



1
00:00:38,310 --> 00:00:02,149
hi i'm steve bowen from the crew of

2
00:00:38,320 --> 00:00:50,709
oh

3
00:00:50,719 --> 00:01:10,310
to survive

4
00:01:10,320 --> 00:01:16,950
to it

5
00:01:24,710 --> 00:01:18,950
good morning atlantis and a special good

6
00:01:24,720 --> 00:01:28,870
good morning houston it's uh

7
00:01:32,069 --> 00:01:30,630
kind of ironic but i guess my work is

8
00:01:34,310 --> 00:01:32,079
starting i've had my fun for the past

9
00:01:36,310 --> 00:01:34,320
few days since i've been up here and uh

10
00:01:38,950 --> 00:01:36,320
now i got to do some real work and i

11
00:01:55,190 --> 00:01:38,960
want to thank my family for uh picking

12
00:01:59,990 --> 00:01:57,429
you're looking from a camera across the

13
00:02:02,230 --> 00:02:00,000

station's truss segment

14

00:02:03,910 --> 00:02:02,240

at portions of the u.s segment of the

15

00:02:07,030 --> 00:02:03,920

international space station and the

16

00:02:09,669 --> 00:02:07,040

russian segment appropriately in the

17

00:02:14,150 --> 00:02:09,679

center the newest module of the

18

00:02:29,670 --> 00:02:14,949

the

19

00:02:32,710 --> 00:02:29,680

it will serve as a

20

00:02:33,990 --> 00:02:32,720

docking port it provides some additional

21

00:02:36,229 --> 00:02:34,000

extension

22

00:02:38,229 --> 00:02:36,239

as a docking port for future russian

23

00:02:40,869 --> 00:02:38,239

visiting vehicles such as the soyuz

24

00:02:42,949 --> 00:02:40,879

spacecraft and the

25

00:02:45,750 --> 00:02:42,959

and the progress resupply vehicle a

26

00:02:48,550 --> 00:02:45,760

progress you saw at the far end

27

00:02:51,350 --> 00:02:48,560

docked to the station as well

28

00:02:53,110 --> 00:02:51,360

this the remaining portions of the u.s

29

00:02:55,030 --> 00:02:53,120

segment and the other international

30

00:02:57,270 --> 00:02:55,040

partners of the international space

31

00:02:59,110 --> 00:02:57,280

station in the far left

32

00:03:01,350 --> 00:02:59,120

extending toward the cameras the

33

00:03:02,630 --> 00:03:01,360

columbus module of the european space

34

00:03:05,750 --> 00:03:02,640

agency

35

00:03:08,309 --> 00:03:05,760

talked to the harmony

36

00:03:11,430 --> 00:03:08,319

module harmony is a connecting node that

37

00:03:14,229 --> 00:03:11,440

provides six additional docking ports

38

00:03:15,509 --> 00:03:14,239

it is mounted to the us laboratory

39

00:03:19,670 --> 00:03:15,519

destiny

40

00:03:21,430 --> 00:03:19,680

on the far side of of harmony

41

00:03:24,630 --> 00:03:21,440

portions of which you can see is the

42

00:03:26,309 --> 00:03:24,640

japanese experiment module the largest

43

00:03:27,589 --> 00:03:26,319

science laboratory of the international

44

00:03:29,670 --> 00:03:27,599

space station

45

00:03:33,030 --> 00:03:29,680

it has a

46

00:03:36,949 --> 00:03:33,040

stowage compartment and also its own

47

00:03:44,949 --> 00:03:38,869

the

48

00:03:46,390 --> 00:03:44,959

high tech

49

00:03:49,030 --> 00:03:46,400

canadarm2

50

00:03:50,630 --> 00:03:49,040

a 55-foot long

51
00:03:55,030 --> 00:03:50,640
robotic arm

52
00:03:57,030 --> 00:03:55,040
used for multiple outside activities

53
00:03:59,030 --> 00:03:57,040
associated with assembly and maintenance

54
00:04:00,869 --> 00:03:59,040
of the station

55
00:04:05,270 --> 00:04:00,879
atlanta station this is houston are you

56
00:04:05,280 --> 00:04:08,789
we are ready for the event

57
00:04:13,110 --> 00:04:10,789
associated press this is mission control

58
00:04:14,869 --> 00:04:13,120
houston please call atlantis station for

59
00:04:20,710 --> 00:04:14,879
a voice check

60
00:04:21,990 --> 00:04:20,720
iss this is the associated press

61
00:04:24,629 --> 00:04:22,000
we hear you loud and clear is this

62
00:04:26,710 --> 00:04:24,639
marcia yes it is good morning everybody

63
00:04:28,790 --> 00:04:26,720

from the kennedy space center

64

00:04:30,390 --> 00:04:28,800

i'm wondering if any of you have had a

65

00:04:36,550 --> 00:04:30,400

chance to peek into the new russian

66

00:04:40,469 --> 00:04:38,469

well honestly they're opening the hatch

67

00:04:43,430 --> 00:04:40,479

today and pierce do you know what time

68

00:04:45,430 --> 00:04:43,440

they're opening it

69

00:04:47,590 --> 00:04:45,440

they're filtering the air and then they

70

00:04:48,790 --> 00:04:47,600

close the hatch so gently they close the

71

00:04:50,710 --> 00:04:48,800

house shelly and i think we're going to

72

00:04:52,629 --> 00:04:50,720

get a sneak preview in about an hour or

73

00:04:54,550 --> 00:04:52,639

so is that right so

74

00:04:59,030 --> 00:04:54,560

we're hoping to go in there and

75

00:05:02,629 --> 00:05:00,950

well for the commander um you must be

76

00:05:04,629 --> 00:05:02,639

very pleased with the way the mission

77

00:05:06,550 --> 00:05:04,639

has gone so far if you could touch on

78

00:05:08,310 --> 00:05:06,560

that and i was also wondering if you

79

00:05:14,390 --> 00:05:08,320

could give your best sales pitch for

80

00:05:17,830 --> 00:05:15,590

yeah that's a good one the second part

81

00:05:20,710 --> 00:05:17,840

