action again tomorrow for

128

00:09:00,389 --> 00:08:57,839

the first spacewalk of the mission

129

00:09:01,990 --> 00:09:00,399

where it'll be helping transfer the new

130

00:09:05,030 --> 00:09:02,000

ammonia tank assembly out of the

131

00:09:07,190 --> 00:09:05,040

shuttle's cargo bay and onto a temporary

132

00:09:08,790 --> 00:09:07,200

stowage place

133

00:09:25,509 --> 00:09:08,800

on the station's

134

00:09:29,750 --> 00:09:27,269

and station houston on the big loop for

135

00:09:32,389 --> 00:09:29,760

robo we see the maneuver complete

136

00:09:34,470 --> 00:09:32,399

when you get to the safing switch in the

137

00:09:42,150 --> 00:09:34,480

procedure we need you to hold it for 20

138

00:09:46,470 --> 00:09:44,310

houston we understand when we apply

139

00:09:49,030 --> 00:09:46,480

safing you'd like us to hold the switch

140

00:09:57,190 --> 00:09:49,040

for 2-0 seconds

141

00:10:01,030 --> 00:09:58,550

admission specialist stephanie wilson

142

00:10:03,269 --> 00:10:01,040

there talking with capcom mike jensen

143

00:10:05,030 --> 00:10:03,279

about the robotics work she and mission

144

00:10:07,110 --> 00:10:05,040

specialist naoko yamazaki have been

145

00:10:09,350 --> 00:10:07,120

working on they have the space station's

146

00:10:11,590 --> 00:10:09,360

robotic arm in place for what's going to

147

00:10:14,470 --> 00:10:11,600

be its overnight park position

148

00:10:16,069 --> 00:10:14,480

uh it's poised and ready to begin the

149

00:10:21,910 --> 00:10:16,079

first spacewalk of the mission which

150

00:10:25,509 --> 00:10:23,590

its job during that spacewalk is going

151  
00:10:27,670 --> 00:10:25,519  
to be to move the

152  
00:10:28,790 --> 00:10:27,680  
new ammonia tank assembly carried up by

153  
00:10:30,790 --> 00:10:28,800  
discovery

154  
00:10:33,190 --> 00:10:30,800  
out of the shuttle's cargo bay and over

155  
00:10:34,870 --> 00:10:33,200  
to a temporary storage location on the

156  
00:10:36,550 --> 00:10:34,880  
starboard side of the truss

157  
00:10:38,630 --> 00:10:36,560  
where it's going to spend the

158  
00:10:40,470 --> 00:10:38,640  
couple of nights before the second

159  
00:10:42,470 --> 00:10:40,480  
spacewalk of the mission where it's

160  
00:10:44,550 --> 00:10:42,480  
going to trade place with the

161  
00:10:46,710 --> 00:10:44,560  
old

162  
00:10:48,470 --> 00:10:46,720  
ammonia tank assembly currently uh

163  
00:10:51,269 --> 00:10:48,480

supplying ammonia to the station's

164

00:10:53,430 --> 00:10:51,279

radiators for cooling

165

00:10:55,910 --> 00:10:53,440

it's going to be a complicated set of

166

00:10:58,550 --> 00:10:55,920

space walks with a lot of robotics work

167

00:11:00,389 --> 00:10:58,560

and a lot of robotics work uh between

168

00:11:02,310 --> 00:11:00,399

spacewalks as well to get moved to

169

00:11:05,590 --> 00:11:02,320

different locations to give it the reach

170

00:11:10,310 --> 00:11:05,600

necessary to perform all of the swaps of

171

00:11:14,310 --> 00:11:11,750

look here down into the vestibule

172

00:11:17,430 --> 00:11:14,320

between the leonardo purpose logistics

173

00:11:19,110 --> 00:11:17,440

module in the harmony node

174

00:11:21,430 --> 00:11:19,120

you can see that the hatch on the

175

00:11:23,269 --> 00:11:21,440

harmony side has already been opened and

176

00:11:25,670 --> 00:11:23,279

the crew is working in that area between

177

00:11:26,870 --> 00:11:25,680

the two called the vestibule

178

00:11:28,870 --> 00:11:26,880

in this view

179

00:11:30,230 --> 00:11:28,880

mission specialist clay anderson and

180

00:11:38,150 --> 00:11:30,240

flight engineer

181

00:11:45,670 --> 00:11:40,710

station this is the time joiner morning

182

00:11:54,829 --> 00:11:47,509

good morning tom the international space

183

00:11:59,350 --> 00:11:58,069

clear we are ready for questions

184

00:12:03,430 --> 00:11:59,360

no that's what they're supposed to say

185

00:12:08,949 --> 00:12:04,470

okay

186

00:12:08,959 --> 00:12:13,030

and tom we're ready for your questions

187

00:12:17,110 --> 00:12:15,269

