



1
00:00:08,810 --> 00:00:07,280
station this is CNBC do you hear me hey

2
00:00:14,980 --> 00:00:08,820
we have you loud and clear welcome

3
00:00:14,990 --> 00:00:27,130
thank you great to speak with you

4
00:00:38,530 --> 00:00:32,350
station are we ready to proceed we are

5
00:00:40,360 --> 00:00:38,540
ready okay fantastic

6
00:00:42,430 --> 00:00:40,370
captain Scott Kelly and Russian

7
00:00:43,360 --> 00:00:42,440
cosmonaut Mikhail Kornienko thank you so

8
00:00:44,979 --> 00:00:43,370
much for joining us

9
00:00:47,439 --> 00:00:44,989
I wanted to first ask about Pluto

10
00:00:49,150 --> 00:00:47,449
there's such a fascination with Pluto

11
00:00:52,030 --> 00:00:49,160
what are your hopes in terms of what

12
00:00:57,450 --> 00:00:52,040
Pluto could do to spur interest in space

13
00:01:02,700 --> 00:01:00,430

you know I think this our country you

14

00:01:06,940 --> 00:01:02,710

know has a great partnership between the

15

00:01:11,620 --> 00:01:06,950

unmanned or you know on you know tended

16

00:01:13,120 --> 00:01:11,630

vehicles and and human spaceflight and

17

00:01:15,520 --> 00:01:13,130

you know and I think in some ways they

18

00:01:17,770 --> 00:01:15,530

feed off of one another and you know

19

00:01:20,109 --> 00:01:17,780

encourage interest in one another you

20

00:01:22,719 --> 00:01:20,119

know if we're ever gonna go to Mars you

21

00:01:24,609 --> 00:01:22,729

know the all these different spacecraft

22

00:01:27,760 --> 00:01:24,619

we've had go to Mars are definitely a

23

00:01:29,889 --> 00:01:27,770

requirement for future human visit so I

24

00:01:31,420 --> 00:01:29,899

hope you know people's fascination with

25

00:01:34,060 --> 00:01:31,430

Pluto and the success of this mission

26

00:01:36,550 --> 00:01:34,070

and the difficulty in you know going

27

00:01:38,800 --> 00:01:36,560

that far away for that many years is

28

00:01:45,219 --> 00:01:38,810

something that increases interest in the

29

00:01:46,810 --> 00:01:45,229

space program in general captain Kelly

30

00:01:49,060 --> 00:01:46,820

this question is for you budget cuts

31

00:01:51,999 --> 00:01:49,070

have certainly taken a toll on the

32

00:01:54,819 --> 00:01:52,009

funding of NASA and in fact there's been

33

00:01:57,069 --> 00:01:54,829

more of a role for the private sector

34

00:01:58,690 --> 00:01:57,079

for the commercial sector to play in our

35

00:02:00,580 --> 00:01:58,700

space program in fact NASA just

36

00:02:02,530 --> 00:02:00,590

announcing that the new astronauts will

37

00:02:04,719 --> 00:02:02,540

fly in the first commercially owned and

38

00:02:06,969 --> 00:02:04,729

commercially operated a space shuttle

39

00:02:08,979 --> 00:02:06,979

what do you see in terms of the role of

40

00:02:14,470 --> 00:02:08,989

private sector in space in the United

41

00:02:16,650 --> 00:02:14,480

States you know I think our space

42

00:02:21,670 --> 00:02:16,660

program is you know a continuously

43

00:02:23,610 --> 00:02:21,680

evolving thing and you know whereas some

44

00:02:26,740 --> 00:02:23,620

of these companies like Boeing and and

45

00:02:28,569 --> 00:02:26,750

and SpaceX that will build these first

46

00:02:31,090 --> 00:02:28,579

two caboose commercial vehicles our

47

00:02:33,360 --> 00:02:31,100

commercial companies you know likewise

48

00:02:35,589 --> 00:02:33,370

Rockwell that built a space shuttle is a

49

00:02:37,720 --> 00:02:35,599

commercial company and and we're just

50

00:02:40,000 --> 00:02:37,730

managing it a little bit differently and

51
00:02:42,530 --> 00:02:40,010
and by doing this

52
00:02:45,680 --> 00:02:42,540
you know having a different level of

53
00:02:48,380 --> 00:02:45,690
management and an oversight you know

54
00:02:50,540 --> 00:02:48,390
hopefully will reduce costs for flying

55
