



1  
00:00:05,190 --> 00:00:02,389  
hi i'm kevin maclenny i'm jason

2  
00:00:07,190 --> 00:00:05,200  
velasquez i'm chris feng i'm roy lee i'm

3  
00:00:09,509 --> 00:00:07,200  
april foxworth i'm eddie escola i'm

4  
00:00:11,509 --> 00:00:09,519  
brandon menica i'm justin detmer we are

5  
00:00:13,669 --> 00:00:11,519  
the max flight control team on the final

6  
00:00:31,269 --> 00:00:13,679  
shuttle mission and you're watching nasa

7  
00:00:31,279 --> 00:00:46,549  
oh i'm a rocket man

8  
00:00:52,470 --> 00:00:49,430  
and i think it's gonna be a long long

9  
00:00:53,670 --> 00:00:52,480  
time to touch down brings me right i get

10  
00:01:07,990 --> 00:00:53,680  
to find

11  
00:01:12,550 --> 00:01:10,550  
good morning atlantis this is elton john

12  
00:01:14,550 --> 00:01:12,560  
we wish you much success on your mission

13  
00:01:17,190 --> 00:01:14,560

and a huge thank you to all the men and

14

00:01:19,910 --> 00:01:17,200

women at nasa who worked on the shuttle

15

00:01:22,550 --> 00:01:19,920

for the last three decades

16

00:01:24,870 --> 00:01:22,560

hey good morning houston elton john

17

00:01:27,590 --> 00:01:24,880

music legend wow that is absolutely

18

00:01:29,749 --> 00:01:27,600

fantastic we are absolutely honored that

19

00:01:31,429 --> 00:01:29,759

you took the time to uh

20

00:01:33,190 --> 00:01:31,439

join the crew this morning and wake us

21

00:01:35,270 --> 00:01:33,200

up we've invited the space station crew

22

00:01:36,550 --> 00:01:35,280

over here we were all over uh to listen

23

00:01:39,749 --> 00:01:36,560

to the occasion

24

00:01:41,109 --> 00:01:39,759

you know i think it just illustrates the

25

00:01:43,270 --> 00:01:41,119

uh both

26  
00:01:45,030 --> 00:01:43,280  
both legendary 30 years of shuttle

27  
00:01:46,550 --> 00:01:45,040  
flight and also the amount of people

28  
00:01:49,270 --> 00:01:46,560  
globally that have been affected by the

29  
00:01:51,830 --> 00:01:49,280  
shuttle program itself um thank you so

30  
00:01:53,270 --> 00:01:51,840  
much elton for taking again the time to

31  
00:01:56,230 --> 00:01:53,280  
join us this morning and it's great to

32  
00:01:59,670 --> 00:01:56,240  
be here great to be in space

33  
00:02:01,270 --> 00:01:59,680  
atlantis houston we agree with you 100

34  
00:02:05,270 --> 00:02:01,280  
and it's great to be with you working

35  
00:02:08,949 --> 00:02:07,190  
good day from the space shuttle flight

36  
00:02:10,150 --> 00:02:08,959  
control room at the johnson space center

37  
00:02:13,030 --> 00:02:10,160  
in houston

38  
00:02:14,790 --> 00:02:13,040

as we move into flight day six of

39

00:02:16,309 --> 00:02:14,800

atlantis flight to the international

40

00:02:18,630 --> 00:02:16,319

space station

41

00:02:21,030 --> 00:02:18,640

the spectacle of yesterday's uh six-hour

42

00:02:22,790 --> 00:02:21,040

31-minute spacewalk by mike fossum and

43

00:02:25,110 --> 00:02:22,800

ron garan to

44

00:02:26,390 --> 00:02:25,120

transfer a failed pump module

45

00:02:28,550 --> 00:02:26,400

from

46

00:02:30,390 --> 00:02:28,560

a stowage platform on the international

47

00:02:33,030 --> 00:02:30,400

space station back into the payload bay

48

00:02:35,110 --> 00:02:33,040

of atlantis for the trip back to earth

49

00:02:37,830 --> 00:02:35,120

and the transference of a

50

00:02:40,150 --> 00:02:37,840

robotic refueling mission payload from

51  
00:02:42,470 --> 00:02:40,160  
atlantis to the space station for future

52  
00:02:44,150 --> 00:02:42,480  
technology demonstrations along with

53  
00:02:45,990 --> 00:02:44,160  
other associated work that fossum and

54  
00:02:47,589 --> 00:02:46,000  
garen accomplished during a textbook

55  
00:02:50,070 --> 00:02:47,599  
spacewalk yesterday

56  
00:02:51,910 --> 00:02:50,080  
all of that has morphed into what

57  
00:02:54,470 --> 00:02:51,920  
essentially is a blue-collar day for the

58  
00:02:55,990 --> 00:02:54,480  
10 crew members on board as we move into

59  
00:02:57,670 --> 00:02:56,000  
the heart of the mission and what this

60  
00:03:00,070 --> 00:02:57,680  
flight is really all about and that is

61  
00:03:03,750 --> 00:03:00,080  
namely the transfer of almost a year's

62  
00:03:06,390 --> 00:03:03,760  
worth of supplies from atlantis

63  
00:03:09,589 --> 00:03:06,400

module the rafaello multipurpose

64

00:03:11,750 --> 00:03:09,599

logistics module that was attached

65

00:03:13,589 --> 00:03:11,760

on monday to the earth-facing port of

66

00:03:15,110 --> 00:03:13,599

the harmony module of the international

67

00:03:34,869 --> 00:03:15,120

space station through the use of the

68

00:03:34,879 --> 00:03:39,350

yeah we're still here

69

00:03:43,670 --> 00:03:41,190

hey great news i just wanted to throw

70

00:03:45,270 --> 00:03:43,680

out a shout out from space for our folks

71

00:03:46,550 --> 00:03:45,280

at wallops have supported us throughout

72

00:03:48,309 --> 00:03:46,560

the years you know you guys have given

73

00:03:50,789 --> 00:03:48,319

us a full s band

74

00:03:52,470 --> 00:03:50,799

uh uhf air to ground support it's just

75

00:03:54,630 --> 00:03:52,480

been uh tremendous you know i'm always