this is uh i assume this is commander

188

00:12:20,470 --> 00:12:17,120

alan poindexter he's the mission

189

00:12:25,990 --> 00:12:20,480

specialist and do you have uh uh

190

00:12:26,000 --> 00:12:29,110

he's here

191

00:12:29,120 --> 00:12:32,389

hi tom how are you

192

00:12:39,430 --> 00:12:34,629

i'm doing very well and how's it how

193

00:12:43,990 --> 00:12:41,430

they're going very well it's a great day

194

00:12:46,470 --> 00:12:44,000

on the space station we were able to

195

00:12:48,310 --> 00:12:46,480

install our cargo carrier and we'll be

196

00:12:51,750 --> 00:12:48,320

delivering a great experiment to the

197

00:12:55,269 --> 00:12:53,430

i understand you had some problems when

198

00:12:57,430 --> 00:12:55,279

you dock on the space station with your

199

00:13:02,470 --> 00:12:57,440

radar antenna is everything all right

200

00:13:05,829 --> 00:13:03,990

everything's all right we'll be able to

201

00:13:07,430 --> 00:13:05,839

make it back just fine and especially

202

00:13:11,750 --> 00:13:07,440

since we're here at the space station we

203

00:13:17,350 --> 00:13:14,710

now nasa has uh this this is the first

204

00:13:20,470 --> 00:13:17,360

crew in space with three female and two

205

00:13:22,230 --> 00:13:20,480

japanese astronauts in the crew did you

206

00:13:28,069 --> 00:13:22,240

get your hair done before you went up in

207

00:13:33,269 --> 00:13:30,790

of course i always try to represent nasa

208

00:13:35,590 --> 00:13:33,279

as best i can so hopefully i'm looking

209

00:13:37,910 --> 00:13:35,600

pretty good and actually this is the

210

00:13:39,829 --> 00:13:37,920

third uh the third flight with three

211

00:13:40,870 --> 00:13:39,839

women on the space shuttle and the first

212

00:13:43,750 --> 00:13:40,880

with four

213

00:13:45,110 --> 00:13:43,760

women in space together as we joined the

214

00:13:47,030 --> 00:13:45,120

tracy caldwell on the international

215

00:13:51,189 --> 00:13:47,040

space station and yes the first was the

216

00:13:54,949 --> 00:13:52,629

and and um

217

00:13:56,710 --> 00:13:54,959

how did you how did you stephanie get

218

00:13:59,350 --> 00:13:56,720

into uh

219

00:14:01,350 --> 00:13:59,360

the business of uh space shuttling or

220

00:14:02,870 --> 00:14:01,360

being becoming an astronaut what was

221

00:14:04,310 --> 00:14:02,880

your what was your what what is your

222

00:14:06,230 --> 00:14:04,320

story where are you from what kind of

223

00:14:12,470 --> 00:14:06,240

classes did you have to take what was

224

00:14:17,110 --> 00:14:14,389

i was very interested in math and

225

00:14:19,509 --> 00:14:17,120

science and i interviewed an astronomy

226

00:14:21,430 --> 00:14:19,519

professor in middle school and that was

227

00:14:27,030 --> 00:14:21,440

the beginning of my

228

00:14:34,069 --> 00:14:29,110

and your struggle was it a struggle to

229

00:14:38,389 --> 00:14:35,829

struggle takes a lot of hard work and

230

00:14:41,030 --> 00:14:38,399

dedication so the young people out there

231

00:14:44,310 --> 00:14:41,040

they study hard and uh stick with it

232

00:14:46,870 --> 00:14:44,320

they can do it too

233

00:14:48,790 --> 00:14:46,880

i'm in orlando this morning with the

234

00:14:50,470 --> 00:14:48,800

census bureau we're counting we're

235

00:14:51,910 --> 00:14:50,480

counting right now have you filled out

236

00:14:55,750 --> 00:14:51,920

your census form before you went up in

237

00:14:59,670 --> 00:14:58,069

i did fill out my census form before

238

00:15:05,430 --> 00:14:59,680

coming to the space station but i did

239

00:15:12,389 --> 00:15:08,790

because this mission is 13 13 days long

240

00:15:13,910 --> 00:15:12,399

so well will you uh we i know we don't

241

00:15:16,310 --> 00:15:13,920

we don't have any more time but there

242

00:15:19,350 --> 00:15:16,320

are a lot of parents who are listening

243

00:15:22,310 --> 00:15:19,360

right now and what can you tell the

244

00:15:26,710 --> 00:15:22,320

parents on how to encourage their kids

245

00:15:31,590 --> 00:15:28,710

absolutely as they encourage their

246

00:15:33,829 --> 00:15:31,600