00:02:53,300 --> 00:02:50,550
humans into low-earth orbit which will

56
00:02:56,479 --> 00:02:53,310
you know also hopefully allow NASA to

57
00:02:58,670 --> 00:02:56,489
explore further you know with the goal

58
00:03:00,530 --> 00:02:58,680
of eventually going to Mars and behind

59
00:03:03,350 --> 00:03:00,540
so you know I just think it's a

60
00:03:05,540 --> 00:03:03,360
continuously evolving process and you

61
00:03:07,670 --> 00:03:05,550
know the commercial commercial companies

62
00:03:09,620 --> 00:03:07,680
have have shown that they could possibly

63
00:03:11,570 --> 00:03:09,630

do something cheaper than the government

64

00:03:14,000 --> 00:03:11,580

which will give us me more resources to

65

00:03:15,559 --> 00:03:14,010

do more you know I think as long as we

66

00:03:22,009 --> 00:03:15,569

can do this safely I think it's a good

67

00:03:24,470 --> 00:03:22,019

thing cosmonaut Kornienko do you think

68

00:03:27,430 --> 00:03:24,480

we'll ever see private space travel so

69

00:03:30,229 --> 00:03:27,440

the average citizen going up in space

70

00:03:33,680 --> 00:03:30,239

approach Java scholarship Agosto vision

71

00:03:41,809 --> 00:03:33,690

we dine with cosmic tourists of Booty

72

00:03:44,620 --> 00:03:41,819

watts just macaws Mishka Sierra hooray

73

00:03:48,050 --> 00:03:44,630

because mr. Easter we have already seen

74

00:03:51,110 --> 00:03:48,060

private space travels and I believe for

75

00:03:53,420 --> 00:03:51,120

commercial companies it's a very good

76

00:03:56,300 --> 00:03:53,430

experience space exploration is

77

00:03:58,520 --> 00:03:56,310

constantly developing and I believe this

78

00:04:01,460 --> 00:03:58,530

is one of those areas where it should

79

00:04:08,390 --> 00:04:01,470

keep developing and I believe that it

80

00:04:10,610 --> 00:04:08,400

will happen very soon captain Kelly I'm

81

00:04:12,050 --> 00:04:10,620

curious to the average person traveling

82

00:04:14,680 --> 00:04:12,060

in space and living in space as a

83

00:04:17,509 --> 00:04:14,690

mystery how important her everyday

84

00:04:24,200 --> 00:04:17,519

technology is like the iPad to you in

85

00:04:26,210 --> 00:04:24,210

what you do you know the last time I was

86

00:04:29,000 --> 00:04:26,220

up here about four and a half years ago

87

00:04:31,909 --> 00:04:29,010

we didn't have iPads we did most of our

88

00:04:33,740 --> 00:04:31,919

work off of these these laptops which

89

00:04:36,020 --> 00:04:33,750

are you know very effective but they're

90

00:04:37,909 --> 00:04:36,030

not very portable you know something

91

00:04:41,090 --> 00:04:37,919

like the iPad that we have now allows us

92

00:04:43,610 --> 00:04:41,100

to access our procedures and other what

93

00:04:46,610 --> 00:04:43,620

we call operational products that we

94

00:04:49,330 --> 00:04:46,620

might need to complete a task in a much

95

00:04:51,770 --> 00:04:49,340

more portable way so I think as as we've

96

00:04:53,360 --> 00:04:51,780

you know experienced on the ground with

97

00:04:55,879 --> 00:04:53,370

you know smartphones and

98

00:04:58,610 --> 00:04:55,889

tablets it provides you know just more

99

00:05:00,770 --> 00:04:58,620

portability which means you know more

100

00:05:02,960 --> 00:05:00,780

efficiency we have the same thing here

101
00:05:04,969 --> 00:05:02,970
on the space station and the iPads great

102
00:05:06,710 --> 00:05:04,979
you can look at a procedure while you're

103
00:05:11,030 --> 00:05:06,720
floating behind one of these you know

104
00:05:17,719 --> 00:05:11,040
large science racks or something and it

105
00:05:19,490 --> 00:05:17,729
it just makes us more efficient do you

106
00:05:21,710 --> 00:05:19,500
have internet in space what's that like

107
00:05:29,360 --> 00:05:21,720
compared to how it operates here in the

