



1  
00:00:06,710 --> 00:00:01,829  
station mrs houston are you ready for

2  
00:00:06,720 --> 00:00:10,549  
ready for the event

3  
00:00:14,230 --> 00:00:12,390  
voice of america this is mission control

4  
00:00:17,990 --> 00:00:14,240  
houston please call station for a voice

5  
00:00:26,150 --> 00:00:19,990  
station this is the voice of america

6  
00:00:26,160 --> 00:00:31,269  
i have you loud and clear roman

7  
00:00:35,670 --> 00:00:33,910  
uh peggy it's really a big honor to see

8  
00:00:37,590 --> 00:00:35,680  
you and to have you with us i have to

9  
00:00:40,549 --> 00:00:37,600  
tell you that for some reason i have

10  
00:00:43,110 --> 00:00:40,559  
like a goosebumps i'm so excited and i

11  
00:00:45,830 --> 00:00:43,120  
am so admire you you're working there in

12  
00:00:48,549 --> 00:00:45,840  
space let me begin with real simple

13  
00:00:50,069 --> 00:00:48,559

questions what time is it there

14

00:00:52,470 --> 00:00:50,079

should i say good morning should i say

15

00:00:56,069 --> 00:00:52,480

good good evening should i say good good

16

00:01:03,270 --> 00:01:00,549

it's 13 41 so 1 41 in the afternoon uh

17

00:01:05,750 --> 00:01:03,280

we run on greenwich mean time here

18

00:01:09,270 --> 00:01:05,760

getting up around 6 a.m and going to bed

19

00:01:11,750 --> 00:01:09,280

around 9 00 p.m in the evening

20

00:01:13,990 --> 00:01:11,760

and because we work with control centers

21

00:01:16,550 --> 00:01:14,000

all around the world they are working on

22

00:01:19,749 --> 00:01:16,560

various different shifts uh throughout

23

00:01:22,390 --> 00:01:19,759

their nights their relative nights but

24

00:01:27,109 --> 00:01:22,400

we we stay on a standard day

25

00:01:31,910 --> 00:01:29,190

can you tell us more about the everyday

26

00:01:34,390 --> 00:01:31,920

life because a lot of uh people in our

27

00:01:35,350 --> 00:01:34,400

audience actually ask us to ask this

28

00:01:37,830 --> 00:01:35,360

question

29

00:01:40,310 --> 00:01:37,840

how you guys work what time is sunrise

30

00:01:45,749 --> 00:01:40,320

there what time is sun down like how you

31

00:01:49,670 --> 00:01:48,149

actually uh during the course of a day

32

00:01:53,190 --> 00:01:49,680

because we're traveling around the

33

00:01:56,230 --> 00:01:53,200

planet once every 90 minutes we have 16

34

00:02:00,230 --> 00:01:56,240

sunrises and 16 sunsets

35

00:02:02,230 --> 00:02:00,240

so it's uh we don't use the sun as our

36

00:02:04,389 --> 00:02:02,240

our guide for when to go to bed it's

37

00:02:06,870 --> 00:02:04,399

more based on just the time

38

00:02:09,589 --> 00:02:06,880

time of day so

39

00:02:11,830 --> 00:02:09,599

it works out fine for us

40

00:02:13,589 --> 00:02:11,840

we don't have as many windows as i would

41

00:02:16,470 --> 00:02:13,599

like to have on board the space station

42

00:02:19,190 --> 00:02:16,480

so it's not a huge distraction

43

00:02:19,990 --> 00:02:19,200

uh to us to have sunrise and sunset

44

00:02:24,390 --> 00:02:20,000

every

45

00:02:29,830 --> 00:02:26,949

uh peggy we asked our audience to send

46

00:02:31,990 --> 00:02:29,840

us questions that they want to ask you

47

00:02:34,630 --> 00:02:32,000

and a lot of questions about how you

48

00:02:36,790 --> 00:02:34,640

live in zero gravity uh

49

00:02:39,750 --> 00:02:36,800

