



HOUSTON | WE HAVE A
PODCAST



1
00:00:27,509 --> 00:00:14,470

[Music]

2
00:00:29,349 --> 00:00:27,519

hello nasa tv facebook live ustream

3
00:00:31,669 --> 00:00:29,359

wherever you are watching around the

4
00:00:34,709 --> 00:00:31,679

world welcome to the very first live

5
00:00:36,950 --> 00:00:34,719

recording of houston we have a podcast

6
00:00:38,470 --> 00:00:36,960

uh this if you're unfamiliar with the

7
00:00:40,630 --> 00:00:38,480

podcast this is where we bring in the

8
00:00:42,389 --> 00:00:40,640

experts nasa scientists engineers

9
00:00:44,069 --> 00:00:42,399

astronauts all the folks that have the

10
00:00:45,590 --> 00:00:44,079

coolest information the stuff you really

11
00:00:47,750 --> 00:00:45,600

want to know right on the show and talk

12
00:00:49,430 --> 00:00:47,760

about everything nasa and today is the

13
00:00:51,189 --> 00:00:49,440

very first live episode the very first

14

00:00:53,029 --> 00:00:51,199

time you're seeing us on camera but also

15

00:00:54,470 --> 00:00:53,039

what makes this episode very special is

16

00:00:56,790 --> 00:00:54,480

it's the first time that we don't have

17

00:00:58,549 --> 00:00:56,800

our guests right here in the studio let

18

00:01:01,029 --> 00:00:58,559

alone on the planet today we're going to

19

00:01:02,869 --> 00:01:01,039

be talking to jack fisher aboard the

20

00:01:05,830 --> 00:01:02,879

international space station and i cannot

21

00:01:07,750 --> 00:01:05,840

do this alone so with me today i have a

22

00:01:09,429 --> 00:01:07,760

veteran of houston we have a podcast and

23

00:01:10,789 --> 00:01:09,439

also my co-host today dan hewitt dan

24

00:01:12,870 --> 00:01:10,799

thanks for joining us yeah it's it's

25

00:01:15,109 --> 00:01:12,880

real good to be back i was on the first

26

00:01:16,630 --> 00:01:15,119

episode and i'm not the expert we are

27

00:01:18,950 --> 00:01:16,640

talking to the expert in space today

28

00:01:21,109 --> 00:01:18,960

it's super exciting and again just wrap

29

00:01:23,590 --> 00:01:21,119

your mind about around that we're about

30

00:01:25,590 --> 00:01:23,600

to talk to somebody in outer space

31

00:01:26,870 --> 00:01:25,600

yeah how cool is that this is crazy i

32

00:01:29,030 --> 00:01:26,880

mean we're looking at him right now

33

00:01:30,870 --> 00:01:29,040

getting set up this is crazy i mean for

34

00:01:33,030 --> 00:01:30,880

me this personally this is my very first

35

00:01:35,429 --> 00:01:33,040

time talking to somebody in space that's

36

00:01:37,190 --> 00:01:35,439

right gary's newer here so he hasn't had

37

00:01:39,109 --> 00:01:37,200

the privilege i've been here a little

38

00:01:40,469 --> 00:01:39,119

bit longer and i've done it maybe once

39

00:01:41,910 --> 00:01:40,479

or twice still but it's still it's

40

00:01:43,190 --> 00:01:41,920

really exciting it makes you a little

41

00:01:45,670 --> 00:01:43,200

bit nervous

42

00:01:47,749 --> 00:01:45,680

but it's really cool to live in a time

43

00:01:49,830 --> 00:01:47,759

where we have the capabilities to talk

44

00:01:52,389 --> 00:01:49,840

to somebody who's in outer space we're

45

00:01:53,670 --> 00:01:52,399

flying around us right at 17 000 miles

46

00:01:55,749 --> 00:01:53,680

an hour i mean

47

00:01:57,749 --> 00:01:55,759

one of the coolest examples i can think

48

00:01:59,670 --> 00:01:57,759

of that happening and it shows you just

49

00:02:01,749 --> 00:01:59,680

how far we've come i mean it used to be

50

00:02:03,910 --> 00:02:01,759

you needed satellite dishes and

51
00:02:05,429 --> 00:02:03,920
technology and that weighed millions of

52
00:02:06,950 --> 00:02:05,439
pounds all these things just to talk to

53
00:02:09,270 --> 00:02:06,960
somebody you know a few hundred miles

54
00:02:10,710 --> 00:02:09,280
away and now you can talk to somebody in

55
00:02:12,949 --> 00:02:10,720
space in a cell phone that actually

56
00:02:15,190 --> 00:02:12,959
happened to us once we were over in

57
00:02:16,390 --> 00:02:15,200
kazakhstan and we had just watched one

58
00:02:18,949 --> 00:02:16,400
of the crews launched to the

59
00:02:20,390 --> 00:02:18,959
international space station and it had

60
00:02:22,309 --> 00:02:20,400
been a couple of hours so they were

61