children if they support them and expose

247

00:15:36,230 --> 00:15:33,839

them to different opportunities going to

248

00:15:38,150 --> 00:15:36,240

museums and going to airports

249

00:15:40,389 --> 00:15:38,160

all the opportunities that the school

250

00:15:42,150 --> 00:15:40,399

field trips have and just open

251

00:15:44,069 --> 00:15:42,160

opportunities to them then they will

252

00:15:47,749 --> 00:15:44,079

dream have big dreams and they can

253

00:15:48,870 --> 00:15:47,759

pursue whatever their hearts desire

254

00:15:50,790 --> 00:15:48,880

that's cool

255

00:15:52,069 --> 00:15:50,800

and uh do you have your ipod with you

256

00:15:56,150 --> 00:15:52,079

what are you listening to up there in

257

00:16:01,829 --> 00:15:58,949

i have an ipod i have some

258

00:16:03,590 --> 00:16:01,839

i have some tunes to exercise too and i

259

00:16:07,110 --> 00:16:03,600

also have some spiritual music for

260

00:16:16,790 --> 00:16:10,470

discovery iss this is wvit-tv how do you

261

00:16:16,800 --> 00:16:21,509

we read you loud and clear

262

00:16:25,269 --> 00:16:23,590

a lot of children say they want to be an

263

00:16:27,910 --> 00:16:25,279

astronaut when they grow up but a

264

00:16:29,910 --> 00:16:27,920

connecticut man is living the dream the

265

00:16:31,990 --> 00:16:29,920

space shuttle discovery rocketed into

266

00:16:34,230 --> 00:16:32,000

orbit on monday with 40 year old

267

00:16:35,990 --> 00:16:34,240

waterbury native rick mastracchio on

268

00:16:37,990 --> 00:16:36,000

board rick joins us from the

269

00:16:39,590 --> 00:16:38,000

international space station along with

270

00:16:41,990 --> 00:16:39,600

two other discovery crew members

271

00:16:49,269 --> 00:16:42,000

commander alan poindexter and mission

272

00:16:49,279 --> 00:16:52,550

how are you today

273

00:16:56,389 --> 00:16:54,470

i'm great i understand there's a delay

274

00:16:58,550 --> 00:16:56,399

we understand that but rick let's start

275

00:17:01,110 --> 00:16:58,560

off with you you played a special lead

276

00:17:05,829 --> 00:17:01,120

role on this trip so tell us more about

277

00:17:11,429 --> 00:17:09,350

hey i am one of the space walkers

278

00:17:13,029 --> 00:17:11,439

along with clay anderson and what we'll

279

00:17:15,189 --> 00:17:13,039

do is tomorrow we'll go out for our

280

00:17:17,429 --> 00:17:15,199

first spacewalk to begin the

281

00:17:19,189 --> 00:17:17,439

installation of a new ammonia tank on

282

00:17:21,590 --> 00:17:19,199

the international space station and then

283

00:17:23,510 --> 00:17:21,600

we'll finish up that task over

284

00:17:26,949 --> 00:17:23,520

two more space walks later on in the

285

00:17:31,430 --> 00:17:28,950

now stephanie you helped set a record

286

00:17:38,870 --> 00:17:31,440

for the most women in space at the same

287

00:17:43,909 --> 00:17:40,710

it's very historic

288

00:17:46,390 --> 00:17:43,919

we of course are very fortunate to have

289

00:17:47,510 --> 00:17:46,400

had many women come before us

290

00:17:49,510 --> 00:17:47,520

to uh

291

00:17:50,870 --> 00:17:49,520

fly in space and so we're very thankful

292

00:17:53,750 --> 00:17:50,880

for their contributions and their

293

00:17:55,909 --> 00:17:53,760

dedication to make it possible for uh

294

00:17:58,310 --> 00:17:55,919

for the ladies on this flight to have an

295

00:17:59,909 --> 00:17:58,320

opportunity we have many in the

296

00:18:02,470 --> 00:17:59,919

astronaut office that they're very

297

00:18:07,669 --> 00:18:02,480

supportive and are good mentors and so

298

00:18:12,470 --> 00:18:09,990

well you are making me extra proud alan

299

00:18:15,029 --> 00:18:12,480

this next question is for you the crew

300

00:18:16,950 --> 00:18:15,039

is on a 13-day mission what kind of work

301  
00:18:22,470 --> 00:18:16,960  
do you have planned i know you're very

302  
00:18:26,549 --> 00:18:24,549  
it's a really busy flight we in this to

303  
00:18:28,870 --> 00:18:26,559  
the three space walk that rick and clay

304  
00:18:31,990 --> 00:18:28,880  
are doing we have

305  