what kind of what kind of effect it has

50

00:02:41,270 --> 00:02:39,760

for your body uh muscle loss bone loss

51  
00:02:44,790 --> 00:02:41,280  
can you tell us a little bit more about

52  
00:02:50,470 --> 00:02:47,589  
well being in microgravity without uh

53  
00:02:52,150 --> 00:02:50,480  
gravity to pull on us our bones do

54  
00:02:54,550 --> 00:02:52,160  
feel the effects

55  
00:02:55,670 --> 00:02:54,560  
they don't respond normally and so we

56  
00:02:58,149 --> 00:02:55,680  
have

57  
00:02:59,750 --> 00:02:58,159  
pretty significant bone demineralization

58  
00:03:02,229 --> 00:02:59,760  
it's actually

59  
00:03:05,830 --> 00:03:02,239  
probably about 10 times more than an

60  
00:03:07,750 --> 00:03:05,840  
osteoporotic woman would lose in

61  
00:03:10,149 --> 00:03:07,760  
a month on earth

62  
00:03:11,830 --> 00:03:10,159  
is what we would lose

63  
00:03:15,030 --> 00:03:11,840

over the course of

64

00:03:17,190 --> 00:03:15,040

a year so it's it's very important for

65

00:03:20,309 --> 00:03:17,200

us to study and understand those effects

66

00:03:22,470 --> 00:03:20,319

we also have fluid shifts that change

67

00:03:24,470 --> 00:03:22,480

maybe some potential effects on our

68

00:03:26,470 --> 00:03:24,480

vision and our eyes

69

00:03:28,229 --> 00:03:26,480

so there's lots of changes going on on

70

00:03:30,309 --> 00:03:28,239

our body and we are

71

00:03:32,149 --> 00:03:30,319

doing many different kinds of research

72

00:03:37,430 --> 00:03:32,159

studies to better understand those

73

00:03:43,589 --> 00:03:40,949

uh can you tell us if you miss actually

74

00:03:44,309 --> 00:03:43,599

gravity do you miss the chance to walk

75

00:03:47,990 --> 00:03:44,319

with

76

00:03:54,309 --> 00:03:48,000

barefoot on the green cross or put the

77

00:04:00,309 --> 00:03:57,350

well i if if the question is do i miss

78

00:04:01,670 --> 00:04:00,319

gravity mostly i can say no i don't miss

79

00:04:04,789 --> 00:04:01,680

gravity i think

80

00:04:05,750 --> 00:04:04,799

moving around up here is very easy

81

00:04:08,390 --> 00:04:05,760

it's

82

00:04:11,670 --> 00:04:08,400

nice once you get adapted to it you feel

83

00:04:13,190 --> 00:04:11,680

comfortable in any orientation and so

84

00:04:15,030 --> 00:04:13,200

being in

85

00:04:17,110 --> 00:04:15,040

the lack of gravity is actually very

86

00:04:19,749 --> 00:04:17,120

comfortable once you adapt

87

00:04:21,830 --> 00:04:19,759

uh it's only when you lose a tool and

88

00:04:24,950 --> 00:04:21,840

instead of just looking on the floor for

89

00:04:27,830 --> 00:04:24,960

it you have to look everywhere for it

90

00:04:30,150 --> 00:04:27,840

that's when you miss maybe gravity but

91

00:04:31,830 --> 00:04:30,160

to say whether or not i miss walking on

92

00:04:33,830 --> 00:04:31,840

a beach or

93

00:04:36,070 --> 00:04:33,840

swimming in the lake that that's a

94

00:04:37,830 --> 00:04:36,080

different question yes i do miss those

95

00:04:40,830 --> 00:04:37,840

things a little bit

96

00:04:45,830 --> 00:04:43,430

times uh can you tell us a little bit

97

00:04:47,430 --> 00:04:45,840

more about international space station

98

00:04:49,350 --> 00:04:47,440

and which part of international space

99

00:04:51,670 --> 00:04:49,360

station you're right now because we

100

00:04:54,150 --> 00:04:51,680