yeah uh to answer your first question i

82

00:05:22,070 --> 00:05:20,720

am absolutely super pleased uh the first

83

00:05:24,790 --> 00:05:22,080

eva

84

00:05:26,790 --> 00:05:24,800

went well and that was good because it

85

00:05:27,590 --> 00:05:26,800

had potential to not go well

86

00:05:31,110 --> 00:05:27,600

and

87

00:05:32,629 --> 00:05:31,120

the mrm one install went perfectly

88

00:05:33,909 --> 00:05:32,639

which as you remember from our

89

00:05:35,189 --> 00:05:33,919

conversation i was a little nervous

90

00:05:37,590 --> 00:05:35,199

about

91

00:05:39,670 --> 00:05:37,600

and the eva yesterday went better than

92

00:05:41,909 --> 00:05:39,680

anyone could have imagined so we are now

93

00:05:43,670 --> 00:05:41,919

ahead on our eva tasks we got our

94

00:05:44,710 --> 00:05:43,680

primary mission

95

00:05:46,230 --> 00:05:44,720

objective

96

00:05:47,990 --> 00:05:46,240

accomplished

97

00:05:50,150 --> 00:05:48,000

and uh and we're all feeling pretty darn

98

00:05:52,150 --> 00:05:50,160

good we're gonna refocus again tonight

99

00:05:55,029 --> 00:05:52,160

when we put two spacewalkers back in the

100

00:05:56,629 --> 00:05:55,039

airlock and get through eva3 and finish

101
00:05:58,550 --> 00:05:56,639
up all of our tasks and hopefully take

102
00:06:00,390 --> 00:05:58,560
care of some some extra tasks that we

103
00:06:03,029 --> 00:06:00,400
weren't really planning on which would

104
00:06:05,029 --> 00:06:03,039
be good for a space station

105
00:06:06,790 --> 00:06:05,039
for tony i'm wondering how tired are

106
00:06:09,029 --> 00:06:06,800
your space walkers since you're the one

107
00:06:10,870 --> 00:06:09,039
in keeping track of them and are they

108
00:06:15,909 --> 00:06:10,880
pretty pumped up for tomorrow's grand

109
00:06:20,070 --> 00:06:18,629
yeah they're uh they're not too tired

110
00:06:22,710 --> 00:06:20,080
we wear them out during the day and then

111
00:06:23,909 --> 00:06:22,720
we rest them up for a day and then put

112
00:06:26,790 --> 00:06:23,919
them back to work

113
00:06:29,110 --> 00:06:26,800

works out a pretty good pace for them

114

00:06:31,029 --> 00:06:29,120

they are geared up and ready to go

115

00:06:33,189 --> 00:06:31,039

we're still working on gathering all the

116

00:06:34,950 --> 00:06:33,199

tools and the different tasks that we're

117

00:06:36,550 --> 00:06:34,960

going to execute they got so much done

118

00:06:37,909 --> 00:06:36,560

on eva 2

119

00:06:40,950 --> 00:06:37,919

we're adding more to their plate and

120

00:06:42,710 --> 00:06:40,960

we're putting that story together now

121

00:06:44,390 --> 00:06:42,720

for peers i'm wondering have you had a

122

00:06:46,390 --> 00:06:44,400

chance to take out the piece of wood

123

00:06:48,070 --> 00:06:46,400

from sir isaac newton's apple tree or

124

00:06:49,350 --> 00:06:48,080

his picture maybe even had a little

125

00:06:54,550 --> 00:06:49,360

ceremony

126

00:06:58,469 --> 00:06:56,150

i had a little dry run yesterday in the

127

00:07:00,390 --> 00:06:58,479

cupola and so isaac absolutely loved it

128

00:07:02,070 --> 00:07:00,400

i gotta tell you

129

00:07:04,230 --> 00:07:02,080

we had him in the window and he got to

130

00:07:05,909 --> 00:07:04,240

watch his little wood chip float by and

131

00:07:07,510 --> 00:07:05,919

ponder the laws of gravitation and

132

00:07:09,830 --> 00:07:07,520

everything so i think it was a treat for

133

00:07:12,150 --> 00:07:09,840

him and i'll do something on video later

134

00:07:14,230 --> 00:07:12,160

on for the royal society and for the

135

00:07:15,589 --> 00:07:14,240

national academy

136

00:07:17,029 --> 00:07:15,599

you don't happen to have any of that

137

00:07:21,189 --> 00:07:17,039

there with you now do you that you could

138

00:07:24,469 --> 00:07:22,870

i'm afraid not that was just a dry run

139

00:07:25,749 --> 00:07:24,479

someone else had a video camera so it's

140

00:07:27,589 --> 00:07:25,759

just me and sir isaac you'll have to

141

00:07:29,350 --> 00:07:27,599

take my word for it

142

00:07:31,749 --> 00:07:29,360

i believe you

143

00:07:33,270 --> 00:07:31,759

and for tracy i'm wondering um ola

144

00:07:35,270 --> 00:07:33,280

talked the other day about seeing the

145

00:07:37,110 --> 00:07:35,280

oil spill in the gulf of mexico and i'm

146

00:07:39,510 --> 00:07:37,120

wondering have you had a chance to see

147

00:07:44,469 --> 00:07:39,520

it and or maybe anybody else on the crew

148

00:07:49,110 --> 00:07:46,950

well i wish i have had a chance to look

149

00:07:51,589 --> 00:07:49,120

out the window at just that appropriate

150

00:07:54,070 --> 00:07:51,599

moment but unfortunately i haven't but

151
00:07:55,589 --> 00:07:54,080
some of my crewmates uh suici and also

152
00:07:57,749 --> 00:07:55,599
olek have

153
00:08:01,189 --> 00:07:57,759
been taking pictures and marking the

154
00:08:02,710 --> 00:08:01,199
time when we come over that area and

155
00:08:07,029 --> 00:08:02,720
i have to say that

156
00:08:09,189 --> 00:08:07,039
their report is it's a bit heartbreaking

157
00:08:10,550 --> 00:08:09,199