00:18:34,630 --> 00:18:32,000  
about 12 to 13 tons of cargo that we

306  
00:18:36,390 --> 00:18:34,640  
have to get across from the

307  
00:18:38,230 --> 00:18:36,400  
multi-purpose logistics module that's

308  
00:18:39,750 --> 00:18:38,240  
our cargo carrier that we brought up in

309  
00:18:42,070 --> 00:18:39,760  
our payload bay

310  
00:18:44,630 --> 00:18:42,080  
we attached it to the space station this

311  
00:18:46,390 --> 00:18:44,640  
morning stephanie and valko did

312  
00:18:48,470 --> 00:18:46,400  
and just a few minutes ago we opened a

313  
00:18:50,150 --> 00:18:48,480

hatch for that cargo carrier

314

00:18:52,630 --> 00:18:50,160

and we're starting to pull supplies out

315

00:18:54,230 --> 00:18:52,640

now so for the next several days we'll

316

00:18:56,950 --> 00:18:54,240

uh we'll be transferring supplies

317

00:18:58,630 --> 00:18:56,960

science rack research equipment over the

318

00:19:00,630 --> 00:18:58,640

space station

319

00:19:04,470 --> 00:19:00,640

in addition to a new sleeping station

320

00:19:10,070 --> 00:19:07,590

nice now rick back to you growing up in

321

00:19:16,230 --> 00:19:10,080

waterbury i had to ask did you always

322

00:19:20,710 --> 00:19:18,390

i was interested in math and science and

323

00:19:22,549 --> 00:19:20,720

studying things and studying about space

324

00:19:25,350 --> 00:19:22,559

but i never really knew that i could

325

00:19:26,710 --> 00:19:25,360

become an astronaut until i was out of

326

00:19:28,549 --> 00:19:26,720

graduate school and i saw an

327

00:19:30,870 --> 00:19:28,559

advertisement in a magazine and decided

328

00:19:34,710 --> 00:19:30,880

to take a chance and nine years later i

329

00:19:39,830 --> 00:19:37,029

wonderful and the shuttle program comes

330

00:19:42,070 --> 00:19:39,840

to an end after nearly 30 years as

331

00:19:49,270 --> 00:19:42,080

shuttle astronauts will it be a sad day

332

00:19:53,990 --> 00:19:51,350

i don't consider it a sad day at all you

333

00:19:55,830 --> 00:19:54,000

know shuttle has left a great legacy uh

334

00:19:57,270 --> 00:19:55,840

throughout its history

335

00:19:58,310 --> 00:19:57,280

incredible things have done with the

336

00:19:59,350 --> 00:19:58,320

shuttle that

337

00:20:01,110 --> 00:19:59,360

probably could not have been done with

338

00:20:02,549 --> 00:20:01,120

any other vehicle when you think about

339

00:20:04,390 --> 00:20:02,559

the hubble space telescope and the

340

00:20:06,789 --> 00:20:04,400

service commissions to it

341

00:20:08,070 --> 00:20:06,799

and the assembly and uh

342

00:20:09,510 --> 00:20:08,080

and the building of the international

343

00:20:10,789 --> 00:20:09,520

space station

344

00:20:11,830 --> 00:20:10,799

and the use of the international space

345

00:20:13,669 --> 00:20:11,840

station

346

00:20:16,310 --> 00:20:13,679

the shuttle's left incredible legacy

347

00:20:18,950 --> 00:20:16,320

it's a very versatile vehicle and uh

348

00:20:21,029 --> 00:20:18,960

and uh i think it's time to celebrate

349

00:20:25,110 --> 00:20:21,039

the 30 years of flying the vehicle and

350

00:20:29,190 --> 00:20:26,870

you're right it's more of a celebration

351

00:20:31,990 --> 00:20:29,200

i have to ask each and every one of you

352

00:20:39,270 --> 00:20:32,000

what do you do on your downtime i'm just

353

00:20:43,110 --> 00:20:41,029

well one of the great things about being

354

00:20:45,990 --> 00:20:43,120

in space is being able to look at her

355

00:20:49,110 --> 00:20:46,000

and the view out the windows and so

356

00:20:54,230 --> 00:20:49,120

a lot of us spend time looking at earth

357

00:20:57,909 --> 00:20:55,990

yeah i have to agree we spend a lot of

358

00:20:59,430 --> 00:20:57,919

time looking out the window any spare

359

00:21:02,549 --> 00:20:59,440

time that we have which is not much i

360

00:21:04,630 --> 00:21:02,559

should say and then we just enjoy this

361

00:21:06,710 --> 00:21:04,640

enormous space station that we have this

362

00:21:13,190 --> 00:21:06,720

thing is incredible and it's just it's

363

00:21:17,029 --> 00:21:15,029