usually see just two kind of pictures

101  
00:04:56,390 --> 00:04:54,160  
outside of space station and that

102  
00:04:59,590 --> 00:04:56,400  
picture then you're right now so which

103  
00:05:04,230 --> 00:04:59,600  
parts this is and the way you guys sleep

104  
00:05:08,870 --> 00:05:07,350  
actually this is the u.s laboratory it's

105  
00:05:11,990 --> 00:05:08,880  
my favorite module because it's got the

106  
00:05:13,909 --> 00:05:12,000  
most scientific laboratory

107  
00:05:15,430 --> 00:05:13,919  
hardware in it that i enjoy using the

108  
00:05:17,749 --> 00:05:15,440  
most

109  
00:05:19,830 --> 00:05:17,759  
but we have behind this panel we have

110  
00:05:22,710 --> 00:05:19,840  
this big combustion chamber where we do

111  
00:05:25,189 --> 00:05:22,720  
studies on flames

112  
00:05:27,749 --> 00:05:25,199  
right up next to that we have a micro

113  
00:05:29,909 --> 00:05:27,759

gravity sciences glove box where we can

114

00:05:31,590 --> 00:05:29,919

uh stick our arms inside a closed

115

00:05:34,150 --> 00:05:31,600

environment and work on

116

00:05:36,469 --> 00:05:34,160

different studies we have another

117

00:05:38,870 --> 00:05:36,479

biophysics

118

00:05:40,710 --> 00:05:38,880

it's basically a enclosed microscope

119

00:05:42,550 --> 00:05:40,720

looking at um

120

00:05:44,870 --> 00:05:42,560

for instance uh

121

00:05:47,510 --> 00:05:44,880

biological processes that take a long

122

00:05:48,790 --> 00:05:47,520

time like protein crystallization

123

00:05:52,310 --> 00:05:48,800

we've got a

124

00:05:54,469 --> 00:05:52,320

3d printer that makes objects for us

125

00:05:55,990 --> 00:05:54,479

we've got incubators and refrigerators

126  
00:05:57,990 --> 00:05:56,000  
and freezers

127  
00:05:59,830 --> 00:05:58,000  
to store all our samples that we're

128  
00:06:02,790 --> 00:05:59,840  
collecting as part of the different

129  
00:06:06,390 --> 00:06:02,800  
scientific investigations

130  
00:06:09,189 --> 00:06:06,400  
but the the laboratories most of the

131  
00:06:10,550 --> 00:06:09,199  
u.s operating segment laboratory

132  
00:06:12,469 --> 00:06:10,560  
like this

133  
00:06:14,950 --> 00:06:12,479  
and they were designed to be somewhat

134  
00:06:17,670 --> 00:06:14,960  
interchangeable so a rack from this

135  
00:06:20,710 --> 00:06:17,680  
module can move to another module and we

136  
00:06:28,390 --> 00:06:20,720  
can outfit it based on the scientific

137  
00:06:34,629 --> 00:06:32,390  
peggy our viewer ivan actually asked us

138  
00:06:37,590 --> 00:06:34,639

let's speak more about how your body

139

00:06:40,150 --> 00:06:37,600

feels in zero gravity uh do you feel

140

00:06:42,629 --> 00:06:40,160

different with how you feel uh how you

141

00:06:44,950 --> 00:06:42,639

taste food uh how you smell different

142

00:06:52,070 --> 00:06:44,960

smells uh tell us a little bit more

143

00:06:58,070 --> 00:06:54,309

and i'm not quite sure i got that do i

144

00:07:00,870 --> 00:06:58,080

feel differently being in space um

145

00:07:09,350 --> 00:07:00,880

from a physiological perspective it's

146

00:07:13,830 --> 00:07:11,830

do i feel differently about food

147

00:07:19,189 --> 00:07:13,840

in space um

148

00:07:20,469 --> 00:07:19,199

here the food is is somewhat limited in

149

00:07:21,430 --> 00:07:20,479

selection

150