76  
00:03:56,309 --> 00:03:54,640  
amazed that uh in spite of what corner

77  
00:03:58,070 --> 00:03:56,319  
of the earth we're on we're able to you

78  
00:04:00,149 --> 00:03:58,080  
know talk to you folks and it's just

79  
00:04:01,509 --> 00:04:00,159  
been a real pleasure you're an integral

80  
00:04:03,350 --> 00:04:01,519  
part of every mission from the

81  
00:04:05,350 --> 00:04:03,360  
pre-launch testing and

82  
00:04:07,270 --> 00:04:05,360  
you uh you perform on orbit support for

83  
00:04:08,789 --> 00:04:07,280  
us you guys have tremendous can-do

84  
00:04:13,030 --> 00:04:08,799  
attitude just wanted to throw that out

85  
00:04:17,110 --> 00:04:14,710  
hey fergie thanks very much the folks

86  
00:04:18,710 --> 00:04:17,120  
out at wallops have been uh active and

87  
00:04:21,430 --> 00:04:18,720  
supportive of the space program ever

88  
00:04:23,510 --> 00:04:21,440

since the space test group before nasa

89

00:04:27,270 --> 00:04:23,520

johnson even existed so i think they

90

00:04:27,280 --> 00:04:33,430

absolutely stevie ray thanks a lot

91

00:04:37,990 --> 00:04:35,510

good afternoon atlantis you know the

92

00:04:40,950 --> 00:04:38,000

launch was a success the docking was

93

00:04:46,550 --> 00:04:40,960

just so emotional for everyone here how

94

00:04:46,560 --> 00:04:53,590

i got one word for you really busy

95

00:04:58,310 --> 00:04:54,710

we've

96

00:05:00,550 --> 00:04:58,320

great station hosts up here and we're

97

00:05:04,710 --> 00:05:00,560

just trying to get them all uh stocked

98

00:05:09,110 --> 00:05:06,950

when you're up there is it all work and

99

00:05:18,070 --> 00:05:09,120

no play or do you get some down time to

100

00:05:21,670 --> 00:05:20,070

well we haven't had much down time yet

101  
00:05:23,590 --> 00:05:21,680  
but we're working really hard to try and

102  
00:05:25,590 --> 00:05:23,600  
get ahead a bit so when we get our half

103  
00:05:27,350 --> 00:05:25,600  
day off we can actually take the day off

104  
00:05:29,430 --> 00:05:27,360  
and and look out the window the views

105  
00:05:31,590 --> 00:05:29,440  
from the cupola are truly spectacular

106  
00:05:32,950 --> 00:05:31,600  
and that's probably where you'll find us

107  
00:05:36,790 --> 00:05:32,960  
on flight day eight when we have our

108  
00:05:48,070 --> 00:05:39,270  
are there any mementos that you plan to

109  
00:05:55,029 --> 00:05:50,790  
uh well i think we we plan to bring more

110  
00:05:56,629 --> 00:05:55,039  
up and then we do to bring back uh

111  
00:05:57,909 --> 00:05:56,639  
you know most of the things that are up

112  
00:05:59,350 --> 00:05:57,919  
here on station we're bringing up for a

113  
00:06:01,110 --> 00:05:59,360

reason and they need them but we all

114

00:06:03,270 --> 00:06:01,120

bring some personal mementos on each

115

00:06:04,950 --> 00:06:03,280

shuttle flight and

116

00:06:06,230 --> 00:06:04,960

you know we have them as souvenirs and

117

00:06:11,510 --> 00:06:06,240

for folks who have really worked hard

118

00:06:16,390 --> 00:06:13,670

this next question is for pilot doug

119

00:06:19,350 --> 00:06:16,400

hurley we are here in the southern tier

120

00:06:21,990 --> 00:06:19,360

of new york you're a tioga county native

121

00:06:23,749 --> 00:06:22,000

graduate of a wego free academy what

122

00:06:28,390 --> 00:06:23,759

does this area in the southern tier of

123

00:06:31,590 --> 00:06:30,390

well it's it's my hometown it'll always

124

00:06:34,710 --> 00:06:31,600

be my home

125

00:06:36,629 --> 00:06:34,720

i get back there whenever i can and i

126

00:06:43,270 --> 00:06:36,639

just like to say hi to everybody back

127

00:06:47,189 --> 00:06:44,710

you know this crew you're really an

128

00:06:49,589 --> 00:06:47,199

inspiration to everywhere across the

129

00:06:51,350 --> 00:06:49,599

united states but especially kids what

130

00:07:00,309 --> 00:06:51,360

advice do you have for kids wanting to

131

00:07:04,150 --> 00:07:02,230

well i think our advice would be just uh

132

00:07:05,510 --> 00:07:04,160

work really hard in school especially in

133

00:07:07,670 --> 00:07:05,520

science and math because that's very

134

00:07:09,110 --> 00:07:07,680

very important in uh in this business

135

00:07:11,350 --> 00:07:09,120

and and then keep after your dreams you

136

00:07:13,189 --> 00:07:11,360

never know uh you know i dreamed of uh

137

00:07:14,390 --> 00:07:13,199

becoming an astronaut a long time ago i

138

00:07:16,710 --> 00:07:14,400

never really thought was possible but i

139

00:07:17,909 --> 00:07:16,720

kept after it and sure enough we were

140

00:07:18,950 --> 00:07:17,919

able to i think a lot of us have the

141

00:07:25,589 --> 00:07:18,960

stories it just takes a lot of

142

00:07:29,909 --> 00:07:27,670

so i've been listening over the last

143

00:07:32,150 --> 00:07:29,919

couple days and i really enjoy those

144

00:07:34,230 --> 00:07:32,160

morning songs with the wake up call

145

00:07:36,309 --> 00:07:34,240

where do these come from and how do you

146

00:07:39,350 --> 00:07:36,319

choose i mean you had chumbawamba you've

147

00:07:47,430 --> 00:07:39,360