well i'm looking out the window here and

364

00:21:19,270 --> 00:21:17,039

it's nice but i don't think it's nice is

365

00:21:21,590 --> 00:21:19,280

what you have up there thank you all so

366

00:21:24,549 --> 00:21:21,600

much for your time

367

00:21:28,789 --> 00:21:24,559

discovery iss this is fox news radio how

368

00:21:33,990 --> 00:21:30,789

good morning we have you loud and clear

369

00:21:38,149 --> 00:21:35,990

first the practical stuff commander

370

00:21:40,310 --> 00:21:38,159

poindexter as we talk you've got a

371

00:21:45,029 --> 00:21:40,320

shuttle without a working ku antenna is

372

00:21:49,270 --> 00:21:47,430

not at all we've got a lot of a lot of

373

00:21:50,710 --> 00:21:49,280

capability and a lot of redundancy in

374

00:21:52,630 --> 00:21:50,720

our systems now we're docked to the

375

00:21:53,669 --> 00:21:52,640

international space station

376

00:21:56,230 --> 00:21:53,679

and we're able to use their

377

00:21:57,430 --> 00:21:56,240

communication systems to get our data

378

00:22:02,230 --> 00:21:57,440

and voice

379

00:22:06,789 --> 00:22:04,710

well for rick mastracchio you're doing

380

00:22:08,310 --> 00:22:06,799

three space walks on this mission and

381

00:22:10,070 --> 00:22:08,320

with the shuttle program winding down

382

00:22:12,549 --> 00:22:10,080

you're one of the more experienced nasa

383

00:22:14,630 --> 00:22:12,559

space walkers now most of us down here

384

00:22:20,549 --> 00:22:14,640

will never get the chance what does it

385

00:22:25,830 --> 00:22:23,590

the difficult feeling to describe

386

00:22:27,990 --> 00:22:25,840

the incredible views of the earth from

387

00:22:29,909 --> 00:22:28,000

inside a space suit are just

388

00:22:31,830 --> 00:22:29,919

they're just beautiful the earth is a

389

00:22:33,270 --> 00:22:31,840

beautiful place to look back upon and we

390

00:22:34,630 --> 00:22:33,280

spend a lot of effort trying to get off

391

00:22:36,230 --> 00:22:34,640

the planet and come into space but we

392

00:22:37,669 --> 00:22:36,240

always spend a lot of time looking back

393

00:22:39,350 --> 00:22:37,679

where we came from

394

00:22:41,190 --> 00:22:39,360

the space walks

395

00:22:43,190 --> 00:22:41,200

lot very difficult take a lot of

396

00:22:45,750 --> 00:22:43,200

physical and mental energy

397

00:22:47,590 --> 00:22:45,760

and there's a lot of a lot of risk out

398

00:22:50,789 --> 00:22:47,600

there so we train real hard and we do

399

00:22:55,590 --> 00:22:53,110

and stephanie wilson this is your third

400

00:22:57,029 --> 00:22:55,600

shuttle flight all on the discovery are

401  
00:23:01,830 --> 00:22:57,039  
you starting to feel a little attached

402  
00:23:06,710 --> 00:23:04,149  
definitely um discovery's been a great

403  
00:23:07,909 --> 00:23:06,720  
ship she served me well on two flights

404  
00:23:10,070 --> 00:23:07,919  
and we are having a little bit of

405  
00:23:11,830 --> 00:23:10,080  
trouble with the ku but otherwise she's

406  
00:23:13,830 --> 00:23:11,840  
a great vehicle the folks in florida at

407  
00:23:17,909 --> 00:23:13,840  
the kennedy space center did a great job

408  
00:23:22,390 --> 00:23:19,990  
going back to the commander first it was

409  
00:23:24,710 --> 00:23:22,400  
30 years ago this week that the first

410  
00:23:26,390 --> 00:23:24,720  
space shuttle took off from florida and

411  
00:23:28,950 --> 00:23:26,400  
landed a few hours later at edwards air

412  
00:23:31,830 --> 00:23:28,960  
force base took off

413  
00:23:34,549 --> 00:23:31,840

131 flights later what have we learned

414

00:23:37,430 --> 00:23:34,559

and and what have we gained

415

00:23:39,510 --> 00:23:37,440

well uh that's a great question

416

00:23:41,750 --> 00:23:39,520

i could start with uh where we are today

417

00:23:43,669 --> 00:23:41,760

the international space station is a

418

00:23:46,390 --> 00:23:43,679

wonderful research facility and

419

00:23:48,310 --> 00:23:46,400

world-class laboratory here uh orbiting

420

00:23:49,350 --> 00:23:48,320

200 miles above the earth

421

00:23:52,310 --> 00:23:49,360

every day