00:07:27,990 --> 00:07:21,440

so

151  
00:07:30,070 --> 00:07:28,000  
but

152  
00:07:35,189 --> 00:07:30,080  
the food that we do have is actually

153  
00:07:39,670 --> 00:07:37,589  
can you tell us a little bit more about

154  
00:07:42,070 --> 00:07:39,680  
what kind of experiments you're working

155  
00:07:45,029 --> 00:07:42,080  
right now should we expect any

156  
00:07:46,950 --> 00:07:45,039  
breakthrough anytime soon anytime soon

157  
00:07:48,390 --> 00:07:46,960  
and can you give us example of research

158  
00:07:50,070 --> 00:07:48,400  
that

159  
00:07:57,670 --> 00:07:50,080  
was made on the international space

160  
00:08:00,869 --> 00:07:59,270  
well it's interesting that you asked

161  
00:08:03,589 --> 00:08:00,879  
that question because research on the

162  
00:08:05,350 --> 00:08:03,599  
ground takes many many years and

163  
00:08:07,350 --> 00:08:05,360

that's actually the benefit of having

164

00:08:09,430 --> 00:08:07,360

this laboratory here is that we can

165

00:08:10,710 --> 00:08:09,440

conduct experiments over many different

166

00:08:12,790 --> 00:08:10,720

years

167

00:08:15,029 --> 00:08:12,800

for instance on my first expedition we

168

00:08:18,550 --> 00:08:15,039

were doing a plant growth study

169

00:08:21,589 --> 00:08:18,560

uh and the interesting thing that's been

170

00:08:24,309 --> 00:08:21,599

used and benefited uh people on earth is

171

00:08:27,510 --> 00:08:24,319

not necessarily the results of the plant

172

00:08:31,029 --> 00:08:27,520

growth experiment exactly but the

173

00:08:32,070 --> 00:08:31,039

filtration systems that they used in the

174

00:08:38,949 --> 00:08:32,080

the

175

00:08:40,949 --> 00:08:38,959

those filtration systems are now used in

176

00:08:44,710 --> 00:08:40,959

medical surgical rooms

177

00:08:46,070 --> 00:08:44,720

and also in wineries to try and keep out

178

00:08:48,790 --> 00:08:46,080

bacterial

179

00:08:52,150 --> 00:08:48,800

contamination in wine so

180

00:08:54,630 --> 00:08:52,160

you never know exactly what the spin-off

181

00:08:57,030 --> 00:08:54,640

that's going to be used that will apply

182

00:08:58,470 --> 00:08:57,040

to earth but there's always going to be

183

00:09:00,230 --> 00:08:58,480

something and that's

184

00:09:02,630 --> 00:09:00,240

that's the benefit of doing long

185

00:09:03,750 --> 00:09:02,640

duration research like what we're doing

186

00:09:05,350 --> 00:09:03,760

up here

187

00:09:07,350 --> 00:09:05,360

i i think

188

00:09:10,389 --> 00:09:07,360

there are so many for instance on our

189

00:09:13,030 --> 00:09:10,399

expedition we have approximately 280

190

00:09:14,710 --> 00:09:13,040

different investigations going on

191

00:09:16,310 --> 00:09:14,720

and it's

192

00:09:18,150 --> 00:09:16,320

some of them are controlled completely

193

00:09:19,430 --> 00:09:18,160

by the ground some of them we interact

194

00:09:22,870 --> 00:09:19,440

with heavily

195

00:09:25,430 --> 00:09:22,880

some of them are on ourselves personally

196

00:09:27,590 --> 00:09:25,440

so it's it's a huge variety of different

197

00:09:30,790 --> 00:09:27,600

types of investigations and i think

198

00:09:32,710 --> 00:09:30,800

there's a lot of potential application

199

00:09:34,870 --> 00:09:32,720

to the ground although just like

200

00:09:37,350 --> 00:09:34,880