had elton john you've had coldplay tell

148

00:07:51,670 --> 00:07:49,670

actually normally our families pick out

149

00:07:53,430 --> 00:07:51,680

uh during a normal mission our families

150

00:07:54,790 --> 00:07:53,440

will pick out our wake up music for us

151  
00:07:56,790 --> 00:07:54,800  
and some of it comes as a little bit of

152  
00:07:58,629 --> 00:07:56,800  
a surprise this mission is a little

153  
00:08:00,550 --> 00:07:58,639  
special and that nasa arranged for

154  
00:08:01,909 --> 00:08:00,560  
several surprise wake up songs from

155  
00:08:03,270 --> 00:08:01,919  
various different artists and we're

156  
00:08:05,189 --> 00:08:03,280  
still waiting to hear what the rest of

157  
00:08:06,390 --> 00:08:05,199  
them are but it's been really fun you

158  
00:08:07,830 --> 00:08:06,400  
know wake up every morning to a

159  
00:08:13,510 --> 00:08:07,840  
different song and it sort of sets the

160  
00:08:16,950 --> 00:08:15,350  
what do you plan to do when you get back

161  
00:08:18,550 --> 00:08:16,960  
i know it's a couple days away and

162  
00:08:20,790 --> 00:08:18,560  
you're focused on your mission there

163  
00:08:22,790 --> 00:08:20,800

right now but any plan for when you

164

00:08:30,710 --> 00:08:22,800

actually touch ground here at home

165

00:08:35,589 --> 00:08:32,790

well i think all of us will probably

166

00:08:36,949 --> 00:08:35,599

savor the moment for a few minutes maybe

167

00:08:38,550 --> 00:08:36,959

and then

168

00:08:40,389 --> 00:08:38,560

i think all of us are really looking

169

00:08:42,149 --> 00:08:40,399

forward to getting outside and kind of

170

00:08:44,389 --> 00:08:42,159

sharing it with all the the great folks

171

00:08:45,910 --> 00:08:44,399

at kennedy space center and then

172

00:08:48,070 --> 00:08:45,920

a few hours later getting to see our

173

00:08:53,350 --> 00:08:48,080

family and friends i think that's really

174

00:08:58,070 --> 00:08:55,750

mr hurley this question is again for you

175

00:08:59,829 --> 00:08:58,080

you're the last pilot to shuttle these

176

00:09:05,110 --> 00:08:59,839

missions what are your plans where do

177

00:09:10,389 --> 00:09:06,870

well uh

178

00:09:12,070 --> 00:09:10,399

my first priority is obviously to be uh

179

00:09:14,070 --> 00:09:12,080

to com to complete this mission

180

00:09:16,389 --> 00:09:14,080

successfully and uh help out everybody

181

00:09:18,310 --> 00:09:16,399

here on the iss and my crewmates and

182

00:09:20,470 --> 00:09:18,320

then once we get back on the ground uh

183

00:09:23,030 --> 00:09:20,480

spend a little time with family

184

00:09:25,750 --> 00:09:23,040

and friends and then from there you know

185

00:09:27,509 --> 00:09:25,760

we'll be working on the next vehicle

186

00:09:29,750 --> 00:09:27,519

for nasa we're going to help out our

187

00:09:31,829 --> 00:09:29,760

commercial partners uh so there's a lot

188

00:09:37,590 --> 00:09:31,839

to look forward to uh there's a bright

189

00:09:41,590 --> 00:09:39,509

so far this final mission has been

190

00:09:44,870 --> 00:09:41,600

nothing but a success do you see the

191

00:09:48,389 --> 00:09:44,880

last 30 years of nasa being just that a

192

00:09:52,710 --> 00:09:50,790

yeah um i'll tell you it's a it's a

193

00:09:55,190 --> 00:09:52,720

fantastic world up here and if i could

194

00:09:57,509 --> 00:09:55,200

convey one uh one message to you it

195

00:09:59,190 --> 00:09:57,519

would be uh when you stand poised about

196

00:10:00,870 --> 00:09:59,200

600 feet underneath the international

197

00:10:03,509 --> 00:10:00,880

space station and look up and see that

198

00:10:04,389 --> 00:10:03,519

grand thing pass over you it is really

199

00:10:06,470 --> 00:10:04,399

spectacular

200

00:10:07,990 --> 00:10:06,480

uh you know nasa's past 30 years of

201  
00:10:09,590 --> 00:10:08,000  
space shuttle you know when it's all

202  
00:10:11,750 --> 00:10:09,600  
done we have the space station to show

203  
00:10:15,910 --> 00:10:11,760  
for it we have tremendous observatories

204  
00:10:19,509 --> 00:10:17,750  
um first off i want to know any this is

205  
00:10:21,430 --> 00:10:19,519  
for everyone you know the four of you

206  
00:10:23,190 --> 00:10:21,440  
how does it feel to be part of history

207  
00:10:25,829 --> 00:10:23,200  
you know being one of the few people to

208  
00:10:32,069 --> 00:10:25,839  
venture off um into a space shuttle you

209  
00:10:35,670 --> 00:10:33,910  
you know we kind of we we kind of don't

210  
00:10:37,990 --> 00:10:35,680  
think about it like that this is sort of

211  
00:10:39,910 --> 00:10:38,000  
our normal job and and occasionally you

212  
00:10:41,829 --> 00:10:39,920  
just have to stop and and i remember

213  
00:10:43,350 --> 00:10:41,839

when i lived here on the space station i

214

00:10:44,790 --> 00:10:43,360

got so much into the work and getting

215

00:10:46,230 --> 00:10:44,800

things done every now and then to stop

216

00:10:48,550 --> 00:10:46,240

and think about where i was it's like oh

217

00:10:50,710 --> 00:10:48,560

my gosh i'm floating in a big huge

218

00:10:52,710 --> 00:10:50,720

building you know 200 miles above the

219