108
00:05:34,159 --> 00:05:29,370
US well it's it's kind of like a cross

109
00:05:36,050 --> 00:05:34,169
between old dial-up and you know what

110
00:05:39,110 --> 00:05:36,060
you might have now with a very high

111
00:05:42,140 --> 00:05:39,120
speed internet it's not you know it's

112
00:05:44,900 --> 00:05:42,150
not ideal but and it and it varies from

113
00:05:47,750 --> 00:05:44,910

time to time and how well it works but

114

00:05:52,279 --> 00:05:47,760

it is it's somewhat effective it allows

115

00:05:55,159 --> 00:05:52,289

us to you know access you know webpages

116

00:05:56,779 --> 00:05:55,169

your personal email things like that it

117

00:05:58,370 --> 00:05:56,789

doesn't provide you with the speed like

118

00:06:01,580 --> 00:05:58,380

for instance you couldn't watch a movie

119

00:06:04,610 --> 00:06:01,590

on it but you can you know you can post

120

00:06:07,100 --> 00:06:04,620

things on social media not videos but

121

00:06:14,120 --> 00:06:07,110

pictures pretty effectively so it's a

122

00:06:16,129 --> 00:06:14,130

pretty handy capability we have are you

123

00:06:18,200 --> 00:06:16,139

guys tweeting from space I mean what are

124

00:06:25,270 --> 00:06:18,210

the some of the other things that you're

125

00:06:32,750 --> 00:06:28,490

let's see well I use it for a bunch of

126
00:06:35,839 --> 00:06:32,760
things certainly email social media type

127
00:06:37,640 --> 00:06:35,849
stuff with you know Twitter I put things

128
00:06:40,689 --> 00:06:37,650
on Twitter and Instagram and that kind

129
00:06:43,909 --> 00:06:40,699
of stuff I actually do some banking I

130
00:06:46,310 --> 00:06:43,919
access my you know online bank accounts

131
00:06:50,360 --> 00:06:46,320
believe it or not I bought gifts on the

132
00:06:53,240 --> 00:06:50,370
the Internet up here airline tickets the

133
00:06:56,180 --> 00:06:53,250
last time I was here for family members

134
00:06:58,400 --> 00:06:56,190
so it's pretty handy so yeah you have to

135
00:07:02,450 --> 00:06:58,410
be patient sometimes and you have to be

136
00:07:05,180 --> 00:07:02,460
be flexible and and you know access it

137
00:07:06,620 --> 00:07:05,190
when we have the comm coverage because

138
00:07:10,340 --> 00:07:06,630

we don't always have it

139

00:07:13,160 --> 00:07:10,350

about 45 to 50 minutes an hour sometimes

140

00:07:20,300 --> 00:07:13,170

longer we have the capability to get on

141

00:07:22,160 --> 00:07:20,310

the internet on the ground and what kind

142

00:07:27,110 --> 00:07:22,170

of shows do you watch from the

143

00:07:28,300 --> 00:07:27,120

International Space Station you know

144

00:07:31,190 --> 00:07:28,310

they're great we have these

145

00:07:34,670 --> 00:07:31,200

psychological support folks that support

146

00:07:37,960 --> 00:07:34,680

us up here and they send us you know all

147

00:07:40,250 --> 00:07:37,970

different kinds of television shows

148

00:07:43,540 --> 00:07:40,260

whatever you know if we want I was

149

00:07:46,610 --> 00:07:43,550

recently watching a game of Thrones and

150

00:07:48,560 --> 00:07:46,620

better call Saul but those both of those

151
00:07:50,540 --> 00:07:48,570
seasons ended so I'm not really watching

152
00:07:53,720 --> 00:07:50,550
any kind of series we don't have a whole

153
00:07:56,270 --> 00:07:53,730
lot of time to do that but we I would

154
00:07:58,940 --> 00:07:56,280
watch it when I'm exercising I don't

155
00:08:01,400 --> 00:07:58,950
really watch much television otherwise

156
00:08:04,030 --> 00:08:01,410
except for the news I'll have actually

157
00:08:07,040 --> 00:08:04,040
have live news playing most of the time

158
00:08:10,250 --> 00:08:07,050
in a couple of the modules that we can

159
00:08:13,010 --> 00:08:10,260
you know watch it live but you know TV

160