422

00:23:54,310 --> 00:23:52,320

the combined weight of the

423

00:23:55,909 --> 00:23:54,320

shuttle and station is uh

424

00:23:57,510 --> 00:23:55,919

approaching a million pounds or just

425

00:23:59,830 --> 00:23:57,520

over a million pounds

426  
00:24:02,230 --> 00:23:59,840  
and it's a marvelous facility we have 13

427  
00:24:03,590 --> 00:24:02,240  
people on board right now and without

428  
00:24:05,990 --> 00:24:03,600  
the shuttle we would not have been able

429  
00:24:08,070 --> 00:24:06,000  
to build this facility the way we did

430  
00:24:09,190 --> 00:24:08,080  
you can also look back the hubble space

431  
00:24:10,789 --> 00:24:09,200  
telescope

432  
00:24:12,310 --> 00:24:10,799  
its deployment and the servicing

433  
00:24:13,350 --> 00:24:12,320  
missions to the hubble

434  
00:24:15,430 --> 00:24:13,360  
again

435  
00:24:17,990 --> 00:24:15,440  
all due to the versatility of the space

436  
00:24:20,070 --> 00:24:18,000  
shuttle we can we get the magnificent

437  
00:24:21,110 --> 00:24:20,080  
views and the great science and research

438  
00:24:25,669 --> 00:24:21,120

that

439

00:24:29,990 --> 00:24:27,909

for all of you uh please as you know

440

00:24:32,310 --> 00:24:30,000

nasa's plans for the future have changed

441

00:24:34,789 --> 00:24:32,320

and those changes will affect the three

442

00:24:37,110 --> 00:24:34,799

of you very profoundly do you think this

443

00:24:39,190 --> 00:24:37,120

could be your last trip into space or do

444

00:24:45,350 --> 00:24:39,200

you think you'll be involved as the

445

00:24:48,870 --> 00:24:47,190

well i can't speak for the others but i

446

00:24:50,470 --> 00:24:48,880

certainly hope to return to space

447

00:24:51,750 --> 00:24:50,480

someday of course i'm not getting any

448

00:24:53,669 --> 00:24:51,760

younger

449

00:24:55,830 --> 00:24:53,679

but nasa will

450

00:25:00,549 --> 00:24:55,840

build a new vehicle in the upcoming

451

00:25:04,470 --> 00:25:02,310

and i agree with rick this is certainly

452

00:25:06,950 --> 00:25:04,480

a special experience and i hope to have

453

00:25:08,789 --> 00:25:06,960

another opportunity to perhaps be a

454

00:25:14,310 --> 00:25:08,799

member of a long duration flight on the

455

00:25:18,470 --> 00:25:16,470

one last question and that is there are

456

00:25:20,310 --> 00:25:18,480

youngsters who'll be listening to this

457

00:25:22,470 --> 00:25:20,320

what do you want to tell them if they're

458

00:25:24,230 --> 00:25:22,480

thinking they want to go into space give

459

00:25:28,630 --> 00:25:24,240

them some direction what should they be

460

00:25:31,549 --> 00:25:29,909

i think the best direction we can give

461

00:25:35,190 --> 00:25:31,559

our youngsters today

462

00:25:37,350 --> 00:25:35,200

is to dream big and follow those dreams

463

00:25:39,110 --> 00:25:37,360

work hard to attain your goals do

464

00:25:41,909 --> 00:25:39,120

something you enjoy

465

00:25:44,230 --> 00:25:41,919

and work very hard at it i think that's

466

00:25:45,750 --> 00:25:44,240

that's the key to success in life is to

467

00:25:47,750 --> 00:25:45,760

do something that you're happy with and

468

00:25:50,950 --> 00:25:47,760

work really hard at it and

469

00:25:55,669 --> 00:25:53,510

they should study hard uh getting ready

470

00:25:58,149 --> 00:25:55,679

for space that math and science are good

471

00:26:00,630 --> 00:25:58,159

uh good things to study engineering

472

00:26:03,029 --> 00:26:00,640

going into aviation through the military

473

00:26:04,710 --> 00:26:03,039

or other career fields are are very good

474

00:26:07,430 --> 00:26:04,720

and the most important thing is really

475

00:26:10,470 --> 00:26:07,440

to work hard try hard and to stick with

476

00:26:14,149 --> 00:26:12,149

yeah i think the commander and stephanie

477

00:26:15,990 --> 00:26:14,159

summed it up pretty well it find out

478

00:26:19,110 --> 00:26:16,000

find something you really enjoy work

479

00:26:20,710 --> 00:26:19,120

very hard at it be dedicated and put in

480

00:26:22,630 --> 00:26:20,720

an application for nasa and see what