00:10:54,470 --> 00:10:52,720

earth and this is really special and

220

00:10:56,150 --> 00:10:54,480

and so you know when you're doing your

221

00:10:58,389 --> 00:10:56,160

day-to-day job you can't really think

222

00:10:59,910 --> 00:10:58,399

about it in those kinds of terms but all

223

00:11:02,069 --> 00:10:59,920

of us are honored to be a part of this

224

00:11:03,110 --> 00:11:02,079

mission and we're doing our best to

225

00:11:06,949 --> 00:11:03,120

leave the station in a good

226

00:11:10,790 --> 00:11:09,110

and do you know what's what's next for

227

00:11:15,509 --> 00:11:10,800

nasa at all will there be anything

228

00:11:20,310 --> 00:11:18,150

uh yes we're uh uh very hard at work on

229

00:11:22,389 --> 00:11:20,320

that right now the uh nasa is really

230

00:11:24,069 --> 00:11:22,399

looking forward trying to go to the next

231

00:11:25,190 --> 00:11:24,079

level we we're right now the space

232

00:11:27,269 --> 00:11:25,200

shuttle comes here the international

233

00:11:29,030 --> 00:11:27,279

space station will continue to

234

00:11:30,550 --> 00:11:29,040

to man the space station continue to do

235

00:11:33,670 --> 00:11:30,560

research now that the space station is

236

00:11:35,110 --> 00:11:33,680

built and beyond that our access to

237

00:11:36,710 --> 00:11:35,120

space we're going to try to get a

238

00:11:38,389 --> 00:11:36,720

vehicle that can go beyond low earth

239

00:11:40,470 --> 00:11:38,399

orbit and and we're going to turn over

240

00:11:42,310 --> 00:11:40,480

some of the the flights to the space

241

00:11:43,430 --> 00:11:42,320

station to taxi crew members back and

242

00:11:46,230 --> 00:11:43,440

forth to some of the commercial

243

00:11:47,910 --> 00:11:46,240

providers so um we're kind of trying to

244

00:11:49,509 --> 00:11:47,920

uh transition to a more commercial

245

00:11:51,190 --> 00:11:49,519

approach for the low earth orbit but for

246

00:11:53,190 --> 00:11:51,200

the real true exploration beyond low

247

00:11:56,230 --> 00:11:53,200

earth we're trying to develop our own

248

00:11:58,069 --> 00:11:56,240

vehicle to do that

249

00:12:01,430 --> 00:11:58,079

oh wow and um

250

00:12:03,590 --> 00:12:01,440

this question is actually for doug um

251

00:12:04,949 --> 00:12:03,600

this is from corey um out here in

252

00:12:11,269 --> 00:12:04,959

binghamton and he wants to know what

253

00:12:14,550 --> 00:12:13,269

well i think it was uh several things it

254

00:12:16,550 --> 00:12:14,560

was you know

255

00:12:18,389 --> 00:12:16,560

college professors that got you

256

00:12:20,710 --> 00:12:18,399

interested in a particular subject it

257

00:12:23,269 --> 00:12:20,720

was uh coaches that got you interested

258

00:12:25,350 --> 00:12:23,279

in being part of a team it was uh

259

00:12:27,509 --> 00:12:25,360

you know flying fighters and then being

260

00:12:28,870 --> 00:12:27,519

able to be a test pilot uh you know so

261

00:12:30,870 --> 00:12:28,880

it was a number of different things that

262

00:12:33,430 --> 00:12:30,880

got me interested in it was also a love

263

00:12:35,269 --> 00:12:33,440

of uh airplanes so a lot of different

264

00:12:38,389 --> 00:12:35,279

things led me uh led me up here to the

265

00:12:39,590 --> 00:12:38,399

space station

266

00:12:41,190 --> 00:12:39,600

and this question is for anyone who

267

00:12:43,190 --> 00:12:41,200

wants to answer this is from eli he's a

268

00:12:45,269 --> 00:12:43,200

little boy um out here in vestal and he

269

00:12:47,190 --> 00:12:45,279

wants to know where you guys sleep do

270

00:12:54,710 --> 00:12:47,200

you sleep in bunks on the floor or do

271

00:13:00,069 --> 00:12:58,310

uh well we actually sleep in uh we just

272

00:13:02,310 --> 00:13:00,079

sleep floating in space we have sleeping

273

00:13:05,110 --> 00:13:02,320

bags that will unroll and we'll usually

274

00:13:06,470 --> 00:13:05,120

stretch along a wall or on the ceiling

275

00:13:07,670 --> 00:13:06,480

perhaps but

276

00:13:09,590 --> 00:13:07,680

we'll just stretch in between two

277

00:13:10,790 --> 00:13:09,600

locations pull them taut and you climb

278

00:13:12,629 --> 00:13:10,800

into your sleeping bag and sleep like

279

00:13:15,990 --> 00:13:12,639

that it's very comfortable it's a great

280

00:13:18,629 --> 00:13:17,110

and uh

281

00:13:21,269 --> 00:13:18,639

a little girl named mira wants to know

282

00:13:27,990 --> 00:13:21,279

if training is hard to be an astronaut

283

00:13:31,829 --> 00:13:29,910

you know training is is not really hard

284

00:13:33,670 --> 00:13:31,839

it's a lot like being in school you have

285

00:13:35,110 --> 00:13:33,680

a lot of different things to study and

286

00:13:36,870 --> 00:13:35,120

then you know when we go on a mission

287

00:13:38,389 --> 00:13:36,880

it's kind of like our open book test

288

00:13:39,590 --> 00:13:38,399

because we have to demonstrate that we

289

00:13:41,590 --> 00:13:39,600

learned everything that we're supposed

290

00:13:42,870 --> 00:13:41,600

to learn but it's a lot of fun too

291

00:13:45,030 --> 00:13:42,880

because you get to learn different

292

00:13:46,710 --> 00:13:45,040