and i'm wondering for the shuttle crew

158
00:08:16,869 --> 00:08:10,560
what do you plan to do with your big

159
00:08:19,749 --> 00:08:18,390
oh you would throw the mic at me for

160
00:08:21,589 --> 00:08:19,759
that

161
00:08:22,790 --> 00:08:21,599
take a break uh and recharge our

162
00:08:23,830 --> 00:08:22,800
batteries kind of like what tony was

163
00:08:25,029 --> 00:08:23,840

talking about we've been hitting it

164

00:08:27,270 --> 00:08:25,039

pretty hard

165

00:08:29,110 --> 00:08:27,280

these last few days and i think we were

166

00:08:30,629 --> 00:08:29,120

all really tired some of us actually

167

00:08:31,990 --> 00:08:30,639

slept in a little bit this morning which

168

00:08:33,829 --> 00:08:32,000

was really nice

169

00:08:35,589 --> 00:08:33,839

and we get an opportunity to do some of

170

00:08:37,670 --> 00:08:35,599

the things you just mentioned like look

171

00:08:40,149 --> 00:08:37,680

out the window out the cupola

172

00:08:41,829 --> 00:08:40,159

at the earth and see some of the more

173

00:08:43,670 --> 00:08:41,839

more amazing sights that are down there

174

00:08:46,870 --> 00:08:43,680

as well as some of the the tragedies

175

00:08:51,829 --> 00:08:48,550

it basically all in all it's a day to

176
00:09:03,590 --> 00:08:51,839
take pictures and make some memories

177
00:09:11,350 --> 00:09:06,150
atlantis iss this is fox news radio how

178
00:09:11,360 --> 00:09:15,269
we hear you loud and clear

179
00:09:18,630 --> 00:09:17,110
right we're going to pause briefly to

180
00:09:26,790 --> 00:09:18,640
allow our affiliates to join our

181
00:09:31,190 --> 00:09:29,190
this is a fox news radio special a live

182
00:09:33,030 --> 00:09:31,200
conversation with astronauts aboard

183
00:09:34,949 --> 00:09:33,040
space shuttle atlantis and the

184
00:09:37,509 --> 00:09:34,959
international space station i'm evan

185
00:09:39,750 --> 00:09:37,519
brown fox news radio in miami and above

186
00:09:42,310 --> 00:09:39,760
us is ken ham commander of atlantis

187
00:09:44,470 --> 00:09:42,320
mission pilot tony antonelli pierce

188
00:09:46,150 --> 00:09:44,480

sellers the mission specialist and tracy

189

00:09:48,230 --> 00:09:46,160

caldwell dyson a flight engineer from

190

00:09:49,910 --> 00:09:48,240

the space station crew welcome to the

191

00:09:51,910 --> 00:09:49,920

four of you good morning and since we're

192

00:09:53,670 --> 00:09:51,920

on radio i ask that you please identify

193

00:09:55,190 --> 00:09:53,680

yourselves each time you begin speaking

194

00:09:57,190 --> 00:09:55,200

and to our listeners please understand

195

00:09:58,550 --> 00:09:57,200

it's a long way between ground and space

196

00:10:00,710 --> 00:09:58,560

and there will be a delay between

197

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

question and answer uh you're all part

198

00:10:05,030 --> 00:10:02,480

of something historic and this is the

199

00:10:07,030 --> 00:10:05,040

very last or likely the very last flight

200

00:10:08,710 --> 00:10:07,040

of atlantis what's it like to know that

201

00:10:15,590 --> 00:10:08,720

you'll be the last group to work with

202

00:10:21,030 --> 00:10:17,269

well hey thanks for having us on your

203

00:10:23,590 --> 00:10:21,040

radio show this is uh tony antonelli um

204

00:10:26,389 --> 00:10:23,600

atlantis is holding up great she's a

205

00:10:28,069 --> 00:10:26,399

fantastic ship and uh

206

00:10:30,230 --> 00:10:28,079

hopefully uh

207

00:10:31,990 --> 00:10:30,240

commander ken ham here will have a

208

00:10:34,550 --> 00:10:32,000

flawless landing and

209

00:10:36,710 --> 00:10:34,560

it won't absolutely dictate that it's

210

00:10:38,470 --> 00:10:36,720

atlantis last flight and we'll let the

211

00:10:40,310 --> 00:10:38,480

program managers decide whether she's

212

00:10:46,790 --> 00:10:40,320

going to fly again but she's holding up

213

00:10:50,870 --> 00:10:48,870

yeah and looking at uh your daily

214

00:10:53,750 --> 00:10:50,880

schedules i i see something on there

215

00:10:55,990 --> 00:10:53,760

called crew off duty time and what what

216

00:10:57,670 --> 00:10:56,000

does exactly one do with their free time

217

00:11:03,430 --> 00:10:57,680

in space and please all of you take a

218

00:11:07,990 --> 00:11:05,990

yeah this is ken ham uh off duty time is

219

00:11:08,949 --> 00:11:08,000

is the treasured part of the de uh the

220

00:11:11,190 --> 00:11:08,959

mission

221

00:11:13,110 --> 00:11:11,200

where you actually get a chance to

222

00:11:15,030 --> 00:11:13,120

take some time and look out the window

223

00:11:17,030 --> 00:11:15,040

maybe watch a whole lap around the earth

224

00:11:18,310 --> 00:11:17,040

and it's in those times where you really

225

00:11:20,150 --> 00:11:18,320

start to pick up on some of the

226

00:11:21,030 --> 00:11:20,160

subtleties of how the atmosphere works

227

00:11:25,350 --> 00:11:21,040

and

228

00:11:27,829 --> 00:11:25,360

how they're different

229

00:11:29,509 --> 00:11:27,839

both naturally and how humans have

230

00:11:30,550 --> 00:11:29,519

changed it and that's uh that's

231

00:11:43,990 --> 00:11:30,560