00:08:14,390 --> 00:08:13,020
shows just just those two and some you

161
00:08:17,180 --> 00:08:14,400
know sporting events I was watching the

162
00:08:17,960 --> 00:08:17,190
British Open yesterday while I was while

163
00:08:20,060 --> 00:08:17,970

I was working

164

00:08:21,470 --> 00:08:20,070

which was great trying to follow that

165

00:08:28,430 --> 00:08:21,480

but I missed the very end because we

166

00:08:30,650 --> 00:08:28,440

lost the satellite coverage oh I won't

167

00:08:32,870 --> 00:08:30,660

tell you have it in last question here I

168

00:08:34,610 --> 00:08:32,880

don't know if you trade we are a trading

169

00:08:42,320 --> 00:08:34,620

show a stock trading show do you have a

170

00:09:06,820 --> 00:08:42,330

question for one of our traders you got

171

00:09:11,680 --> 00:09:10,300

I can't I can't hear him I could hear a

172

00:09:14,080 --> 00:09:11,690

little whispering but that was the

173

00:09:15,640 --> 00:09:14,090

perfect setup for the buy low sell high

174

00:09:22,810 --> 00:09:15,650

answer that's what I thought I was going

175

00:09:25,360 --> 00:09:22,820

to get station this is Houston ACR thank

176

00:09:27,400 --> 00:09:25,370

you that concludes the CNBC portion of

177

00:09:33,640 --> 00:09:27,410

the event please stand by for a voice

178

00:09:35,500 --> 00:09:33,650

check from BBC station this is Richard

179

00:09:40,630 --> 00:09:35,510

hauling him for the BBC how do you hear

180

00:09:42,780 --> 00:09:40,640

me I have you loud and clear welcome

181

00:09:45,100 --> 00:09:42,790

aboard the International Space Station

182

00:09:48,160 --> 00:09:45,110

thank you so much you're both looking

183

00:09:50,920 --> 00:09:48,170

very fit and very good after four months

184

00:09:57,400 --> 00:09:50,930

in space I wondered how you were both

185

00:09:59,620 --> 00:09:57,410

finding though the one-year mission you

186

00:10:01,780 --> 00:09:59,630

know so far so good you know being up

187

00:10:03,960 --> 00:10:01,790

here for a year is a long time but you

188

00:10:06,750 --> 00:10:03,970

know we'd both flown previously so we

189

00:10:09,610 --> 00:10:06,760

sort of knew what we were getting into

190

00:10:12,610 --> 00:10:09,620

the space station is an amazing place we

191

00:10:15,670 --> 00:10:12,620

have a you know great facilities and a

192

00:10:18,130 --> 00:10:15,680

lot of capability here so you know I

193

00:10:20,140 --> 00:10:18,140

think we're both and just speaking for

194

00:10:22,990 --> 00:10:20,150

Misha a little bit both both optimistic

195

00:10:26,170 --> 00:10:23,000

that you know we got over 200 days ahead

196

00:10:29,910 --> 00:10:26,180

of us but those will be you know smooth

197

00:10:40,690 --> 00:10:32,590

okay so we don't we take that one pilot

198

00:10:43,440 --> 00:10:40,700

doctor class Malaysia Malaika I think

199

00:10:47,080 --> 00:10:43,450

that space makes you look younger

200

00:10:51,910 --> 00:10:47,090

it's a joke of course but at the same

201
00:10:55,000 --> 00:10:51,920
time we are exercising twice a day and I

202
00:10:59,010 --> 00:10:55,010
can only confirm what Scott has just

203
00:11:02,350 --> 00:10:59,020
said we are very optimistic and I

204
00:11:05,860 --> 00:11:02,360
believe that after my one-year mission I

205
00:11:08,530 --> 00:11:05,870
will be even in better shape than before

206
00:11:12,670 --> 00:11:08,540
my mission since we're exercising

207
00:11:15,220 --> 00:11:12,680
regularly and I hope that our mission

208
00:11:18,130 --> 00:11:15,230
will be very beneficial for those who

209
00:11:20,460 --> 00:11:18,140
will follow us and we are very

210
00:11:26,340 --> 00:11:23,850
I gather that before the mission you

211
00:11:32,040 --> 00:11:26,350
both got on well with each other are you

212
00:11:34,050 --> 00:11:32,050