00:02:25,589 --> 00:02:22,319
almost docked and we were heading to an

62
00:02:27,670 --> 00:02:25,599
old theater in baikonur to go watch the

63
00:02:29,830 --> 00:02:27,680

actual docking and the crew members get

64

00:02:31,110 --> 00:02:29,840

there and one of my colleagues phones

65

00:02:32,309 --> 00:02:31,120

rang

66

00:02:33,990 --> 00:02:32,319

and he answered it and you could just

67

00:02:35,350 --> 00:02:34,000

see his face light up

68

00:02:37,190 --> 00:02:35,360

and he it was just a real short

69

00:02:38,949 --> 00:02:37,200

conversation oh yeah no that sounds

70

00:02:41,270 --> 00:02:38,959

great sounds cool yeah we'll definitely

71

00:02:42,710 --> 00:02:41,280

use that that was it he hung up and he

72

00:02:44,390 --> 00:02:42,720

said that was the commander of the

73

00:02:45,910 --> 00:02:44,400

international space station he just

74

00:02:47,750 --> 00:02:45,920

called me on my cell phone to tell me

75

00:02:50,229 --> 00:02:47,760

how he was setting up a camera to watch

76
00:02:52,470 --> 00:02:50,239
the crew members come on board so i mean

77
00:02:53,910 --> 00:02:52,480
just that like blew my mind because we

78
00:02:55,750 --> 00:02:53,920
were just in this remote part of the

79
00:02:57,750 --> 00:02:55,760
planet and you can get a phone call from

80
00:02:59,589 --> 00:02:57,760
somebody in space like it's just so

81
00:03:01,509 --> 00:02:59,599
incredible that we're living in this

82
00:03:02,949 --> 00:03:01,519
time and we're about to talk to somebody

83
00:03:04,390 --> 00:03:02,959
in space and if you can't tell i'm

84
00:03:06,869 --> 00:03:04,400
really excited

85
00:03:08,149 --> 00:03:06,879
and i know gary is too yeah very very

86
00:03:10,550 --> 00:03:08,159
true it's just crazy you could pick up a

87
00:03:12,229 --> 00:03:10,560
box and then literally it is it is space

88
00:03:14,229 --> 00:03:12,239

calling i've heard stories of all you

89

00:03:15,910 --> 00:03:14,239

know astronauts calling pizza joints and

90

00:03:17,670 --> 00:03:15,920

ordering pizza for a colleague whose

91

00:03:19,350 --> 00:03:17,680

birthday it was or something like that

92

00:03:21,430 --> 00:03:19,360

it's just that's it's the most insane

93

00:03:23,430 --> 00:03:21,440

thing to think about but okay so today

94

00:03:24,869 --> 00:03:23,440

we're talking with somebody in space

95

00:03:27,190 --> 00:03:24,879

jack fisher let's talk a little bit

96

00:03:28,710 --> 00:03:27,200

about him who is this guy so jack fisher

97

00:03:31,190 --> 00:03:28,720

is one of the flight engineers for

98

00:03:33,509 --> 00:03:31,200

expedition 52 he's been on board the

99

00:03:34,710 --> 00:03:33,519

international space station since april

100

00:03:37,350 --> 00:03:34,720

when he launched with the russian

101
00:03:39,350 --> 00:03:37,360
cosmonaut fyodor yurchikhin jack is one

102
00:03:41,990 --> 00:03:39,360
of the relatively newer astronauts in

103
00:03:43,830 --> 00:03:42,000
the core he was selected back in 2009

104
00:03:45,990 --> 00:03:43,840
and this is his first space flight so

105
00:03:48,070 --> 00:03:46,000
this is his first time in space and he's

106
00:03:50,309 --> 00:03:48,080
been up there for a couple of months now

107
00:03:51,990 --> 00:03:50,319
he's got a stem background like all of

108
00:03:54,070 --> 00:03:52,000
the astronauts do degrees in

109
00:03:56,070 --> 00:03:54,080
aeronautical engineering and aeronautics

110
00:03:58,630 --> 00:03:56,080
and astronautics a lot of a words in

111
00:04:00,710 --> 00:03:58,640
there and he went to mit so he's got a

112
00:04:01,910 --> 00:04:00,720
pretty nice resume to make him an

113
00:04:03,350 --> 00:04:01,920

astronaut

114

00:04:05,830 --> 00:04:03,360

but he was also in the air force he's an

115

00:04:08,229 --> 00:04:05,840

air force colonel with 3 000 flight

116

00:04:09,830 --> 00:04:08,239

hours more than 45 different aircraft

117

00:04:12,309 --> 00:04:09,840

and he worked in a whole bunch of

118

00:04:14,149 --> 00:04:12,319

different jobs before he ever flew into

119

00:04:15,030 --> 00:04:14,159

space and all the astronauts do that

120

00:04:19,189 --> 00:04:15,040

they

121

00:04:21,349 --> 00:04:19,199

technical programs here at nasa jack was

122

00:04:23,110 --> 00:04:21,359