something where some of the best

232

00:11:47,110 --> 00:11:45,110

on a

233

00:11:48,790 --> 00:11:47,120

on other missions uh we know that you

234

00:11:50,069 --> 00:11:48,800

guys get a chance to look out the cupola

235

00:11:52,389 --> 00:11:50,079

which is a

236

00:11:54,629 --> 00:11:52,399

recently installed big bay window it's

237

00:11:56,470 --> 00:11:54,639

got to provide some some great views can

238

00:11:58,150 --> 00:11:56,480

any of you see your hometowns and have

239

00:12:04,150 --> 00:11:58,160

you been able to spot the oil spill in

240

00:12:08,790 --> 00:12:06,790

yeah the cupola this is piers sellers

241

00:12:10,949 --> 00:12:08,800

tracy and i have been sitting in the

242

00:12:12,550 --> 00:12:10,959

cupola for a couple of days uh working

243

00:12:15,350 --> 00:12:12,560

and now and again looking down it's like

244

00:12:17,110 --> 00:12:15,360

a the belly turret on the station this

245

00:12:18,629 --> 00:12:17,120

little glass bubble hanging underneath

246

00:12:19,829 --> 00:12:18,639

and you can see the whole world float by

247

00:12:21,750 --> 00:12:19,839

you can see it coming at you from one

248

00:12:23,190 --> 00:12:21,760

direction go past underneath and go away

249

00:12:24,870 --> 00:12:23,200

from the other side

250

00:12:26,550 --> 00:12:24,880

just beautiful um

251
00:12:28,710 --> 00:12:26,560
incredible it's like being an imax

252
00:12:30,470 --> 00:12:28,720
except it's real

253
00:12:32,550 --> 00:12:30,480
i haven't seen the oil slick and i don't

254
00:12:33,910 --> 00:12:32,560
think anyone else on this crew has yet

255
00:12:35,829 --> 00:12:33,920
but a couple of the station crew have

256
00:12:40,069 --> 00:12:35,839
seen it and they say it's really large

257
00:12:43,750 --> 00:12:42,230
uh pierce i'm glad you spoke up because

258
00:12:46,069 --> 00:12:43,760
as the rest of us can tell you're you're

259
00:12:48,389 --> 00:12:46,079
british born and a nasa astronaut and

260
00:12:50,150 --> 00:12:48,399
we're told that you have a special piece

261
00:12:51,910 --> 00:12:50,160
of wood that you carried up from earth

262
00:12:54,550 --> 00:12:51,920
and wondering if you could tell us about

263
00:12:59,750 --> 00:12:54,560

it and uh and and why exactly it's up

264

00:13:03,269 --> 00:13:01,990

yeah i asked the royal society uh if i

265

00:13:04,629 --> 00:13:03,279

could fly something for them that's the

266

00:13:06,550 --> 00:13:04,639

royal society of london the oldest

267

00:13:07,350 --> 00:13:06,560

scientific society in the world and i

268

00:13:09,030 --> 00:13:07,360

thought they were going to give me

269

00:13:11,590 --> 00:13:09,040

something like a medal

270

00:13:13,430 --> 00:13:11,600

or i'd know a little telescope or

271

00:13:15,910 --> 00:13:13,440

something but they sent me a piece of

272

00:13:18,150 --> 00:13:15,920

isaac newton's apple tree and that's the

273

00:13:20,550 --> 00:13:18,160

apple tree under which he was sitting

274

00:13:22,629 --> 00:13:20,560

when the apple fell off and he said ah

275

00:13:24,470 --> 00:13:22,639

i think i've figured out gravity

276

00:13:26,550 --> 00:13:24,480

so i've taken this apple tree chip up

277

00:13:27,670 --> 00:13:26,560

here and a picture of isaac newton this

278

00:13:29,509 --> 00:13:27,680

will give him something more to think

279

00:13:30,790 --> 00:13:29,519

about i think

280

00:13:33,750 --> 00:13:30,800

because it's floating around it's not

281

00:13:39,910 --> 00:13:35,430

so the apple isn't hitting his head this

282

00:13:43,110 --> 00:13:41,670

that's right isaac and the apple are

283

00:13:47,670 --> 00:13:43,120

just floating around the earth inside

284

00:13:52,629 --> 00:13:49,990

and for the one of the four of you who

285

00:13:54,710 --> 00:13:52,639

is a long-term uh uh crew member on the

286

00:13:57,350 --> 00:13:54,720

space station that would be uh tracy

287

00:14:00,069 --> 00:13:57,360

caldwell uh dyson uh you are about to

288

00:14:01,350 --> 00:14:00,079

get a voice over ip telephone installed

289

00:14:07,990 --> 00:14:01,360

up there we're told that's got to make

290

00:14:10,949 --> 00:14:09,269

well

291

00:14:13,030 --> 00:14:10,959

currently we have a

292

00:14:15,350 --> 00:14:13,040

internet protocol phone that

293

00:14:16,949 --> 00:14:15,360

enables us to reach home and

294

00:14:20,629 --> 00:14:16,959

talk to loved ones

295

00:14:22,870 --> 00:14:20,639

anytime we have ku band and satellites

296

00:14:25,750 --> 00:14:22,880

lining up and it is it's an

297

00:14:28,470 --> 00:14:25,760

extraordinary asset that we have

298

00:14:30,389 --> 00:14:28,480

i think the shuttle crew also can

299

00:14:32,230 --> 00:14:30,399

vouch that when they're here visiting

300

00:14:36,389 --> 00:14:32,240

it's a great part of the mission

301
00:14:38,629 --> 00:14:36,399
and uh an often used uh asset during

302
00:14:40,069 --> 00:14:38,639
off-duty time as well as those

303
00:14:41,670 --> 00:14:40,079
brief moments you have in between

304
00:14:44,389 --> 00:14:41,680
activities it's

305
00:14:45,910 --> 00:14:44,399
it's amazing that we're here and it's

306