still friends absolutely even more so

213
00:11:36,950 --> 00:11:34,060

now I mean you spend a lot of time up

214

00:11:39,150 --> 00:11:36,960

here together and that just builds bonds

215

00:11:42,270 --> 00:11:39,160

you know between us we have some new

216

00:11:44,190 --> 00:11:42,280

crew members coming up here you know

217

00:11:45,090 --> 00:11:44,200

Thursday morning that we look forward to

218

00:11:47,310 --> 00:11:45,100

seeing them too

219

00:11:49,260 --> 00:11:47,320

it's a you know it's a great place the

220

00:11:51,210 --> 00:11:49,270

Space Station to build relationships and

221

00:11:53,340 --> 00:11:51,220

international partnerships that's one of

222

00:11:55,140 --> 00:11:53,350

the great things about this Space

223

00:12:05,550 --> 00:11:55,150

Station is the international component

224

00:12:14,690 --> 00:12:05,560

to it so we're are still friends and

225

00:12:20,700 --> 00:12:18,150

there any particular aspects of this

226

00:12:23,210 --> 00:12:20,710

flight that differ from the usual

227

00:12:26,610 --> 00:12:23,220

missions obviously you've got a lot more

228

00:12:32,730 --> 00:12:26,620

going on it's a lot more about you this

229

00:12:34,950 --> 00:12:32,740

time and how you are performing you know

230

00:12:37,590 --> 00:12:34,960

because it's somewhat unique in regards

231

00:12:39,570 --> 00:12:37,600

to the duration you know more than we've

232

00:12:41,630 --> 00:12:39,580

done previously on the space station I

233

00:12:46,320 --> 00:12:41,640

think you know if you compare our

234

00:12:48,120 --> 00:12:46,330

involvement in in the human subject type

235

00:12:51,330 --> 00:12:48,130

of experiments Misha and I certainly

236

00:12:53,250 --> 00:12:51,340

have more of that than I think maybe

237

00:12:56,070 --> 00:12:53,260

you're our average crew member might so

238

00:12:58,650 --> 00:12:56,080

you know there's that aspect of it you

239

00:13:01,290 --> 00:12:58,660

know being up here for this length of

240

00:13:03,030 --> 00:13:01,300

time also has you involved in more

241

00:13:06,180 --> 00:13:03,040

things that we do on the space station

242

00:13:08,130 --> 00:13:06,190

other science experiments and and such

243

00:13:09,960 --> 00:13:08,140

we'll throughout the course of the year

244

00:13:12,090 --> 00:13:09,970

here we'll have 400 different science

245

00:13:13,820 --> 00:13:12,100

experiments going on so you know our

246

00:13:16,740 --> 00:13:13,830

involvement will be you know bigger than

247

00:13:20,760 --> 00:13:16,750

let's say someone that here is here for

248

00:13:22,470 --> 00:13:20,770

a a six month stay but you know on the

249

00:13:24,780 --> 00:13:22,480

surface though you know from a

250

00:13:26,100 --> 00:13:24,790

day-to-day perspective our lives here

251
00:13:28,180 --> 00:13:26,110
are no different than any of the other

252
00:13:31,290 --> 00:13:28,190
crew members

253
00:13:35,619 --> 00:13:31,300
and when you're working together

254
00:13:38,199 --> 00:13:35,629
throughout this year what does that show

255
00:13:40,180 --> 00:13:38,209
us about working together on Earth I

256
00:13:47,350 --> 00:13:40,190
mean is what you're doing in space

257
00:13:50,590 --> 00:13:47,360
something we can learn from I think so

258
00:13:53,139 --> 00:13:50,600
you know this space station this neutral

259
00:13:54,879 --> 00:13:53,149
territory so to speak in a very very

260
00:13:56,980 --> 00:13:54,889
challenging environment gives us the

261
00:13:59,499 --> 00:13:56,990
opportunity to to work on something

262
00:14:01,629 --> 00:13:59,509
that's you know very important very

263
00:14:05,050 --> 00:14:01,639

difficult you know work with this

264

00:14:07,540 --> 00:14:05,060

international partnership and you know

265

00:14:09,460 --> 00:14:07,550

we've been doing this for over 15 years