research on the ground we can't always

201  
00:09:45,190 --> 00:09:37,360  
predict what that that that breakthrough

202  
00:09:50,150 --> 00:09:48,070  
i have two follow-up questions speaking

203  
00:09:52,870 --> 00:09:50,160  
about the filtration system speaking

204  
00:09:55,269 --> 00:09:52,880  
with president trump you said that there

205  
00:09:57,670 --> 00:09:55,279  
on international space station you treat

206  
00:10:00,389 --> 00:09:57,680  
green and treat water so it's possible

207  
00:10:02,870 --> 00:10:00,399  
to drink it again uh is it just an

208  
00:10:05,509 --> 00:10:02,880  
experiment or is it just a part of the

209  
00:10:09,110 --> 00:10:05,519  
regular life and i also i remember the

210  
00:10:12,949 --> 00:10:09,120  
scene from uh filmed with um

211  
00:10:14,710 --> 00:10:12,959  
matt damon about marx he used spoof to

212  
00:10:15,990 --> 00:10:14,720  
grow potato

213  
00:10:17,750 --> 00:10:16,000

is it how

214

00:10:18,949 --> 00:10:17,760

people will live in the future in

215

00:10:24,230 --> 00:10:18,959

different

216

00:10:29,110 --> 00:10:26,470

well if you think about how much water

217

00:10:31,590 --> 00:10:29,120

you need every day and you think about a

218

00:10:33,590 --> 00:10:31,600

trip to mars for instance and say we're

219

00:10:35,350 --> 00:10:33,600

going to go to mars and stay for a year

220

00:10:37,350 --> 00:10:35,360

and then come back

221

00:10:38,630 --> 00:10:37,360

we need three years worth of supply of

222

00:10:43,030 --> 00:10:38,640

water

223

00:10:44,550 --> 00:10:43,040

that's for every individual that's

224

00:10:47,750 --> 00:10:44,560

flying and you might want some

225

00:10:51,430 --> 00:10:47,760

contingency water just in case and so

226

00:10:54,630 --> 00:10:51,440

having that mass being able to recycle

227

00:10:57,750 --> 00:10:54,640

uh water is going to be a huge savings

228

00:11:00,069 --> 00:10:57,760

in our capability to outfit

229

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

vehicles for the future transport to

230

00:11:05,269 --> 00:11:03,120

mars and living on mars or any other

231

00:11:07,509 --> 00:11:05,279

planet that we might end up choosing or

232

00:11:09,110 --> 00:11:07,519

any other spacecraft that we might want

233

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

to be on so

234

00:11:13,990 --> 00:11:11,279

what we're doing here is trying to close

235

00:11:15,990 --> 00:11:14,000

our life support system such that we can

236

00:11:18,470 --> 00:11:16,000

recycle absolutely

237

00:11:21,190 --> 00:11:18,480

everything that we can right now in

238

00:11:24,710 --> 00:11:21,200

terms of water we're around 85 percent

239

00:11:27,509 --> 00:11:24,720

able to recycle all our all our water we

240

00:11:29,829 --> 00:11:27,519

still if in order to go to mars or

241

00:11:32,389 --> 00:11:29,839

to be very efficient when we go to mars

242

00:11:35,990 --> 00:11:32,399

we need to be at a hundred percent or

243

00:11:38,230 --> 00:11:36,000

very very close to that um that goal

244

00:11:40,310 --> 00:11:38,240

and here on the space station we're

245

00:11:43,190 --> 00:11:40,320

working on that goal we're practicing it

246

00:11:45,030 --> 00:11:43,200

every day since 2009

247

00:11:47,269 --> 00:11:45,040

we've had the urine processing and water

248