00:14:50,310 --> 00:14:45,920
a treasure that we get to share it with

307
00:14:53,750 --> 00:14:51,990
you know and with the shuttle program

308
00:14:55,990 --> 00:14:53,760
apparently ending i'm sure you're all

309
00:14:57,910 --> 00:14:56,000
hearing the debates about how nasa will

310
00:15:00,389 --> 00:14:57,920
proceed and obviously today's children

311
00:15:01,910 --> 00:15:00,399
will be tomorrow's astronauts

312
00:15:04,629 --> 00:15:01,920
do any of you have thoughts for the

313
00:15:11,350 --> 00:15:04,639

children who may want to have a future

314

00:15:15,269 --> 00:15:14,069

well this is tracy caldwell dyson uh

315

00:15:16,629 --> 00:15:15,279

i think

316

00:15:18,790 --> 00:15:16,639

it'd be important to hear from one of

317

00:15:21,750 --> 00:15:18,800

our shuttle crew members but from my

318

00:15:26,870 --> 00:15:24,389

it's it's with our kids and

319

00:15:29,590 --> 00:15:26,880

this dream will only continue if it's in

320

00:15:31,509 --> 00:15:29,600

their hearts too and if um

321

00:15:33,670 --> 00:15:31,519

if they only realize that it's up to

322

00:15:36,550 --> 00:15:33,680

them to keep this dream alive then i

323

00:15:37,910 --> 00:15:36,560

think that it will live on um because

324

00:15:40,949 --> 00:15:37,920

they need to realize that they're just

325

00:15:41,829 --> 00:15:40,959

as powerful as this program is today and

326
00:15:44,629 --> 00:15:41,839
if they

327
00:15:46,949 --> 00:15:44,639
embrace it as we have

328
00:16:07,590 --> 00:15:46,959
to make it what it is today then i

329
00:16:11,350 --> 00:16:09,189
all right well thank you all very much

330
00:16:13,350 --> 00:16:11,360
that would be ken ham tony antonelli

331
00:16:15,110 --> 00:16:13,360
pierce sellers and tracy caldwell dyson

332
00:16:16,790 --> 00:16:15,120
all aboard the space shuttle atlantis

333
00:16:19,430 --> 00:16:16,800
and the international space station

334
00:16:21,189 --> 00:16:19,440
thank you for taking time with us

335
00:16:23,110 --> 00:16:21,199
this has been a live conversation with

336
00:16:26,150 --> 00:16:23,120
those astronauts at the space station

337
00:16:28,069 --> 00:16:26,160
and the shuttle which will likely be the

338
00:16:30,389 --> 00:16:28,079

final mission of space shuttle atlantis

339

00:16:31,670 --> 00:16:30,399

she's due to return to earth next week

340

00:16:34,389 --> 00:16:31,680

and there are two more flights of the

341

00:16:37,110 --> 00:16:34,399

shuttles left each one for discovery and

342

00:16:39,590 --> 00:16:37,120

endeavor

343

00:16:41,430 --> 00:16:39,600

station iss good morning this is cbs

344

00:16:45,749 --> 00:16:41,440

news how do you hear me

345

00:16:47,509 --> 00:16:45,759

and clear

346

00:16:50,069 --> 00:16:47,519

good morning everyone it's peter king in

347

00:16:51,590 --> 00:16:50,079

florida bill harwood is at jsc in

348

00:16:53,269 --> 00:16:51,600

houston and bill's got the first

349

00:16:54,710 --> 00:16:53,279

question for you yeah hey guys it's

350

00:16:56,629 --> 00:16:54,720

great to see you and i'd like to start

351

00:16:58,069 --> 00:16:56,639

with ken ham if i could and

352

00:16:59,829 --> 00:16:58,079

ken since you're the one who's upside

353

00:17:02,069 --> 00:16:59,839

down today you must have a unique

354

00:17:03,509 --> 00:17:02,079

perspective on things so give me your

355

00:17:04,949 --> 00:17:03,519

view the commander's view of how the

356

00:17:06,789 --> 00:17:04,959

mission's been going you expressed some

357

00:17:08,309 --> 00:17:06,799

concern uh before launch about the

358

00:17:09,270 --> 00:17:08,319

complexity of it and how everything had

359

00:17:11,189 --> 00:17:09,280

to happen

360

00:17:15,669 --> 00:17:11,199

right on time and it seems to have done

361

00:17:18,949 --> 00:17:17,429

yeah bill good to talk to you again uh

362

00:17:20,390 --> 00:17:18,959

as you remember from our conversation a

363

00:17:22,870 --> 00:17:20,400

few weeks ago

364

00:17:25,029 --> 00:17:22,880

uh as i went through the all of the inc

365

00:17:27,110 --> 00:17:25,039

intricacies of the operation that had to

366

00:17:29,110 --> 00:17:27,120

happen to get mrm docked and talking to

367

00:17:30,310 --> 00:17:29,120

space station i started scaring myself

368

00:17:32,310 --> 00:17:30,320

talking to you

369

00:17:34,150 --> 00:17:32,320

and making sure that that happened

370

00:17:36,549 --> 00:17:34,160

yesterday with the crew and everybody

371

00:17:38,390 --> 00:17:36,559

working together everyone on the ground

372

00:17:39,190 --> 00:17:38,400

turned out to be absolutely fantastic we

373

00:17:41,190 --> 00:17:39,200

were

374

00:17:42,870 --> 00:17:41,200

elated i'm sorry not yesterday the day

375

00:17:44,150 --> 00:17:42,880

before but the spacewalk we did

376
00:17:46,390 --> 00:17:44,160
yesterday

377
00:17:48,390 --> 00:17:46,400
was another difficult spacewalk

378
00:17:50,070 --> 00:17:48,400
and the boys outside performed

379
00:17:53,190 --> 00:17:50,080
flawlessly

380
00:17:55,669 --> 00:17:53,200
and got us well ahead of our timeline uh

381
00:17:58,070 --> 00:17:55,679
everybody on board here last night as