a capcom so he was one of the people who

123

00:04:25,110 --> 00:04:23,120

actually talks to astronauts every

124

00:04:26,629 --> 00:04:25,120

single day oh wow so you know for people

125

00:04:28,230 --> 00:04:26,639

like them talking to somebody in space

126

00:04:30,310 --> 00:04:28,240

it's their job it's kind of you know

127

00:04:31,270 --> 00:04:30,320

it's old hat for us it's super unique

128

00:04:32,950 --> 00:04:31,280

but

129

00:04:34,710 --> 00:04:32,960

he's done all those things and now he's

130

00:04:36,550 --> 00:04:34,720

been on board for the last couple of

131

00:04:39,670 --> 00:04:36,560

months and he's been doing everything

132

00:04:41,670 --> 00:04:39,680

from spacewalking to science to

133

00:04:44,310 --> 00:04:41,680

capturing visiting spacecraft kind of

134

00:04:47,030 --> 00:04:44,320

the whole gamut of stuff unbelievable

135

00:04:48,870 --> 00:04:47,040

okay so he's he's you know now he's got

136

00:04:51,189 --> 00:04:48,880

that experience right he's got not only

137

00:04:53,189 --> 00:04:51,199

the the flight time just in planes but

138

00:04:55,670 --> 00:04:53,199

now he's got flight time you know

139

00:04:58,790 --> 00:04:55,680

traveling 250 miles above the earth

140

00:05:01,510 --> 00:04:58,800

really really fast so uh he's got so how

141

00:05:04,550 --> 00:05:01,520

were his uh spacewalks what's that

142

00:05:06,870 --> 00:05:04,560

yeah so he did two spacewalks and every

143

00:05:08,230 --> 00:05:06,880

astronaut will tell you that spacewalks

144

00:05:10,070 --> 00:05:08,240

are one of the most unique one of the

145

00:05:11,510 --> 00:05:10,080

most dynamic things they get to do it's

146

00:05:14,310 --> 00:05:11,520

kind of one of the coolest things about

147

00:05:16,950 --> 00:05:14,320

being in space a lot of times and he did

148

00:05:18,469 --> 00:05:16,960

two back in may one they just replaced a

149

00:05:20,150 --> 00:05:18,479

component on the outside and the other

150

00:05:22,550 --> 00:05:20,160

one was something we called an unplanned

151
00:05:24,950 --> 00:05:22,560
spacewalk where something broke and they

152
00:05:26,710 --> 00:05:24,960
had to go outside and replace it and so

153
00:05:28,070 --> 00:05:26,720
he did both of those with peggy whitson

154
00:05:30,710 --> 00:05:28,080
who's been up there with him the whole

155
00:05:33,510 --> 00:05:30,720
time he affectionately refers to her as

156
00:05:35,350 --> 00:05:33,520
the space ninja she is the all-time

157
00:05:37,189 --> 00:05:35,360
record holder for american astronauts

158
00:05:39,110 --> 00:05:37,199
for time and space so definitely a good

159
00:05:41,270 --> 00:05:39,120
person to have up there with you before

160
00:05:43,670 --> 00:05:41,280
your first trip

161
00:05:45,909 --> 00:05:43,680
awesome well okay so we are going to be

162
00:05:47,990 --> 00:05:45,919
talking to jack fisher here in just a

163
00:05:49,830 --> 00:05:48,000

few minutes if you are tuning in on

164

00:05:51,670 --> 00:05:49,840

facebook live we are actually monitoring

165

00:05:53,670 --> 00:05:51,680

the questions right here and going to

166

00:05:55,909 --> 00:05:53,680

answer them as they come along maybe

167

00:05:57,830 --> 00:05:55,919

even send a couple up to jack once we

168

00:05:59,430 --> 00:05:57,840

get started here so we have a couple

169

00:06:01,670 --> 00:05:59,440

coming in already we have folks checking

170

00:06:04,230 --> 00:06:01,680

in from all over the world i see some

171

00:06:05,749 --> 00:06:04,240

from italy i see some from obviously

172

00:06:08,230 --> 00:06:05,759

here in the states so

173

00:06:10,150 --> 00:06:08,240

everyone welcome i did see one question

174

00:06:12,390 --> 00:06:10,160

actually before we even started this one

175

00:06:14,230 --> 00:06:12,400

this one is from kelly and she said her

176
00:06:16,230 --> 00:06:14,240
five-year-old was asking if some of the

177
00:06:18,790 --> 00:06:16,240
astronauts watch movies on the

178
00:06:20,629 --> 00:06:18,800
international they do they do we do like

179
00:06:22,710 --> 00:06:20,639
to equip them with some of the the kind

180
00:06:24,710 --> 00:06:22,720
of creature comforts of being back here

181
00:06:26,469 --> 00:06:24,720
at home cool and one thing they have up