481

00:26:24,149 --> 00:26:22,640

happens

482

00:26:26,149 --> 00:26:24,159

as you can see the hatches are open

483

00:26:29,269 --> 00:26:26,159

between the leonardo multipurpose

484

00:26:31,590 --> 00:26:29,279

logistics module and the harmony node

485

00:26:32,630 --> 00:26:31,600

the crew getting uh

486

00:26:35,990 --> 00:26:32,640

to work

487

00:26:38,789 --> 00:26:37,590

you can see all the cargo inside as

488

00:26:41,190 --> 00:26:38,799

we've been mentioning there's more than

489

00:26:42,310 --> 00:26:41,200

12 000 pounds of cargo and supplies and

490

00:26:44,390 --> 00:26:42,320

equipment

491

00:26:46,870 --> 00:26:44,400

inside leonardo all of that has to be

492

00:26:49,750 --> 00:26:46,880

moved out of it and across that hatchway

493

00:26:53,190 --> 00:26:51,430

the crew once they get everything moved

494

00:26:54,390 --> 00:26:53,200

across and put up where it needs to go

495

00:26:56,549 --> 00:26:54,400

we'll be busy

496

00:26:58,630 --> 00:26:56,559

stuffing leonardo full of different

497

00:27:01,750 --> 00:26:58,640

types of equipment and pieces of

498

00:27:02,750 --> 00:27:01,760

structure that have to come back home

499

00:27:05,510 --> 00:27:02,760

there will be

500

00:27:07,750 --> 00:27:05,520

4109 pounds of equipment that will

501  
00:27:09,430 --> 00:27:07,760  
be packed in there for the return ride

502  
00:27:11,350 --> 00:27:09,440  
back to earth

503  
00:27:16,789 --> 00:27:11,360  
inside leonardo which will be tucked

504  
00:27:19,430 --> 00:27:18,070  
the crew is going to be very busy over

505  
00:27:21,510 --> 00:27:19,440  
the next couple of days taking care of

506  
00:27:23,190 --> 00:27:21,520  
all of that they will have

507  
00:27:24,630 --> 00:27:23,200  
each and every night

508  
00:27:26,310 --> 00:27:24,640  
basically a conference call with the

509  
00:27:28,070 --> 00:27:26,320  
ground teams here to make sure that

510  
00:27:30,070 --> 00:27:28,080  
everything is

511  
00:27:31,669 --> 00:27:30,080  
taken care of that needs to be addressed

512  
00:27:32,950 --> 00:27:31,679  
during the cruise day

513  
00:27:34,149 --> 00:27:32,960

and to make sure that the ground teams

514

00:27:36,950 --> 00:27:34,159

are following along that all the

515

00:27:41,750 --> 00:27:36,960

different logistics and inventory items

516

00:27:45,510 --> 00:27:43,510

everything that's inside of there has

517

00:27:47,750 --> 00:27:45,520

its own numbering system until an

518

00:27:50,470 --> 00:27:47,760

assignment in terms of

519

00:27:52,630 --> 00:27:50,480

where it was packed inside leonardo and

520

00:28:04,070 --> 00:27:52,640

also where it ultimately will be stored

521

00:28:08,789 --> 00:28:07,029

and airlock houston

522

00:28:16,950 --> 00:28:08,799

we are on board with you and we're ready

523

00:28:20,710 --> 00:28:18,710

yeah houston we already packed it up we

524

00:28:21,990 --> 00:28:20,720

took some photos uh sweet she took a

525

00:28:23,510 --> 00:28:22,000

couple of photos of it so they'll get

526

00:28:25,029 --> 00:28:23,520

downlinked there it's not a big deal

527

00:28:25,830 --> 00:28:25,039

just some of the paint was scratched we

528

00:28:30,470 --> 00:28:25,840

just want to make sure it gets

529

00:28:33,590 --> 00:28:32,149

okay and we copied this photo call

530

00:28:52,909 --> 00:28:33,600

earlier so

531

00:28:58,630 --> 00:28:55,990

sts-131 crew members rick mastracchio

532

00:29:00,149 --> 00:28:58,640

and clay anderson who are our two space

533

00:29:02,149 --> 00:29:00,159

walkers tomorrow

534

00:29:03,430 --> 00:29:02,159

as well as dottie metcalf lindenberger

535

00:29:06,149 --> 00:29:03,440

who will be serving as the

536

00:29:07,669 --> 00:29:06,159

intravehicular officer or the person who

537

00:29:09,830 --> 00:29:07,679

will be helping coordinate tomorrow's

538

00:29:11,269 --> 00:29:09,840

spacewalk with the crew members are

539

00:29:15,029 --> 00:29:11,279

continuing to work inside the quest

540

00:29:21,669 --> 00:29:19,590

there's jim dutton the sts-131 pilot

541

00:29:24,710 --> 00:29:21,679