382
00:17:59,669 --> 00:17:58,080
well as our ground team we had a a nice

383
00:18:01,110 --> 00:17:59,679
conference with them

384
00:18:02,549 --> 00:18:01,120
yesterday evening

385
00:18:04,549 --> 00:18:02,559
we were all

386
00:18:06,710 --> 00:18:04,559
absolutely thrilled at how this mission

387
00:18:08,390 --> 00:18:06,720
is going so far so we're just going to

388
00:18:09,750 --> 00:18:08,400

stay focused and get through the next

389

00:18:11,750 --> 00:18:09,760

few days and

390

00:18:13,270 --> 00:18:11,760

hopefully call this one a good one

391

00:18:15,430 --> 00:18:13,280

hey thanks a lot let me ask one of

392

00:18:16,789 --> 00:18:15,440

pierce sellers if i could real quick

393

00:18:18,710 --> 00:18:16,799

appears you said before launch you were

394

00:18:20,150 --> 00:18:18,720

looking forward to robotic operations

395

00:18:21,110 --> 00:18:20,160

from inside the cupola and i'm just

396

00:18:22,870 --> 00:18:21,120

wondering

397

00:18:24,310 --> 00:18:22,880

how reality has played out is it really

398

00:18:29,750 --> 00:18:24,320

that much better

399

00:18:33,990 --> 00:18:32,470

hey no no question about it uh tracy and

400

00:18:35,830 --> 00:18:34,000

i have been sitting in this little glass

401
00:18:36,789 --> 00:18:35,840
bubble that hangs underneath the space

402
00:18:38,870 --> 00:18:36,799
station

403
00:18:40,870 --> 00:18:38,880
and you can see everything uh you know

404
00:18:43,110 --> 00:18:40,880
you can see big chunks of station you

405
00:18:44,789 --> 00:18:43,120
can see the shuttle docked to one end

406
00:18:47,190 --> 00:18:44,799
and the arm stretched out in front of

407
00:18:48,710 --> 00:18:47,200
you and it makes it so much easier to

408
00:18:51,430 --> 00:18:48,720
figure out what's going on with the arm

409
00:18:53,110 --> 00:18:51,440
which is like a big monstrous crane

410
00:18:55,430 --> 00:18:53,120
you can actually see what it's doing and

411
00:18:57,590 --> 00:18:55,440
go and grab things with it and

412
00:18:59,590 --> 00:18:57,600
much better than watching it all on tv i

413
00:19:01,590 --> 00:18:59,600

can tell you

414

00:19:03,190 --> 00:19:01,600

it's peter king back in florida and this

415

00:19:04,870 --> 00:19:03,200

is for tracy since you're the space

416

00:19:07,029 --> 00:19:04,880

station crew member here you've just

417

00:19:08,870 --> 00:19:07,039

gotten a new russian mini research

418

00:19:10,630 --> 00:19:08,880

module you've opened up the hatch for

419

00:19:12,150 --> 00:19:10,640

the first time this morning tell us a

420

00:19:13,990 --> 00:19:12,160

little bit about

421

00:19:19,190 --> 00:19:14,000

that and what it's capable of doing what

422

00:19:21,350 --> 00:19:20,390

like

423

00:19:24,310 --> 00:19:21,360

i think

424

00:19:25,590 --> 00:19:24,320

the answer to that is yet to come the

425

00:19:27,510 --> 00:19:25,600

russian

426

00:19:30,549 --> 00:19:27,520

crewmates have just opened up the hatch

427

00:19:32,789 --> 00:19:30,559

and looked inside and i went back to

428

00:19:35,190 --> 00:19:32,799

get an update and it sounds like

429

00:19:37,830 --> 00:19:35,200

it's full of stuff and not the least of

430

00:19:39,270 --> 00:19:37,840

which are hardware that must be removed

431

00:19:41,669 --> 00:19:39,280

before they can actually get to all of

432

00:19:43,430 --> 00:19:41,679

the goods that they're to bring out to

433

00:19:45,270 --> 00:19:43,440

the space station so i think there's a

434

00:19:46,950 --> 00:19:45,280

little bit of work to be done before we

435

00:19:49,190 --> 00:19:46,960

can go in and start enjoying it and

436

00:19:50,950 --> 00:19:49,200

utilizing it for the laboratory that

437

00:19:53,510 --> 00:19:50,960

it's intended to be but it's

438

00:19:55,590 --> 00:19:53,520

it's a great addition uh to the space

439

00:19:58,230 --> 00:19:55,600

station and especially for our russian

440

00:20:00,070 --> 00:19:58,240

segment and i think that we can look

441

00:20:02,070 --> 00:20:00,080

forward to some

442

00:20:03,750 --> 00:20:02,080

relief in terms of stowage as well as

443

00:20:04,950 --> 00:20:03,760

some extra

444

00:20:07,750 --> 00:20:04,960

space to do

445

00:20:09,669 --> 00:20:07,760

the very valuable experiments that we've

446

00:20:11,510 --> 00:20:09,679

brought on board

447

00:20:14,149 --> 00:20:11,520

well speaking of jam-packed the first

448

00:20:16,630 --> 00:20:14,159

two evas have been jam-packed for tony

449

00:20:18,870 --> 00:20:16,640

antonelli is uh since you're the

450

00:20:20,630 --> 00:20:18,880

spacewalk choreographer you're already

451
00:20:22,630 --> 00:20:20,640
ahead on the battery installed so what

452
00:20:24,870 --> 00:20:22,640
are what are some of the other things

453
00:20:29,029 --> 00:20:24,880
you hope that eva can accomplish

454
00:20:33,669 --> 00:20:30,870
yeah the only thing i hope they

455
00:20:35,270 --> 00:20:33,679
accomplish is back in safe

456
00:20:37,270 --> 00:20:35,280
i kind of feel a little bit responsible

457
00:20:38,950 --> 00:20:37,280
for them when they're outside the the

458
00:20:40,390 --> 00:20:38,960