182
00:06:28,150 --> 00:06:26,479
there is they actually have a very small

183
00:06:30,309 --> 00:06:28,160
projector and then a large screen i

184
00:06:31,510 --> 00:06:30,319
think it's about 40 inches or so and

185
00:06:33,510 --> 00:06:31,520
they'll have movie nights and we

186
00:06:35,990 --> 00:06:33,520
actually we do have a picture

187
00:06:38,309 --> 00:06:36,000
and this is all six crew members they

188
00:06:40,070 --> 00:06:38,319

use bungee cords to kind of make little

189

00:06:42,710 --> 00:06:40,080

lean-to hammocks and even breaking out

190

00:06:44,950 --> 00:06:42,720

their sleeping bags to get to gather

191

00:06:46,710 --> 00:06:44,960

together and watch movies in space

192

00:06:48,550 --> 00:06:46,720

a lot of them will tell you they like to

193

00:06:50,230 --> 00:06:48,560

watch a lot of space movies just because

194

00:06:51,270 --> 00:06:50,240

i mean they're up there they're living

195

00:06:52,629 --> 00:06:51,280

it but

196

00:06:55,029 --> 00:06:52,639

it's just one of those things that kind

197

00:06:56,550 --> 00:06:55,039

of makes living in space a little bit

198

00:06:57,990 --> 00:06:56,560

more like being back here at home

199

00:06:59,990 --> 00:06:58,000

because i mean you're in a really

200

00:07:02,070 --> 00:07:00,000

strange place it's true you're

201
00:07:04,469 --> 00:07:02,080
completely isolated from so from

202
00:07:07,029 --> 00:07:04,479
everybody except for the two or five

203
00:07:08,790 --> 00:07:07,039
people with you so having things like

204
00:07:10,390 --> 00:07:08,800
movies can make that time a lot easier

205
00:07:12,070 --> 00:07:10,400
and it seems like camaraderie has got to

206
00:07:13,510 --> 00:07:12,080
be one of the more important aspects of

207
00:07:14,870 --> 00:07:13,520
living in space too just getting along

208
00:07:16,390 --> 00:07:14,880
with your crewmates and doing stuff

209
00:07:17,749 --> 00:07:16,400
together i know i guess they watch

210
00:07:19,189 --> 00:07:17,759
movies together as we just saw in that

211
00:07:22,070 --> 00:07:19,199
picture but i know they eat meals

212
00:07:24,469 --> 00:07:22,080
together too oh yeah they do and

213
00:07:26,469 --> 00:07:24,479

they're together for years before they

214

00:07:28,230 --> 00:07:26,479

ever fly they'll usually be with the

215

00:07:30,790 --> 00:07:28,240

you'll be with the same people pretty

216

00:07:32,710 --> 00:07:30,800

much throughout all of your work time

217

00:07:34,230 --> 00:07:32,720

for two years before you ever fly in

218

00:07:36,150 --> 00:07:34,240

space with them so they know each other

219

00:07:37,510 --> 00:07:36,160

very well before they fly meals are

220

00:07:39,189 --> 00:07:37,520

definitely one of those so it's an

221

00:07:41,430 --> 00:07:39,199

international space stations there's a

222

00:07:42,950 --> 00:07:41,440

lot of international foods so they like

223

00:07:45,189 --> 00:07:42,960

to come together and share little

224

00:07:46,869 --> 00:07:45,199

creations the food's not quite as

225

00:07:48,710 --> 00:07:46,879

gourmet as it might be down here on

226

00:07:50,710 --> 00:07:48,720

earth but they do have a couple of ways

227

00:07:51,430 --> 00:07:50,720

to make it a little bit more interesting

228

00:07:56,629 --> 00:07:51,440

and

229

00:07:58,390 --> 00:07:56,639

because your taste actually changes when

230

00:08:00,629 --> 00:07:58,400

you're in space and that's due to all

231

00:08:03,909 --> 00:08:00,639

the fluids rushing up and a whole bunch

232

00:08:05,670 --> 00:08:03,919

of crazy things happen but wow yeah

233

00:08:07,110 --> 00:08:05,680

yeah all right well if you have any more

234

00:08:08,790 --> 00:08:07,120

questions for jack just put him in the

235

00:08:11,189 --> 00:08:08,800

comment section we'll kind of uh follow

236

00:08:12,710 --> 00:08:11,199

along and even he's he's getting set up

237

00:08:14,070 --> 00:08:12,720

here right now but once we start uh

238

00:08:16,070 --> 00:08:14,080

connect with him in just a few minutes

239

00:08:17,909 --> 00:08:16,080

here uh we'll read those questions up to

240

00:08:19,670 --> 00:08:17,919

him um but

241

00:08:21,589 --> 00:08:19,680

personally for me i mean besides just

242