things every day just like you change

293

00:13:48,470 --> 00:13:46,720

different subjects in your classes at

294

00:13:50,069 --> 00:13:48,480

school we change subjects all the time

295

00:13:53,590 --> 00:13:50,079

so we're learning a vast array of new

296

00:13:57,030 --> 00:13:55,350

and samantha wants to know what kind of

297

00:13:59,509 --> 00:13:57,040

food do you guys eat up there i know

298

00:14:01,990 --> 00:13:59,519

that you'll be having a big feast um you

299

00:14:03,269 --> 00:14:02,000

know with the public nasa's planning so

300

00:14:05,430 --> 00:14:03,279

i guess tell me what that's going to be

301  
00:14:09,990 --> 00:14:05,440  
like and on a regular basis what kind of

302  
00:14:13,189 --> 00:14:11,110  
well we have a lot of different kinds of

303  
00:14:15,269 --> 00:14:13,199  
food we can eat we can

304  
00:14:16,629 --> 00:14:15,279  
we can have like normal stuff that's

305  
00:14:19,030 --> 00:14:16,639  
kind of like the army would eat just

306  
00:14:20,629 --> 00:14:19,040  
kind of uh heat it up and eat it like

307  
00:14:21,910 --> 00:14:20,639  
today i had tuna noodle casserole we

308  
00:14:23,670 --> 00:14:21,920  
have other stuff that's dehydrated kind

309  
00:14:25,509 --> 00:14:23,680  
of like camping food we have some shrimp

310  
00:14:27,430 --> 00:14:25,519  
cocktail that's pretty popular around

311  
00:14:28,870 --> 00:14:27,440  
here that we like to eat too so

312  
00:14:30,710 --> 00:14:28,880  
we have a lot of different variety and

313  
00:14:31,590 --> 00:14:30,720

the food is good it's come a long ways

314

00:14:32,870 --> 00:14:31,600

and

315

00:14:35,829 --> 00:14:32,880

it's fun to taste different types of

316

00:14:38,150 --> 00:14:35,839

things we have to eat here

317

00:14:39,509 --> 00:14:38,160

and what's the first thing

318

00:14:46,310 --> 00:14:39,519

you guys plan to do when you come back

319

00:14:49,590 --> 00:14:48,069

well uh

320

00:14:51,350 --> 00:14:49,600

i think we all wouldn't mind taking a

321

00:14:53,110 --> 00:14:51,360

shower uh

322

00:14:54,949 --> 00:14:53,120

once we get back to crew quarters there

323

00:14:57,030 --> 00:14:54,959

at kennedy space center but uh you know

324

00:14:58,389 --> 00:14:57,040

our biggest thing is just to to make

325

00:15:00,230 --> 00:14:58,399

sure that we get to share it with all

326

00:15:02,949 --> 00:15:00,240

the great folks down at kennedy space

327

00:15:04,470 --> 00:15:02,959

center and thank them for their 30 years

328

00:15:06,310 --> 00:15:04,480

of work on this

329

00:15:09,990 --> 00:15:06,320

awesome space shuttle vehicle that we

330

00:15:14,230 --> 00:15:11,670

commander ferguson if i can start with

331

00:15:15,990 --> 00:15:14,240

you uh i guess uh today would be oh the

332

00:15:19,030 --> 00:15:16,000

glory of being an astronaut you get to

333

00:15:21,110 --> 00:15:19,040

move stuff into the uh international

334

00:15:22,710 --> 00:15:21,120

space station and drag the garbage out

335

00:15:28,150 --> 00:15:22,720

uh not the most glorious day but the

336

00:15:31,350 --> 00:15:30,150

well i'll tell you you pretty much hit

337

00:15:33,430 --> 00:15:31,360

the nail on the head there that is

338

00:15:35,110 --> 00:15:33,440

exactly what we're doing uh we have we

339

00:15:36,870 --> 00:15:35,120

have a lot of a lot of stuff we need to

340

00:15:39,030 --> 00:15:36,880

supply this international space station

341

00:15:40,470 --> 00:15:39,040

with to sustain them for about a year so

342

00:15:43,269 --> 00:15:40,480

a lot of it's food a lot of it's

343

00:15:44,710 --> 00:15:43,279

clothing a lot of it is spare parts and

344

00:15:46,389 --> 00:15:44,720

hauling out in the in the other

345

00:15:48,230 --> 00:15:46,399

direction i wouldn't call it garbage

346

00:15:49,509 --> 00:15:48,240

it's mostly broken things it's things

347

00:15:50,790 --> 00:15:49,519

that need to go back to the ground they

348

00:15:52,389 --> 00:15:50,800

want to take a look at it they want to

349

00:15:56,310 --> 00:15:52,399

know why it failed so they can make make

350

00:15:59,350 --> 00:15:57,990

all right specialist magnus i'd like to

351

00:16:02,310 --> 00:15:59,360

ask you a question

352

00:16:05,189 --> 00:16:02,320

how are you and how are the others from

353

00:16:09,110 --> 00:16:05,199

your observation uh reacting

354

00:16:11,269 --> 00:16:09,120

to uh this being the last shuttle

355

00:16:12,629 --> 00:16:11,279

mission what are the emotions as you

356

00:16:16,629 --> 00:16:12,639

look about knowing that it's not going

357

00:16:19,430 --> 00:16:17,990

well you know that's something we've

358

00:16:21,269 --> 00:16:19,440

been dealing with the whole training

359

00:16:22,870 --> 00:16:21,279

flow we've we've had a lot of last

360

00:16:24,550 --> 00:16:22,880

events you know last training event in

361

00:16:25,910 --> 00:16:24,560

the motion based simulator the last

362

00:16:28,310 --> 00:16:25,920

training event in building nine where

363

00:16:29,990 --> 00:16:28,320

our full-scale mockups are the last

364

00:16:32,150 --> 00:16:30,000

interaction with some of the great

365

00:16:34,230 --> 00:16:32,160