team however is trying to get a lot of

459
00:20:42,310 --> 00:20:40,400
extra work done and so they're putting

460
00:20:44,470 --> 00:20:42,320
that list together right now

461
00:20:45,430 --> 00:20:44,480
we've got some tools inside that we're

462
00:20:46,870 --> 00:20:45,440
going to go

463
00:20:48,870 --> 00:20:46,880

so we're going to finish the last two

464

00:20:51,029 --> 00:20:48,880

batteries we got a grapple fixture in

465

00:20:53,110 --> 00:20:51,039

our in the atlantis's payload bay that

466

00:20:54,549 --> 00:20:53,120

we're going to bring inside to later

467

00:20:58,070 --> 00:20:54,559

install

468

00:21:01,029 --> 00:20:58,080

uh back on the russian segment fgb

469

00:21:03,110 --> 00:21:01,039

um that's our regular plan test and then

470

00:21:05,110 --> 00:21:03,120

some of the get-aheads are resupply some

471

00:21:07,110 --> 00:21:05,120

of the toolboxes that are outside

472

00:21:09,270 --> 00:21:07,120

basically just like you would at home

473

00:21:10,870 --> 00:21:09,280

you end up using all your tools and they

474

00:21:12,870 --> 00:21:10,880

don't all end up right back in their

475

00:21:14,789 --> 00:21:12,880

slots in the toolboxes so we're going to

476

00:21:16,390 --> 00:21:14,799

do some of that cleanup

477

00:21:18,149 --> 00:21:16,400

we've got some ammonia jumpers to

478

00:21:19,909 --> 00:21:18,159

connect and a few other things that the

479

00:21:21,270 --> 00:21:19,919

ground team's uh

480

00:21:23,110 --> 00:21:21,280

putting together for us and we'll spend

481

00:21:25,110 --> 00:21:23,120

the afternoon studying that up so we're

482

00:21:26,390 --> 00:21:25,120

ready to do it tomorrow

483

00:21:28,470 --> 00:21:26,400

that's bill harwood again with a quick

484

00:21:30,789 --> 00:21:28,480

one for tracy and tracy what's it like

485

00:21:32,549 --> 00:21:30,799

to launch on soyuz and and how tough has

486

00:21:33,830 --> 00:21:32,559

it been or maybe touched the wrong word

487

00:21:36,870 --> 00:21:33,840

what's it been like

488

00:21:38,549 --> 00:21:36,880

adjusting to life in space full-time

489

00:21:39,750 --> 00:21:38,559

operations aboard the space station just

490

00:21:44,789 --> 00:21:39,760

wondering about being away from your

491

00:21:48,470 --> 00:21:46,549

oh well it's hard to put all of that in

492

00:21:50,470 --> 00:21:48,480

a nutshell i'll tell you that launching

493

00:21:52,070 --> 00:21:50,480

on a soyuz is

494

00:21:53,430 --> 00:21:52,080

i'd say a

495

00:21:54,870 --> 00:21:53,440

bit different from launching on a

496

00:21:56,230 --> 00:21:54,880

shuttle

497

00:21:58,470 --> 00:21:56,240

and not the least of which is the

498

00:22:00,310 --> 00:21:58,480

environment that you're in

499

00:22:02,390 --> 00:22:00,320

having launched on a shuttle and being

500

00:22:04,070 --> 00:22:02,400

in florida and surrounded by

501
00:22:06,950 --> 00:22:04,080
all that is familiar

502
00:22:09,270 --> 00:22:06,960
to launch and live in baikonur for two

503
00:22:11,830 --> 00:22:09,280
weeks and also leave your home in

504
00:22:13,590 --> 00:22:11,840
houston and family and friends months

505
00:22:15,590 --> 00:22:13,600
prior to that

506
00:22:17,590 --> 00:22:15,600
really makes the mission start a lot

507
00:22:19,750 --> 00:22:17,600
earlier than the moment that the rocket

508
00:22:21,350 --> 00:22:19,760
lights i can tell you that the soyuz

509
00:22:23,190 --> 00:22:21,360
itself is

510
00:22:25,430 --> 00:22:23,200
a very robust vehicle and it's very

511
00:22:26,630 --> 00:22:25,440
interesting the differences between

512
00:22:28,630 --> 00:22:26,640
a solid

513
00:22:31,990 --> 00:22:28,640

rocket like the shuttle launches with

514

00:22:33,430 --> 00:22:32,000

and the liquid engines of a soyuz rocket

515

00:22:35,190 --> 00:22:33,440

and the fact that the soyuz actually

516

00:22:37,190 --> 00:22:35,200

hangs on its launch pad rather than

517

00:22:38,710 --> 00:22:37,200

bolted to it also

518

00:22:41,830 --> 00:22:38,720

creates an interesting sensation the

519

00:22:44,149 --> 00:22:41,840

moment of liftoff and there's a lot more

520

00:22:46,710 --> 00:22:44,159

yawning involved in the the launch as

521

00:22:48,950 --> 00:22:46,720

well as more g's being pulled

522

00:22:51,029 --> 00:22:48,960

the life on board uh the

523

00:22:51,990 --> 00:22:51,039

soyuz is of course different than

524

00:22:55,190 --> 00:22:52,000

shuttle

525

00:22:55,909 --> 00:22:55,200

you have much more cozy quarters and but

526
00:22:58,549 --> 00:22:55,919
much

527
00:23:01,270 --> 00:22:58,559
fewer people to uh to share that with

528
00:23:04,070 --> 00:23:01,280
uh it's um i could go on and on the

529
00:23:05,350 --> 00:23:04,080
differences are very unique and um

530
00:23:07,110 --> 00:23:05,360
very

531
00:23:10,149 --> 00:23:07,120
curious as well

532
00:23:12,789 --> 00:23:10,159
but suffice it to say that it is a

533
00:23:14,870 --> 00:23:12,799
vehicle that i felt very safe in and a

534
00:23:17,990 --> 00:23:14,880
ride that i'll never forget living on

535
00:23:20,230 --> 00:23:18,000
board the space station i was warned by

536
00:23:21,990 --> 00:23:20,240