00:08:23,830 --> 00:08:21,599

you reading his bio this is the first

243

00:08:25,670 --> 00:08:23,840

time i've met jack i'm the first time

244

00:08:26,550 --> 00:08:25,680

i'm actually gonna be talking to him so

245

00:08:28,390 --> 00:08:26,560

jack

246

00:08:30,710 --> 00:08:28,400

highly recommend following him on social

247

00:08:32,630 --> 00:08:30,720

media he's brought just an incredible

248

00:08:34,310 --> 00:08:32,640

amount of excitement to everything that

249

00:08:35,909 --> 00:08:34,320

he's been doing again he's a first timer

250

00:08:37,430 --> 00:08:35,919

so he's been experiencing all this for

251
00:08:39,670 --> 00:08:37,440
the first time and sharing it with

252
00:08:40,949 --> 00:08:39,680
people as he did i actually got to meet

253
00:08:43,269 --> 00:08:40,959
jack

254
00:08:45,990 --> 00:08:43,279
three years three years ago we were both

255
00:08:47,990 --> 00:08:46,000
down in florida for orion's first space

256
00:08:50,310 --> 00:08:48,000
flight eft one it was first time we put

257
00:08:52,790 --> 00:08:50,320
orion or next generation spacecraft into

258
00:08:55,430 --> 00:08:52,800
outer space and he was basically

259
00:08:56,389 --> 00:08:55,440
assigned to be our voice

260
00:08:58,230 --> 00:08:56,399
and our

261
00:09:00,230 --> 00:08:58,240
for the entire agency so we went around

262
00:09:02,550 --> 00:09:00,240
talking to media all of these different

263
00:09:04,230 --> 00:09:02,560

people to tell them about orion and

264

00:09:06,389 --> 00:09:04,240

again he just brings like this level of

265

00:09:08,550 --> 00:09:06,399

enthusiasm he's got a great sense of

266

00:09:10,230 --> 00:09:08,560

humor he's incredibly knowledgeable so

267

00:09:11,910 --> 00:09:10,240

he's going to be really great for this

268

00:09:15,190 --> 00:09:11,920

the most awesome podcast from space

269

00:09:16,710 --> 00:09:15,200

today so i'm super excited absolutely

270

00:09:18,150 --> 00:09:16,720

appropriately named too that's what

271

00:09:20,070 --> 00:09:18,160

we're going to be calling this episode

272

00:09:21,910 --> 00:09:20,080

so we'll talk to him right now this will

273

00:09:23,590 --> 00:09:21,920

be our live episode that we're doing

274

00:09:26,150 --> 00:09:23,600

here uh you'll be able to interact with

275

00:09:28,550 --> 00:09:26,160

us live but then it'll be available on

276

00:09:32,230 --> 00:09:28,560

itunes soundcloud and nasa.gov the

277

00:09:34,230 --> 00:09:32,240

recorded audio version um uh after this

278

00:09:35,750 --> 00:09:34,240

i guess tomorrow we'll post it so uh

279

00:09:38,470 --> 00:09:35,760

there'll be a full transcript with that

280

00:09:40,790 --> 00:09:38,480

as well so right now we're 20 seconds

281

00:09:42,389 --> 00:09:40,800

away oh okay we're about 20 seconds away

282

00:09:43,990 --> 00:09:42,399

gary are you ready are you ready to talk

283

00:09:45,670 --> 00:09:44,000

to space for the very first time i think

284

00:09:47,829 --> 00:09:45,680

so i think so are you ready okay

285

00:09:49,590 --> 00:09:47,839

everybody let's get ready for gary this

286

00:09:50,790 --> 00:09:49,600

can be a little nerve-wracking i assure

287

00:09:52,710 --> 00:09:50,800

you but

288

00:09:54,630 --> 00:09:52,720

just a couple of seconds okay so we'll

289

00:09:56,710 --> 00:09:54,640

wait for the call from mission control

290

00:09:59,750 --> 00:09:56,720

houston here and start talking to jack

291

00:10:05,190 --> 00:10:01,350

station this is houston are you ready

292

00:10:10,470 --> 00:10:07,630

i sure am

293

00:10:13,910 --> 00:10:10,480

jscpao this is mission control houston

294

00:10:16,230 --> 00:10:13,920

please call station for a voice check

295

00:10:17,829 --> 00:10:16,240

station this is gary jordan and dan

296

00:10:21,910 --> 00:10:17,839

hewitt here for houston we have a

297

00:10:25,110 --> 00:10:23,990

loud and clear gary and dan great to be

298

00:10:28,069 --> 00:10:25,120

with you today

299

00:10:30,790 --> 00:10:28,079

awesome well i am extremely excited

300

00:10:32,790 --> 00:10:30,800

about this episode because uh as i was

301
00:10:34,949 --> 00:10:32,800
telling dan here uh beforehand you know

302
00:10:37,190 --> 00:10:34,959
this is usually when we have a guest uh

303