people at kennedy space center and as

366

00:16:34,870 --> 00:16:34,240

we've gotten closer and closer to launch

367

00:16:39,509 --> 00:16:34,880

it

368

00:16:41,829 --> 00:16:39,519

think

369

00:16:43,110 --> 00:16:41,839

uh after we get back down to the ground

370

00:16:44,389 --> 00:16:43,120

after landing it's going to hit us

371

00:16:46,230 --> 00:16:44,399

really hard and i think we're all going

372

00:16:48,230 --> 00:16:46,240

to have a really hard time leaving the

373

00:16:49,990 --> 00:16:48,240

shuttle and doing the walk around and

374

00:16:52,069 --> 00:16:50,000

greeting the people down there and and

375

00:16:54,150 --> 00:16:52,079

just closing out the program that way i

376

00:16:55,430 --> 00:16:54,160

mean we'll be really excited that the

377

00:16:57,670 --> 00:16:55,440

hopefully the mission went well but

378

00:17:01,590 --> 00:16:57,680

we'll be very sad too because it was a

379

00:17:07,029 --> 00:17:03,829

a pilot hurley a question for you if i

380

00:17:09,510 --> 00:17:07,039

could uh america is watching this space

381

00:17:10,710 --> 00:17:09,520

shuttle mission more intensely than

382

00:17:13,029 --> 00:17:10,720

any in

383

00:17:16,630 --> 00:17:13,039

years many years

384

00:17:18,789 --> 00:17:16,640

is the historic aspect of this mission

385

00:17:20,470 --> 00:17:18,799

on your minds how do you go about your

386

00:17:24,870 --> 00:17:20,480

day with that

387

00:17:29,029 --> 00:17:27,189

uh to be real honest with you i don't

388

00:17:29,990 --> 00:17:29,039

think it is we

389

00:17:31,669 --> 00:17:30,000

you know

390

00:17:33,830 --> 00:17:31,679

i think most of us our whole lives have

391

00:17:36,230 --> 00:17:33,840

been very focused and goal-oriented and

392

00:17:37,750 --> 00:17:36,240

uh this is just one more of those things

393

00:17:40,230 --> 00:17:37,760

that we're doing you know we're so

394

00:17:41,590 --> 00:17:40,240

focused on the task you're doing

395

00:17:44,230 --> 00:17:41,600

that particular minute or that

396

00:17:46,950 --> 00:17:44,240

particular hour and then you know task

397

00:17:49,110 --> 00:17:46,960

after task and uh you know eva that we

398

00:17:50,230 --> 00:17:49,120

did yesterday and transfer that we're

399

00:17:52,630 --> 00:17:50,240

doing today

400

00:17:55,029 --> 00:17:52,640

you know it keeps us so focused that we

401

00:17:57,669 --> 00:17:55,039

we tend not to i think look at the big

402

00:17:59,510 --> 00:17:57,679

picture as much and i and i think we're

403

00:18:01,270 --> 00:17:59,520

kind of all telling ourselves that you

404

00:18:02,710 --> 00:18:01,280

know we'll have time to kind of reflect

405

00:18:05,110 --> 00:18:02,720

on this uh

406

00:18:06,549 --> 00:18:05,120

this whole event this whole happening

407

00:18:08,630 --> 00:18:06,559

that we that we've gone through for the

408

00:18:10,070 --> 00:18:08,640

last nine months and and hopefully be

409

00:18:13,270 --> 00:18:10,080

able to share it and articulate it with

410

00:18:17,990 --> 00:18:15,110

and finally for specialist walheim if i

411

00:18:20,630 --> 00:18:18,000

could uh the local boy who made so good

412

00:18:23,430 --> 00:18:20,640

uh i just wanted to ask you uh with that

413

00:18:26,230 --> 00:18:23,440

last spacewalk yesterday you're you're

414

00:18:28,870 --> 00:18:26,240

someone who has done several of those uh

415

00:18:31,270 --> 00:18:28,880

as that was going on last one with the

416

00:18:35,110 --> 00:18:31,280

shuttle uh your thoughts and your

417

00:18:38,230 --> 00:18:36,950

well it was a it was a

418

00:18:40,150 --> 00:18:38,240

wonderful sight it was a it was a

419

00:18:41,430 --> 00:18:40,160

pleasure to be a part of it and it was

420

00:18:43,350 --> 00:18:41,440

kind of unique for me because i've been

421

00:18:44,870 --> 00:18:43,360

outside on spacewalks for five times but

422

00:18:46,710 --> 00:18:44,880

it's been about nine years since i've

423

00:18:48,390 --> 00:18:46,720

been inside while the spacewalk is going

424

00:18:50,070 --> 00:18:48,400

on so when those guys come right up to

425

00:18:52,870 --> 00:18:50,080

the window in this spacesuit it's just a

426

00:18:54,789 --> 00:18:52,880

real sci-fi type of look and it was it

427

00:18:55,909 --> 00:18:54,799

was very interesting and it was a it was

428

00:18:57,750 --> 00:18:55,919

a lot of hard work and i was really

429

00:18:58,950 --> 00:18:57,760

proud of the uh the spacewalkers ron

430

00:19:00,549 --> 00:18:58,960

guerin and mike foster they did an

431

00:19:04,870 --> 00:19:00,559

awesome job got all their tasks done and

432

00:19:09,750 --> 00:19:07,190

um and another one for you a specialist

433

00:19:12,870 --> 00:19:09,760

walheim uh now that there are going to

434

00:19:15,190 --> 00:19:12,880

be no more shuttles to fly uh what

435

00:19:16,870 --> 00:19:15,200

becomes of someone who was uh known for

436

00:19:18,310 --> 00:19:16,880

his uh flying on the shuttles what are

437

00:19:21,510 --> 00:19:18,320

you going to be doing next what's up for

438

00:19:24,789 --> 00:19:22,870

well for me i just want to continue to

439

00:19:26,549 --> 00:19:24,799