266

00:14:11,350 --> 00:14:09,470

now and it's you know one of the great

267

00:14:13,449 --> 00:14:11,360

successes of the space station we're

268

00:14:17,499 --> 00:14:13,459

getting great results now from the

269

00:14:18,610 --> 00:14:17,509

science we do so you know there's I

270

00:14:22,929 --> 00:14:18,620

think there's a lot to be learned from

271

00:14:24,939 --> 00:14:22,939

this in in many many different ways and

272

00:14:25,420 --> 00:14:24,949

scores have you learnt anything from the

273

00:14:31,329 --> 00:14:25,430

Russians

274

00:14:32,259 --> 00:14:31,339

I learned stuff from these guys all the

275

00:14:36,009 --> 00:14:32,269

time you know they have a lot of

276

00:14:38,590 --> 00:14:36,019

experience their long-duration

277

00:14:42,429 --> 00:14:38,600

spaceflight experience is more extensive

278

00:14:43,929 --> 00:14:42,439

than ours they do a lot some things

279

00:14:47,259 --> 00:14:43,939

different you know they're they're more

280

00:14:49,240 --> 00:14:47,269

practical they you know certainly their

281

00:14:52,960 --> 00:14:49,250

budget is less than than what nASA has

282

00:14:55,960 --> 00:14:52,970

so it's it's great to see what they they

283

00:14:59,379 --> 00:14:55,970

can achieve with more limited resources

284

00:15:00,850 --> 00:14:59,389

than we have it's quite impressive I'm

285

00:15:03,420 --> 00:15:00,860

Michele have you learned anything from

286

00:15:06,519 --> 00:15:03,430

working with the Americans Makaha

287

00:15:15,040 --> 00:15:06,529

Chili's ready Mira boots Americans

288

00:15:17,949 --> 00:15:15,050

keymaster an afternoon I have to say

289

00:15:20,139 --> 00:15:17,959

there is a lot to learn from Americans

290

00:15:22,329 --> 00:15:20,149

first of all they're very specific

291

00:15:24,540 --> 00:15:22,339

they're very thorough especially in

292

00:15:27,699 --> 00:15:24,550

performing their tasks and objectives

293

00:15:30,100 --> 00:15:27,709

and I believe there's still a lot to

294

00:15:33,269 --> 00:15:30,110

learn from our partners and we are

295

00:15:37,499 --> 00:15:33,279

learning from each other every day

296

00:15:41,880 --> 00:15:37,509

for example I'm performing all my

297

00:15:44,970 --> 00:15:41,890

activities in this say

298

00:15:48,060 --> 00:15:44,980

efficient manner in the very precise and

299

00:15:51,750 --> 00:15:48,070

accurate manner and I believe this is

300

00:15:55,410 --> 00:15:51,760

very important here in space they're

301
00:16:00,170 --> 00:15:55,420
very friendly and I cannot say that I

302
00:16:02,910 --> 00:16:00,180
was angry or gloomy earlier but our

303
00:16:05,460 --> 00:16:02,920
American friends are very friendly so

304
00:16:08,850 --> 00:16:05,470
we're learning that from them as well so

305
00:16:11,610 --> 00:16:08,860
in brief I can say that yes we have to

306
00:16:12,540 --> 00:16:11,620
learn from each other well that's that's

307
00:16:15,600 --> 00:16:12,550
good to hear

308
00:16:18,509 --> 00:16:15,610
I have some questions from BBC future

309
00:16:22,170 --> 00:16:18,519
readers and I have one here from Liam

310
00:16:24,740 --> 00:16:22,180
Montel who asked has your spaceflight

311
00:16:32,550 --> 00:16:24,750
altered in any way your view of

312
00:16:35,579 --> 00:16:32,560
humanity's role on our planet Earth well

313
00:16:40,590 --> 00:16:35,589

you know every time I fly in space and

314

00:16:43,590 --> 00:16:40,600

I'm struck by how small it makes the

315

00:16:47,579 --> 00:16:43,600

earth appear and how it makes us seem

316

00:16:50,400 --> 00:16:47,589

like we're all citizens of one place not

317

00:16:52,740 --> 00:16:50,410

any particular countries you know you

318

00:16:54,150 --> 00:16:52,750

don't see a lot of the you know you

319

00:16:55,980 --> 00:16:54,160