00:10:39,350 --> 00:10:37,200
they're on the in the studio let alone

304
00:10:40,870 --> 00:10:39,360
on the planet so i'm gonna start off

305
00:10:42,710 --> 00:10:40,880
this conversation by asking something

306
00:10:46,710 --> 00:10:42,720
that i literally cannot ask anyone else

307
00:10:52,550 --> 00:10:50,550
it's awesome like it is every day and

308
00:10:54,710 --> 00:10:52,560
what i was gonna do

309
00:10:56,310 --> 00:10:54,720
just because you know it is your first

310
00:10:58,069 --> 00:10:56,320
guest from space

311
00:11:00,069 --> 00:10:58,079
every single question

312
00:11:02,230 --> 00:11:00,079
i'm gonna go on a different you know

313
00:11:03,430 --> 00:11:02,240

wall so i'll be on the walls i'll be on

314

00:11:06,150 --> 00:11:03,440

the ceiling

315

00:11:08,630 --> 00:11:06,160

i'm gonna i'm gonna adjust orientation

316

00:11:11,509 --> 00:11:08,640

mid interview at every question just

317

00:11:13,269 --> 00:11:11,519

because i can and it's cool

318

00:11:15,590 --> 00:11:13,279

i love it okay

319

00:11:16,870 --> 00:11:15,600

awesome so so you're used to space now

320

00:11:18,949 --> 00:11:16,880

you've been up there for what is it

321

00:11:21,350 --> 00:11:18,959

almost four months so i mean when you're

322

00:11:23,350 --> 00:11:21,360

gonna be switching from wall to wall do

323

00:11:27,190 --> 00:11:23,360

you sort of get disoriented or is your

324

00:11:30,630 --> 00:11:29,269

man it kind of figured it out pretty

325

00:11:32,949 --> 00:11:30,640

quick and you know that's what's so

326

00:11:35,750 --> 00:11:32,959

awesome about the human brain we come up

327

00:11:38,310 --> 00:11:35,760

here in a completely foreign environment

328

00:11:40,470 --> 00:11:38,320

and the brain's just like man all this

329

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

vestibular all these things that i

330

00:11:45,509 --> 00:11:42,320

normally use to figure out which way is

331

00:11:47,350 --> 00:11:45,519

up and to orient this body for this dude

332

00:11:49,829 --> 00:11:47,360

doesn't work so i have to find a

333

00:11:52,389 --> 00:11:49,839

different way and it forces your your

334

00:11:54,389 --> 00:11:52,399

mind and your body to grow and to look

335

00:11:55,350 --> 00:11:54,399

at things differently so you start

336

00:11:57,670 --> 00:11:55,360

looking

337

00:12:01,509 --> 00:11:57,680

three-dimensionally at everything around

338

00:12:04,150 --> 00:12:01,519

you and and it's amazing how quickly

339

00:12:04,870 --> 00:12:04,160

your body can adapt and just get used to

340

00:12:06,310 --> 00:12:04,880

it

341

00:12:07,990 --> 00:12:06,320

all right that was question one i got to

342

00:12:09,910 --> 00:12:08,000

switch now

343

00:12:11,990 --> 00:12:09,920

all right well why you do that i mean

344

00:12:13,750 --> 00:12:12,000

that just kind of leads into

345

00:12:15,430 --> 00:12:13,760

what is difficult to get used to when

346

00:12:17,750 --> 00:12:15,440

you get up there because i mean it's a

347

00:12:19,829 --> 00:12:17,760

completely alien environment from what

348

00:12:25,030 --> 00:12:19,839

we grow up and you spend your entire

349

00:12:30,550 --> 00:12:27,430

absolutely and you know it it totally

350

00:12:33,030 --> 00:12:30,560

depends on the person and we can't

351

00:12:35,190 --> 00:12:33,040

really predict uh even depending on your

352

00:12:36,230 --> 00:12:35,200

background i i come from a test pilot

353

00:12:38,069 --> 00:12:36,240

background

354

00:12:39,829 --> 00:12:38,079

and you know can do things in an

355

00:12:41,190 --> 00:12:39,839

airplane that would make a billy goat

356

00:12:42,790 --> 00:12:41,200

puke but

357

00:12:45,030 --> 00:12:42,800

that doesn't mean that when i get up

358

00:12:47,350 --> 00:12:45,040

here i'm going to be

359

00:12:49,590 --> 00:12:47,360

any better than a

360

00:12:52,230 --> 00:12:49,600

a scientist who's never been in a plane

361

00:12:54,470 --> 00:12:52,240

um it's it's not a good predictor i was

362

00:12:58,150 --> 00:12:54,480

lucky and when i got up here i didn't

363

00:13:00,870 --> 00:12:58,160

have congestion or or upset stomach or

364

00:13:04,150 --> 00:13:00,880

you know any of those those big problems

365

00:13:06,949 --> 00:13:04,160