you hear the ground team here in houston

542

00:29:27,110 --> 00:29:24,720

asking mastracchio about some video of

543

00:29:29,669 --> 00:29:27,120

an rga which looks like some paint came

544

00:29:31,750 --> 00:29:29,679

off of whenever they unpacked it

545

00:29:35,350 --> 00:29:31,760

this is a rate gyro assembly that the

546

00:29:37,350 --> 00:29:35,360

two spacewalkers will be installing

547

00:29:39,029 --> 00:29:37,360

it seems as whenever they pulled

548

00:29:40,549 --> 00:29:39,039

the wrapping off of it some of the paint

549

00:29:42,070 --> 00:29:40,559

came off it's not going to impact

550

00:29:43,990 --> 00:29:42,080

anything tomorrow at all but they wanted

551  
00:29:47,269 --> 00:29:44,000  
to go ahead and document it

552  
00:29:48,630 --> 00:29:47,279  
via photo or video

553  
00:29:49,990 --> 00:29:48,640  
so they took some pictures of it and

554  
00:30:02,470 --> 00:29:50,000  
we'll send those down to the ground just

555  
00:30:06,149 --> 00:30:04,310  
the two spacewalkers for tomorrow's

556  
00:30:06,830 --> 00:30:06,159  
activities are in the process of doing

557  
00:30:28,630 --> 00:30:06,840  
the

558  
00:30:33,669 --> 00:30:31,909  
all of this activity is done so that

559  
00:30:35,190 --> 00:30:33,679  
the two spacewalkers can avoid what is

560  
00:30:37,350 --> 00:30:35,200  
called the bend

561  
00:30:38,389 --> 00:30:37,360  
anyone who is familiar with any sort of

562  
00:30:41,510 --> 00:30:38,399  
diving

563  
00:30:43,110 --> 00:30:41,520

knows about this effect

564

00:30:45,669 --> 00:30:43,120

but the reduced pressure allows all the

565

00:30:47,750 --> 00:30:45,679

nitrogen inside their bloodstreams to

566

00:30:49,029 --> 00:30:47,760

evacuate

567

00:30:50,470 --> 00:30:49,039

and then in the morning they have a

568

00:30:52,310 --> 00:30:50,480

shorter

569

00:30:53,830 --> 00:30:52,320

preparation phase as they get ready to

570

00:31:00,549 --> 00:30:53,840

kick off this first of the three

571

00:31:06,070 --> 00:31:04,310

there's sts-131 pilot jim dutton he as

572

00:31:07,190 --> 00:31:06,080

well as stephanie wilson will be

573

00:31:09,110 --> 00:31:07,200

piloting

574

00:31:11,750 --> 00:31:09,120

the station's robotic arm tomorrow

575

00:31:13,590 --> 00:31:11,760

during the spacewalk activities

576  
00:31:15,269 --> 00:31:13,600  
that arm is going to reach out and rick

577  
00:31:17,430 --> 00:31:15,279  
mastracchio and clay anderson will

578  
00:31:18,870 --> 00:31:17,440  
install the brand new ammonia tank

579  
00:31:20,710 --> 00:31:18,880  
assembly after it's been removed from

580  
00:31:21,509 --> 00:31:20,720  
discovery's payload babel put it on that

581  
00:31:23,269 --> 00:31:21,519  
arm

582  
00:31:24,870 --> 00:31:23,279  
and both the dutton and stephanie wilson

583  
00:31:26,549 --> 00:31:24,880  
will move it over toward an external

584  
00:31:28,149 --> 00:31:26,559  
stowage platform

585  
00:31:29,350 --> 00:31:28,159  
mr accio and anderson will make their

586  
00:31:31,750 --> 00:31:29,360  
way up there

587  
00:31:34,149 --> 00:31:31,760  
on the station structure

588  
00:31:36,310 --> 00:31:34,159

they will grab another grapple bar

589

00:31:38,870 --> 00:31:36,320

install it on that ammonia tank assembly

590

00:31:40,950 --> 00:31:38,880

while it is attached to the station's

591

00:31:42,710 --> 00:31:40,960

robotic arm

592

00:31:44,710 --> 00:31:42,720

and then they will temporarily stow that

593

00:31:46,789 --> 00:31:44,720

entire assembly

594

00:31:48,710 --> 00:31:46,799

on a cargo attachment point

595

00:31:50,149 --> 00:31:48,720

outside the station where it will stay

596

00:31:51,269 --> 00:31:50,159

until the second spacewalk of the

597

00:31:53,110 --> 00:31:51,279

mission

598

00:31:54,710 --> 00:31:53,120

and during that time that ammonia tank

599

00:32:02,470 --> 00:31:54,720

assembly will be moved to its permanent

600

00:32:07,509 --> 00:32:05,190

and houston airlock for the camp out

601

00:32:10,549 --> 00:32:07,519

we'd like to start closing the node 1

602

00:32:22,070 --> 00:32:10,559

starboard hatch here in about one minute