don't see political borders that are

320

00:16:58,170 --> 00:16:55,990

drawn on maps you see physical borders

321

00:17:00,360 --> 00:16:58,180

only so it really gives you the sense

322

00:17:03,780 --> 00:17:00,370

that we're all you know big one big part

323

00:17:04,829 --> 00:17:03,790

of one big team team earth and you know

324

00:17:07,799 --> 00:17:04,839

the other thing you noticed is the

325

00:17:10,949 --> 00:17:07,809

atmosphere is very very thin looks very

326

00:17:12,929 --> 00:17:10,959

fragile so you know for me that's that

327

00:17:17,549 --> 00:17:12,939

those are the two main things that you

328

00:17:21,870 --> 00:17:17,559

know I find over the course of my career

329

00:17:26,159 --> 00:17:21,880

here how my perspective has changed and

330

00:17:28,409 --> 00:17:26,169

I wondered whether your training has

331

00:17:30,060 --> 00:17:28,419

fully prepared you for what you've

332

00:17:33,090 --> 00:17:30,070

encountered so far and that's a question

333

00:17:38,820 --> 00:17:33,100

from Katherine Thoreau well another BBC

334

00:17:41,070 --> 00:17:38,830

Future reader yeah absolutely we have a

335

00:17:43,640 --> 00:17:41,080

great team on the ground international

336

00:17:48,270 --> 00:17:43,650

team not only in the US but in Russia

337

00:17:51,360 --> 00:17:48,280

Japan in Europe Canada that trained us

338

00:17:52,650 --> 00:17:51,370

for many years for these missions so you

339

00:17:55,320 --> 00:17:52,660

know although there's you know a few

340

00:17:56,910 --> 00:17:55,330

things you don't really realize

341

00:17:59,000 --> 00:17:56,920

until you get up here and you can't

342

00:18:02,490 --> 00:17:59,010

really simulate well the the

343

00:18:04,650 --> 00:18:02,500

microgravity environment on earth you

344

00:18:07,430 --> 00:18:04,660

know by and large we are very well

345

00:18:09,480 --> 00:18:07,440

trained and you know and that's the

346

00:18:12,030 --> 00:18:09,490

because of the great people we have

347

00:18:14,100 --> 00:18:12,040

preparing us on the ground does it

348

00:18:20,310 --> 00:18:14,110

change your dreams that's all when you

349

00:18:22,500 --> 00:18:20,320

when you sleep about the earth and an

350

00:18:24,030 --> 00:18:22,510

interesting dream last night that I

351
00:18:30,480 --> 00:18:24,040
remember but I'm not going to share that

352
00:18:33,720 --> 00:18:30,490
with you in any case I was in any case I

353
00:18:35,730 --> 00:18:33,730
was asked after my last flight a dream

354
00:18:37,830 --> 00:18:35,740
whether you're on earth or you're in

355
00:18:41,370 --> 00:18:37,840
space and I actually couldn't remember

356
00:18:42,780 --> 00:18:41,380
so now I write my dreams down and most

357
00:18:44,700 --> 00:18:42,790
of the time they're about being on earth

358
00:18:46,470 --> 00:18:44,710
but a lot of times they're about being

359
00:18:49,280 --> 00:18:46,480
on this you know sometime they're about

360
00:18:51,750 --> 00:18:49,290
being on the space station too so it's

361
00:18:55,350 --> 00:18:51,760
you know like a lot of people's dreams

362
00:18:57,180 --> 00:18:55,360
are pretty weird I've been asked to ask

363
00:18:59,100 --> 00:18:57,190

you to just demonstrate some

364

00:19:00,660 --> 00:18:59,110

weightlessness we've seen you pass the

365

00:19:02,280 --> 00:19:00,670

microphone backwards and forwards and

366

00:19:16,279 --> 00:19:02,290

you're both floating around but just

367

00:19:16,289 --> 00:19:23,539

we're like we're like circus performers

368

00:19:29,549 --> 00:19:26,639

thank you both very much for your time

369

00:19:33,419 --> 00:19:29,559

and good luck with the rest of your

370

00:19:36,989 --> 00:19:33,429

mission and thank you our pleasure

371

00:19:39,629 --> 00:19:36,999

enjoyed talking with you today station