that some people deal with but everybody

366

00:13:09,670 --> 00:13:06,959

has to learn how to fly and

367

00:13:11,430 --> 00:13:09,680

so as a test pilot i was probably worse

368

00:13:13,910 --> 00:13:11,440

than most because

369

00:13:16,629 --> 00:13:13,920

you know most people find a way to you

370

00:13:18,710 --> 00:13:16,639

know translate and fly from point to

371

00:13:19,829 --> 00:13:18,720

point and and just be happy with it but

372

00:13:22,230 --> 00:13:19,839

for me

373

00:13:23,670 --> 00:13:22,240

every day i got to try something new so

374

00:13:26,389 --> 00:13:23,680

i would

375

00:13:27,670 --> 00:13:26,399

really suck at it and run into stuff and

376

00:13:30,389 --> 00:13:27,680

hit myself

377

00:13:31,990 --> 00:13:30,399

into things and and that wasn't good but

378

00:13:33,829 --> 00:13:32,000

then i'd get better

379

00:13:36,710 --> 00:13:33,839

and then i try something more or i try

380

00:13:40,470 --> 00:13:36,720

going faster and it was like this cycle

381

00:13:43,030 --> 00:13:40,480

so now i i'm doing pretty good but uh it

382

00:13:44,470 --> 00:13:43,040

was it was a long and bumpy road and and

383

00:13:46,550 --> 00:13:44,480

don't ask peggy how many things that

384

00:13:48,949 --> 00:13:46,560

knocked off the wall

385

00:13:50,550 --> 00:13:48,959

oh i mean we talked a little bit earlier

386

00:13:53,110 --> 00:13:50,560

so you got peggy whitson up there the

387

00:13:54,069 --> 00:13:53,120

space ninja as you like to call her i

388

00:13:55,590 --> 00:13:54,079

mean

389

00:13:56,949 --> 00:13:55,600

are there any crazy moves that you've

390

00:14:02,230 --> 00:13:56,959

broken out that she's looked at you and

391

00:14:06,870 --> 00:14:05,110

my gosh so many times she has a patented

392

00:14:10,389 --> 00:14:06,880

look it's the

393

00:14:12,230 --> 00:14:10,399

two fish you are crazy look and i've i i

394

00:14:14,629 --> 00:14:12,240

pretty much got that down when i get the

395

00:14:16,710 --> 00:14:14,639

peggy wits and to fish your crazy look

396

00:14:19,750 --> 00:14:16,720

then i know okay

397

00:14:22,310 --> 00:14:19,760

that one that one i gotta stop

398

00:14:23,910 --> 00:14:22,320

so i mean what have you learned i mean

399

00:14:25,509 --> 00:14:23,920

now you've been in space with peggy

400

00:14:27,509 --> 00:14:25,519

whitson for this long what have you

401
00:14:29,509 --> 00:14:27,519
learned from her that you sort of uh

402
00:14:31,350 --> 00:14:29,519
take with you and then you know i guess

403
00:14:33,590 --> 00:14:31,360
kind of off of that what have you

404
00:14:39,670 --> 00:14:33,600
learned that uh really sort of annoys

405
00:14:43,910 --> 00:14:41,110
well

406
00:14:45,829 --> 00:14:43,920
we we we're like two peas in a pod we we

407
00:14:48,550 --> 00:14:45,839
give each other a hard time all the time

408
00:14:51,670 --> 00:14:48,560
so uh we tease each other a bunch we

409
00:14:53,829 --> 00:14:51,680
have a good time but i'm very

410
00:14:56,790 --> 00:14:53,839
i i just can't even say how lucky i am

411
00:14:58,870 --> 00:14:56,800
to have been on orbit with not only

412
00:15:01,350 --> 00:14:58,880
peggy but also fiona yurchikhin my

413
00:15:02,629 --> 00:15:01,360

commander and and and friend in the in

414

00:15:05,189 --> 00:15:02,639

the soyuz and the commander of the

415

00:15:07,670 --> 00:15:05,199

station now those two have so much

416

00:15:10,069 --> 00:15:07,680

experience that i learn

417

00:15:10,870 --> 00:15:10,079

everything from them they you know not

418

00:15:13,750 --> 00:15:10,880

just

419

00:15:15,590 --> 00:15:13,760

the big stuff of how to organize your

420

00:15:17,990 --> 00:15:15,600

day and how to be efficient and those

421

00:15:20,389 --> 00:15:18,000

type of things but even the little stuff

422

00:15:23,910 --> 00:15:20,399

and i i every time they're around my

423

00:15:26,389 --> 00:15:23,920

eyes are wide open you know how is peggy

424

00:15:28,710 --> 00:15:26,399

cutting her food packet because it's

425

00:15:31,030 --> 00:15:28,720

probably the best way because she's done

426

00:15:32,949 --> 00:15:31,040

it quite a few times so

427

00:15:35,829 --> 00:15:32,959

you know how is fyodor holding his

428