00:11:50,389 --> 00:11:47,279

processing system up here

249

00:11:52,790 --> 00:11:50,399

and have been actually uh processing

250

00:11:54,870 --> 00:11:52,800

urine and actually drinking it

251  
00:11:57,829 --> 00:11:54,880  
so it's uh

252  
00:11:59,509 --> 00:11:57,839  
i think an engineering experiment every

253  
00:12:00,870 --> 00:11:59,519  
day here on board the station we're

254  
00:12:03,190 --> 00:12:00,880  
learning things that are going to help

255  
00:12:06,150 --> 00:12:03,200  
us in those future exploration missions

256  
00:12:08,550 --> 00:12:06,160  
but also going to help us uh

257  
00:12:09,910 --> 00:12:08,560  
on the ground for instance in areas

258  
00:12:12,230 --> 00:12:09,920  
where

259  
00:12:15,269 --> 00:12:12,240  
you might have a lack of water or need

260  
00:12:18,230 --> 00:12:15,279  
to reclaim water we could develop

261  
00:12:20,550 --> 00:12:18,240  
urine processing or water processing

262  
00:12:23,030 --> 00:12:20,560  
systems that might aid people on the

263  
00:12:26,069 --> 00:12:23,040

ground as well so the research won't be

264

00:12:28,310 --> 00:12:26,079

just for space benefits but also

265

00:12:29,350 --> 00:12:28,320

has some potential for earth benefits as

266

00:12:31,910 --> 00:12:29,360

well

267

00:12:33,829 --> 00:12:31,920

so i i'm very happy that we are doing

268

00:12:35,910 --> 00:12:33,839

all this research here

269

00:12:37,350 --> 00:12:35,920

you know we take all our power is from

270

00:12:40,310 --> 00:12:37,360

the sun

271

00:12:43,509 --> 00:12:40,320

and we use that power to break apart the

272

00:12:44,310 --> 00:12:43,519

water to make our oxygen that we breathe

273

00:12:55,110 --> 00:12:44,320

the

274

00:12:57,269 --> 00:12:55,120

into water it's a it's a really cool

275

00:13:06,069 --> 00:12:57,279

process of

276

00:13:11,990 --> 00:13:09,190

you told about future possible mars

277

00:13:15,110 --> 00:13:12,000

mission or any other planet

278

00:13:17,269 --> 00:13:15,120

would you like to be part of let's say

279

00:13:21,829 --> 00:13:17,279

among the people who will be flying

280

00:13:26,710 --> 00:13:24,389

i absolutely would i think you know all

281

00:13:28,710 --> 00:13:26,720

of us that sign up to be astronauts are

282

00:13:30,310 --> 00:13:28,720

explorers and are interested in that

283

00:13:32,629 --> 00:13:30,320

kind of thing i know there are lots of

284

00:13:34,949 --> 00:13:32,639

people on earth doing different types of

285

00:13:37,590 --> 00:13:34,959

exploration type studies either

286

00:13:40,069 --> 00:13:37,600

underwater in the antarctic

287

00:13:43,110 --> 00:13:40,079

so i think that it's you know part of

288

00:13:50,389 --> 00:13:43,120

our who we are as people to explore

289

00:13:54,470 --> 00:13:52,310

uh let's speak a little bit more about

290

00:13:58,310 --> 00:13:54,480

everyday life on international space

291

00:14:00,790 --> 00:13:58,320

station um our audience asked us do you

292

00:14:03,189 --> 00:14:00,800

have time to follow the news from earth

293

00:14:07,189 --> 00:14:03,199

political economic culture

294

00:14:10,790 --> 00:14:07,199

even showbiz and if so how do you do

295

00:14:17,350 --> 00:14:10,800

that do you have like a lcd tv or use

296

00:14:21,750 --> 00:14:19,750

we have lots of computers on board and

297

00:14:23,269 --> 00:14:21,760