be involved in in the program at nasa

440

00:19:27,909 --> 00:19:26,559

we've got uh the continuing operations

441

00:19:30,070 --> 00:19:27,919

here on the space station the space

442

00:19:31,510 --> 00:19:30,080

station is now complete uh we can end

443

00:19:33,430 --> 00:19:31,520

the the assembly phase now we're

444

00:19:34,710 --> 00:19:33,440

entering the uh the utilization phase

445

00:19:36,070 --> 00:19:34,720

where we can do that groundbreaking

446

00:19:38,470 --> 00:19:36,080

research to find

447

00:19:40,310 --> 00:19:38,480

new ways to treat diseases find out new

448

00:19:42,150 --> 00:19:40,320

ways to help us to be able to stay in

449

00:19:43,750 --> 00:19:42,160

space longer our human body and then

450

00:19:45,110 --> 00:19:43,760

we're also going to try to go beyond low

451

00:19:47,270 --> 00:19:45,120

earth orbit so i think that's really

452

00:19:48,230 --> 00:19:47,280

exciting building a new system to to get

453

00:19:48,870 --> 00:19:48,240

past

454

00:19:50,549 --> 00:19:48,880

the

455

00:19:52,789 --> 00:19:50,559

space station's altitude up to uh you

456

00:19:54,630 --> 00:19:52,799

know the the altitude of the moon or to

457

00:19:55,909 --> 00:19:54,640

uh asteroid or maybe to mars one day and

458

00:19:57,190 --> 00:19:55,919

so we've got to build those systems and

459

00:20:00,150 --> 00:19:57,200

i want to be involved in helping to

460

00:20:04,310 --> 00:20:02,230

well we only have a maybe 20 seconds for

461

00:20:05,909 --> 00:20:04,320

your answer and i i hope that's fair but

462

00:20:08,789 --> 00:20:05,919

i was wondering if you could say to

463

00:20:10,310 --> 00:20:08,799

young people who still think about going

464

00:20:12,390 --> 00:20:10,320

into space we're talking about mars

465

00:20:14,310 --> 00:20:12,400

we're talking about meteors what is it

466

00:20:16,950 --> 00:20:14,320

what gives you the most excitement when

467

00:20:22,149 --> 00:20:16,960

you are up there or going up there where

468

00:20:25,590 --> 00:20:23,510

well i would have to give that two

469

00:20:27,510 --> 00:20:25,600

things number one is launch anytime you

470

00:20:28,950 --> 00:20:27,520

get slung off the planet from zero to

471

00:20:30,549 --> 00:20:28,960

seventeen thousand miles an hour and

472

00:20:32,390 --> 00:20:30,559

eight and a half minutes you can't help

473

00:20:34,310 --> 00:20:32,400

but get an adrenaline rush and that is

474

00:20:35,590 --> 00:20:34,320

absolutely spectacular and then when you

475

00:20:38,549 --> 00:20:35,600

get up here just looking back on the

476

00:20:40,310 --> 00:20:38,559

earth 220 miles down and a couple days

477

00:20:42,149 --> 00:20:40,320

ago i had a chance to see california

478

00:20:43,669 --> 00:20:42,159

from space again and i could see the bay

479

00:20:45,830 --> 00:20:43,679

area it was a little bit foggy but i

480

00:20:48,070 --> 00:20:45,840

could see the outline of it and to think

481

00:20:49,430 --> 00:20:48,080

i was a kid down there many years ago

482

00:20:51,190 --> 00:20:49,440

looking up at the airplanes and dreaming

483

00:20:52,470 --> 00:20:51,200

of flying one day and here i am on the

484

00:20:54,470 --> 00:20:52,480

international space station cruising

485

00:20:56,230 --> 00:20:54,480

along at mach 25 it's just amazing and

486

00:20:57,669 --> 00:20:56,240

if i can do it anybody can do it it's it

487

00:20:59,190 --> 00:20:57,679

really is dreams do come true with a

488

00:21:01,990 --> 00:20:59,200

little bit of persistence and some hard

489

00:21:03,669 --> 00:21:02,000

work

490

00:21:05,270 --> 00:21:03,679

all right to all of you thank you so

491

00:21:06,390 --> 00:21:05,280

much america's watching and uh look

492

00:21:09,830 --> 00:21:06,400

forward to seeing you back here next

493

00:21:13,990 --> 00:21:11,990

yeah we we appreciate that and i just

494

00:21:16,390 --> 00:21:14,000

wanted to say hi to all my uh my friends

495

00:21:20,230 --> 00:21:16,400

and uh and and folks i know and my

496

00:21:20,240 --> 00:21:25,270

fantastic thanks a lot

497

00:21:35,750 --> 00:21:27,750

atlantis iss this is houston acr that

498

00:21:39,510 --> 00:21:37,110

but the crew is busy on board today

499

00:21:41,430 --> 00:21:39,520

along with the expedition 28 crew

500

00:21:43,029 --> 00:21:41,440

doing quite a bit of work of transfer

501  
00:21:45,029 --> 00:21:43,039  
work inside

502  
00:21:46,470 --> 00:21:45,039  
ron garan is continuing to work on the

503  
00:21:49,590 --> 00:21:46,480  
waste and hygiene compartment which is

504  
00:21:51,909 --> 00:21:49,600  
the station's toilet

505  
00:21:53,590 --> 00:21:51,919  
he is swapping out some air hoses and

506  
00:21:57,110 --> 00:21:53,600  
some other components

507  
00:21:58,549 --> 00:21:57,120  
of that particular device

508  
00:22:00,230 --> 00:21:58,559  
if you've been following the mission

509  
00:22:02,470 --> 00:22:00,240  
here on nasa television you know that

510  
00:22:04,549 --> 00:22:02,480  
the crew reported a sour smell coming

511  
00:22:06,789 --> 00:22:04,559  
from the area of this

512  
00:22:08,789 --> 00:22:06,799  
compartment a couple of days ago earlier