those who have come before me and spent

537
00:23:24,310 --> 00:23:22,000
many months here on station that it

538
00:23:26,149 --> 00:23:24,320

takes about uh you know three or three

539

00:23:28,230 --> 00:23:26,159

weeks to actually um

540

00:23:30,230 --> 00:23:28,240

uh kind of feel your legs out you know

541

00:23:32,870 --> 00:23:30,240

aren't under you anymore and to start

542

00:23:35,430 --> 00:23:32,880

actually uh utilizing this place for uh

543

00:23:37,029 --> 00:23:35,440

what it is a floating laboratory but

544

00:23:38,549 --> 00:23:37,039

it's not until about the six week period

545

00:23:40,149 --> 00:23:38,559

which i'm reaching now where you

546

00:23:43,350 --> 00:23:40,159

actually feel like you got a handle on

547

00:23:45,269 --> 00:23:43,360

the place and so um and i and i do feel

548

00:23:48,070 --> 00:23:45,279

a lot uh more

549

00:23:49,990 --> 00:23:48,080

skilled at moving around the this very

550

00:23:50,870 --> 00:23:50,000

large

551
00:23:52,549 --> 00:23:50,880
ship

552
00:23:53,750 --> 00:23:52,559
than i did when i first got here of

553
00:23:56,470 --> 00:23:53,760
course

554
00:23:57,990 --> 00:23:56,480
and i'm in awe every day

555
00:23:58,950 --> 00:23:58,000
of what

556
00:24:01,110 --> 00:23:58,960
our

557
00:24:03,110 --> 00:24:01,120
countries have accomplished and feel

558
00:24:05,669 --> 00:24:03,120
very privileged being here

559
00:24:07,350 --> 00:24:05,679
well atlantis and iss thanks so much for

560
00:24:09,350 --> 00:24:07,360
uh some great answers this morning from

561
00:24:11,190 --> 00:24:09,360
cbs news it's peter king and bill

562
00:24:12,630 --> 00:24:11,200
harwood wishing you uh godspeed and a

563
00:24:36,710 --> 00:24:12,640

safe rest of the flight we'll see when

564

00:24:40,470 --> 00:24:38,310

the crew has been working to open up the

565

00:24:41,430 --> 00:24:40,480

hatch between the brand new rossvet

566

00:24:43,269 --> 00:24:41,440

module

567

00:24:44,390 --> 00:24:43,279

and the rest of the international space

568

00:24:45,430 --> 00:24:44,400

station right now you're seeing the

569

00:24:46,630 --> 00:24:45,440

layout

570

00:24:49,190 --> 00:24:46,640

of the station in its current

571

00:24:51,029 --> 00:24:49,200

configuration

572

00:24:54,230 --> 00:24:51,039

they've reported they've seen some metal

573

00:24:55,590 --> 00:24:54,240

shavings floating around inside mrm1 and

574

00:24:56,789 --> 00:24:55,600

what it sounds like the crew was talking

575

00:24:58,310 --> 00:24:56,799

about was

576
00:24:59,510 --> 00:24:58,320
as they move things around inside this

577
00:25:01,190 --> 00:24:59,520
brand new module that's when the

578
00:25:04,149 --> 00:25:01,200
shavings they saw

579
00:25:06,390 --> 00:25:04,159
were released into the environment

580
00:25:08,470 --> 00:25:06,400
oleg kotov the expedition 23 commander

581
00:25:10,710 --> 00:25:08,480
reported that those metal shavings are

582
00:25:12,310 --> 00:25:10,720
limited to the inside of mrm1 or

583
00:25:14,390 --> 00:25:12,320
rossvent

584
00:25:16,390 --> 00:25:14,400
so the russian flight control team has

585
00:25:17,830 --> 00:25:16,400
asked them to stand down

586
00:25:19,510 --> 00:25:17,840
uh from the remainder of the day's

587
00:25:21,350 --> 00:25:19,520
activities so that they can analyze it

588
00:25:23,350 --> 00:25:21,360

overnight and figure out uh what they

589

00:25:25,029 --> 00:25:23,360

want the crew to do

590

00:25:28,149 --> 00:25:25,039

this is one of the reasons why the crew

591

00:25:30,470 --> 00:25:28,159

members both russian and american and

592

00:25:32,950 --> 00:25:30,480

all the other international partners do

593

00:25:34,870 --> 00:25:32,960

wear protective masks and

594

00:25:36,149 --> 00:25:34,880

other items whenever they open up brand

595

00:25:38,310 --> 00:25:36,159

new modules

596

00:25:40,070 --> 00:25:38,320

as we talked about yesterday

597

00:25:41,990 --> 00:25:40,080

as you can imagine

598

00:25:43,830 --> 00:25:42,000

anything that may be hiding back in

599

00:25:45,830 --> 00:25:43,840

those modules whether it be dust or

600

00:25:48,789 --> 00:25:45,840

these metal shavings or whatever

601
00:25:50,390 --> 00:25:48,799
uh maybe uh inside there once you get up

602
00:25:51,909 --> 00:25:50,400
into space and if there's no gravity all

603
00:25:53,750 --> 00:25:51,919
of that comes floating out so that's one

604
00:25:55,029 --> 00:25:53,760
of the reasons why the crew members

605
00:25:56,870 --> 00:25:55,039
always wear

606
00:25:58,390 --> 00:25:56,880
masks whenever they first go into a

607
00:25:59,430 --> 00:25:58,400
brand new module and verify that the

608
00:26:02,630 --> 00:25:59,440
environment

609
00:26:07,110 --> 00:26:04,310
so the team here will take a look at it

610
00:26:09,590 --> 00:26:07,120
as well as the team in russia

611
00:26:11,590 --> 00:26:09,600
they may simply ask the crew to use the

612
00:26:13,830 --> 00:26:11,600
onboard vacuum cleaner to suck up those

613
00:26:21,430 --> 00:26:13,840

metal shavings and to get them out of

614

00:26:24,789 --> 00:26:23,029

but other than that the crew is enjoying