the ground sends up whatever our

298

00:14:26,230 --> 00:14:23,279

preferences are you know if we have

299

00:14:27,590 --> 00:14:26,240

sports bus they send up the sports games

300

00:14:30,470 --> 00:14:27,600

for

301  
00:14:33,590 --> 00:14:30,480  
whatever their favorite team is or

302  
00:14:35,990 --> 00:14:33,600  
your favorite tv shows or the news so

303  
00:14:38,790 --> 00:14:36,000  
it's whatever your preferences are that

304  
00:14:40,389 --> 00:14:38,800  
that they send up and and uh for

305  
00:14:42,470 --> 00:14:40,399  
entertainment for us

306  
00:14:45,590 --> 00:14:42,480  
which is great i love

307  
00:14:48,230 --> 00:14:45,600  
working out and watching the news or

308  
00:14:49,910 --> 00:14:48,240  
watching uh some tv shows while i'm

309  
00:14:51,750 --> 00:14:49,920  
actually working out it takes my mind

310  
00:14:57,189 --> 00:14:51,760  
off of the the

311  
00:15:00,870 --> 00:14:59,189  
uh what was the last time i mean what

312  
00:15:03,990 --> 00:15:00,880  
was the last thing you actually watched

313  
00:15:06,710 --> 00:15:04,000

i don't know cnn or some kind of uh

314

00:15:11,350 --> 00:15:06,720

sport broadcasting or

315

00:15:15,350 --> 00:15:13,030

uh this morning when i was working out

316

00:15:19,670 --> 00:15:15,360

on a red i was watching uh the nightly

317

00:15:24,629 --> 00:15:22,069

oh that's interesting uh do you guys

318

00:15:27,509 --> 00:15:24,639

discuss politics in

319

00:15:29,590 --> 00:15:27,519

international space station and space

320

00:15:30,389 --> 00:15:29,600

of course i guess you understand that we

321

00:15:32,550 --> 00:15:30,399

have

322

00:15:34,389 --> 00:15:32,560

uh let's say tensions between russia and

323

00:15:38,829 --> 00:15:34,399

the united states do you guys discuss

324

00:15:43,990 --> 00:15:41,829

that i think up here our priority is

325

00:15:45,910 --> 00:15:44,000

being one team and

326

00:15:48,710 --> 00:15:45,920

so i think we don't

327

00:15:52,870 --> 00:15:48,720

discuss things that have the potential

328

00:15:54,710 --> 00:15:52,880

uh for that kind of political reaction

329

00:15:56,550 --> 00:15:54,720

we we recognize that what we're doing

330

00:15:58,069 --> 00:15:56,560

here is very special

331

00:15:59,110 --> 00:15:58,079

uh

332

00:16:00,310 --> 00:15:59,120

you know

333

00:16:01,110 --> 00:16:00,320

and unique

334

00:16:02,710 --> 00:16:01,120

uh

335

00:16:08,870 --> 00:16:02,720

you know this peaceful

336

00:16:14,790 --> 00:16:11,110

i have very specific question from our

337

00:16:17,269 --> 00:16:14,800

audience a lot of people believe in ufo

338

00:16:20,389 --> 00:16:17,279

do you have any special instructions in

339

00:16:22,389 --> 00:16:20,399

case you see something like unidentified

340

00:16:25,430 --> 00:16:22,399

flying object outside the international

341

00:16:27,030 --> 00:16:25,440

space station and would you like to meet

342

00:16:30,069 --> 00:16:27,040

some of this

343

00:16:34,550 --> 00:16:30,079

let's say green people green

344

00:16:40,629 --> 00:16:36,870

well actually there are no special

345

00:16:42,230 --> 00:16:40,639

instructions um but i do think it it

346

00:16:43,509 --> 00:16:42,240

would be very

347

00:16:45,990 --> 00:16:43,519

interesting

348

00:16:51,670 --> 00:16:46,000

i would love to meet uh people from