513  
00:22:10,310 --> 00:22:08,799

this week

514

00:22:11,909 --> 00:22:10,320

this work that garen is doing today is

515

00:22:13,909 --> 00:22:11,919

not directly related to that because the

516

00:22:16,549 --> 00:22:13,919

smell has basically gone away from what

517

00:22:17,830 --> 00:22:16,559

the crew has reported

518

00:22:20,310 --> 00:22:17,840

well what the crew did say is that

519

00:22:22,310 --> 00:22:20,320

they've noticed uh the motor that runs

520

00:22:24,390 --> 00:22:22,320

this entire device has been putting off

521

00:22:25,669 --> 00:22:24,400

sort of a louder noise than what they

522

00:22:27,430 --> 00:22:25,679

are used to

523

00:22:28,549 --> 00:22:27,440

and they've also seen some decreased

524

00:22:31,190 --> 00:22:28,559

suction

525

00:22:33,510 --> 00:22:31,200

so some of these parts of this whc have

526

00:22:34,950 --> 00:22:33,520

already reached the end of their

527

00:22:36,710 --> 00:22:34,960

life on board the station so they're

528

00:22:39,190 --> 00:22:36,720

going to go ahead and have garen swap

529

00:22:41,110 --> 00:22:39,200

out these parts today and to see if this

530

00:22:42,630 --> 00:22:41,120

takes care of the noise and the suction

531

00:22:44,310 --> 00:22:42,640

issue that he and the rest of the crew

532

00:22:45,830 --> 00:22:44,320

have reported

533

00:22:47,029 --> 00:22:45,840

but the sour smell issue that they had

534

00:22:48,549 --> 00:22:47,039

reported a couple of days ago has

535

00:22:50,630 --> 00:22:48,559

basically gone away for now so they will

536

00:22:53,669 --> 00:22:50,640

continue to monitor that and see if

537

00:22:55,990 --> 00:22:53,679

that problem has solved itself

538

00:22:57,750 --> 00:22:56,000

so we'll follow along as garen continues

539

00:22:59,669 --> 00:22:57,760

to do this maintenance on

540

00:23:01,270 --> 00:22:59,679

this part of the station

541

00:23:03,190 --> 00:23:01,280

we also reported to you that the crew is

542

00:23:05,350 --> 00:23:03,200

slightly ahead of transfer work in the

543

00:23:06,789 --> 00:23:05,360

multi-purpose logistics module

544

00:23:08,470 --> 00:23:06,799

moving cargo out of that they're a

545

00:23:09,909 --> 00:23:08,480

little bit behind on the mid deck

546

00:23:11,190 --> 00:23:09,919

transfers but of course that'll all

547

00:23:13,029 --> 00:23:11,200

change tonight

548

00:23:14,070 --> 00:23:13,039

whenever sandy magnus calls down for her

549

00:23:15,750 --> 00:23:14,080

daily

550

00:23:17,909 --> 00:23:15,760

meeting with the transfer team here in

551  
00:23:19,990 --> 00:23:17,919  
houston

552  
00:23:21,909 --> 00:23:20,000  
this mplm that is currently mounted with

553  
00:23:22,750 --> 00:23:21,919  
the station as we've mentioned before

554  
00:23:25,430 --> 00:23:22,760  
has

555  
00:23:27,270 --> 00:23:25,440  
9403 pounds of cargo inside of it that's

556  
00:23:28,870 --> 00:23:27,280  
being moved across the hatchways into

557  
00:23:30,789 --> 00:23:28,880  
the station of course

558  
00:23:32,950 --> 00:23:30,799  
it's not so much moving yet as it is uh

559  
00:23:35,430 --> 00:23:32,960  
finding locations for all of this but

560  
00:23:36,870 --> 00:23:35,440  
the team is working very closely

561  
00:23:37,909 --> 00:23:36,880  
with the crew as they move these items

562  
00:23:39,350 --> 00:23:37,919  
across

563  
00:23:40,990 --> 00:23:39,360

and once they get all that unloaded

564

00:23:43,750 --> 00:23:41,000

they're going to be moving

565

00:23:47,590 --> 00:23:43,760

566 pounds back across

566

00:23:49,669 --> 00:23:47,600

from the station uh to the mplm

567

00:23:52,549 --> 00:23:49,679

and all that's going to come home aboard

568

00:23:55,190 --> 00:23:52,559

atlantis at the end of this mission

569

00:23:58,149 --> 00:23:55,200

heat exchanger from the fgb

570

00:23:59,510 --> 00:23:58,159

kind of slides right in here

571

00:24:02,549 --> 00:23:59,520

on top

572

00:24:05,190 --> 00:24:02,559

there's room i have

573

00:24:08,390 --> 00:24:05,200

rings to put some bungees down of course

574

00:24:08,400 --> 00:24:11,590

all within

575

00:24:16,549 --> 00:24:14,390

the inner hatch or inner ring area when

576

00:24:18,549 --> 00:24:16,559

they're restrained

577

00:24:24,070 --> 00:24:18,559

so they'll be a good clearance between

578

00:24:27,350 --> 00:24:25,830

and by the way the disc cover was not

579

00:24:32,870 --> 00:24:27,360

installed

580

00:24:37,269 --> 00:24:34,710

okay mike you had the disc cover not

581

00:24:39,750 --> 00:24:37,279

installed was an expected config

582

00:24:41,510 --> 00:24:39,760

and cio is very happy with the video

583

00:24:42,630 --> 00:24:41,520

you're providing us you do not need the

584

00:24:44,470 --> 00:24:42,640

stills

585

00:24:49,029 --> 00:24:44,480

and uh i was commenting you probably

586

00:24:51,750 --> 00:24:49,039

have a future in closet organization

587

00:24:53,510 --> 00:24:51,760

hey that's the great thing about the

588

00:24:54,549 --> 00:24:53,520

space flight you know one day you're

589

00:24:56,310 --> 00:24:54,559

doing them

590

00:24:59,269 --> 00:24:56,320

the most outrageous thing humans have