349

00:16:57,990 --> 00:16:54,710

uh peggy obviously you guys there uh

350

00:17:00,710 --> 00:16:58,000

have internet and space and uh you guys

351  
00:17:03,509 --> 00:17:00,720  
very active on social media on facebook

352  
00:17:05,510 --> 00:17:03,519  
instagram and youtube how does it work

353  
00:17:08,470 --> 00:17:05,520  
do you have just like a simple gadget

354  
00:17:11,669 --> 00:17:08,480  
like smartphones or like we all have

355  
00:17:13,909 --> 00:17:11,679  
here uh on the earth and what about

356  
00:17:18,150 --> 00:17:13,919  
wi-fi do you have like a regular wi-fi

357  
00:17:22,309 --> 00:17:20,789  
we have a special networks up here that

358  
00:17:28,390 --> 00:17:22,319  
we can access

359  
00:17:30,310 --> 00:17:28,400  
extremely slow when we have a particular

360  
00:17:32,710 --> 00:17:30,320  
type of

361  
00:17:35,029 --> 00:17:32,720  
satellite coverage we can access the

362  
00:17:37,430 --> 00:17:35,039  
internet but it's extremely slow in

363  
00:17:39,909 --> 00:17:37,440

general we tend to

364

00:17:42,310 --> 00:17:39,919

provide our inputs to be posted by

365

00:17:44,630 --> 00:17:42,320

somebody on the ground so we we give the

366

00:17:47,350 --> 00:17:44,640

input send them down to somebody because

367

00:17:49,190 --> 00:17:47,360

our email gets synchronized every time

368

00:17:53,190 --> 00:17:49,200

we have a

369

00:17:55,510 --> 00:17:53,200

ku a type of antenna coverage that can

370

00:17:58,310 --> 00:17:55,520

delay can get that information down to

371

00:18:00,230 --> 00:17:58,320

the ground so that seems to be the most

372

00:18:01,590 --> 00:18:00,240

efficient at this point in time since

373

00:18:08,150 --> 00:18:01,600

our our

374

00:18:13,830 --> 00:18:10,710

uh peggy i have a personal questions you

375

00:18:16,789 --> 00:18:13,840

are you have so many records you were

376

00:18:18,390 --> 00:18:16,799

twice commander of the space station the

377

00:18:21,270 --> 00:18:18,400

commander of the mission

378

00:18:24,710 --> 00:18:21,280

uh expedition um you

379

00:18:27,350 --> 00:18:24,720

you will be you break so many records

380

00:18:29,140 --> 00:18:27,360

do you feel like you break the glass

381

00:18:35,110 --> 00:18:29,150

ceiling for women

382

00:18:39,750 --> 00:18:37,270

you know the the records to me i think

383

00:18:42,390 --> 00:18:39,760

just represent where we are

384

00:18:44,870 --> 00:18:42,400

in the space program and being able to

385

00:18:47,110 --> 00:18:44,880

represent nasa as a part of that i think

386

00:18:50,310 --> 00:18:47,120

is very special for me

387

00:18:51,750 --> 00:18:50,320

and i i'm thrilled to have had these

388

00:18:54,950 --> 00:18:51,760

opportunities

389

00:18:57,029 --> 00:18:54,960

and i am sure that if we are successful

390

00:18:58,070 --> 00:18:57,039

in our programs that my records will be

391

00:19:00,710 --> 00:18:58,080

broken

392

00:19:02,230 --> 00:19:00,720

and that's fine that's what it's about

393

00:19:06,150 --> 00:19:02,240

every day we should be setting new

394

00:19:08,070 --> 00:19:06,160

records looking toward the next step and

395

00:19:39,190 --> 00:19:08,080

expanding our capabilities and our

396

00:19:44,789 --> 00:19:41,270

station this is houston acr that

397

00:19:48,470 --> 00:19:46,549

thank you all participants with voice of