00:15:38,150 --> 00:15:35,839

camera what what settings is he using

429

00:15:41,030 --> 00:15:38,160

for this task it it's

430

00:15:42,949 --> 00:15:41,040

to just watch them and just soak that in

431

00:15:45,189 --> 00:15:42,959

gosh i am so lucky to have been up here

432

00:15:48,550 --> 00:15:45,199

with these two and just

433

00:15:50,470 --> 00:15:48,560

soak in all their goodness and knowledge

434

00:15:52,230 --> 00:15:50,480

and you you've been working side by side

435

00:15:53,670 --> 00:15:52,240

with them for the last couple of months

436

00:15:55,110 --> 00:15:53,680

just walk us through real quick what's

437

00:15:56,710 --> 00:15:55,120

just you know some of the stuff you're

438

00:15:58,949 --> 00:15:56,720

doing up there because it's a lot more

439

00:16:00,870 --> 00:15:58,959

than just flying and stuff like that

440

00:16:04,150 --> 00:16:00,880

you're doing you know serious experiment

441

00:16:09,350 --> 00:16:07,110

oh absolutely the the space station is

442

00:16:10,629 --> 00:16:09,360

just the most amazing world-class

443

00:16:13,269 --> 00:16:10,639

laboratory

444

00:16:15,590 --> 00:16:13,279

floating around doing science all day

445

00:16:17,749 --> 00:16:15,600

every day we're doing science inside

446

00:16:20,870 --> 00:16:17,759

we're doing science outside let me turn

447

00:16:25,350 --> 00:16:23,030

i gotta we're getting an echo so i don't

448

00:16:26,069 --> 00:16:25,360

want you to hear me twice that's way too

449

00:16:29,350 --> 00:16:26,079

much

450

00:16:32,310 --> 00:16:29,360

so the the space station for example

451
00:16:35,509 --> 00:16:32,320
when spacex 11 came up it had six tons

452
00:16:37,749 --> 00:16:35,519
of science mostly science on board that

453
00:16:39,749 --> 00:16:37,759
then we had to bring on board

454
00:16:42,230 --> 00:16:39,759
knock out that science get it back on

455
00:16:45,110 --> 00:16:42,240
the spacex and back to earth that's the

456
00:16:46,310 --> 00:16:45,120
job of this place is just rocking the

457
00:16:48,949 --> 00:16:46,320
science

458
00:16:52,150 --> 00:16:48,959
we're doing not only stuff for human

459
00:16:54,230 --> 00:16:52,160
health and and those type of sciences uh

460
00:16:56,629 --> 00:16:54,240
there was a great experiment that uh

461
00:16:59,430 --> 00:16:56,639
peggy was working on the other day with

462
00:17:01,350 --> 00:16:59,440
a new drug that actually finds targets

463
00:17:02,790 --> 00:17:01,360

uh cancer cells we're growing lung

464

00:17:05,750 --> 00:17:02,800

cancer tissue

465

00:17:08,390 --> 00:17:05,760

and it was doing some great work against

466

00:17:10,710 --> 00:17:08,400

the cancer how cool would that be if we

467

00:17:12,789 --> 00:17:10,720

could crack the code of that horrible

468

00:17:15,590 --> 00:17:12,799

disease that you know even my daughter

469

00:17:18,230 --> 00:17:15,600

uh phil pray to so

470

00:17:21,750 --> 00:17:18,240

not just those we're we're looking at

471

00:17:24,630 --> 00:17:21,760

just 10 feet from me is a machine called

472

00:17:26,870 --> 00:17:24,640

the elf that's looking at new ways to

473

00:17:28,069 --> 00:17:26,880

create alloys that are lighter that are

474

00:17:30,310 --> 00:17:28,079

stronger

475

00:17:34,070 --> 00:17:30,320

i mean this whole place every square

476
00:17:35,750 --> 00:17:34,080
inch is dedicated to either pure science

477
00:17:37,590 --> 00:17:35,760
or the systems

478
00:17:39,110 --> 00:17:37,600
that are going to keep us

479
00:17:41,669 --> 00:17:39,120
and those science

480
00:17:44,549 --> 00:17:41,679
experiments cranking away and getting

481
00:17:47,430 --> 00:17:44,559
great results back to earth to to help

482
00:17:49,830 --> 00:17:47,440
humanity to make humanity better and to

483
00:17:51,510 --> 00:17:49,840
enable us to explore and go further into

484
00:17:53,909 --> 00:17:51,520
the universe

485
00:17:55,830 --> 00:17:53,919
that sounds incredible um i'm sure i

486
00:17:58,070 --> 00:17:55,840
mean besides all the science you have a

487
00:17:59,430 --> 00:17:58,080
lot of uh i guess i don't know about a

488
00:18:00,870 --> 00:17:59,440

lot of chances but you do have the

489

00:18:03,430 --> 00:18:00,880

chance to sort of look out the window

490

00:18:06,150 --> 00:18:03,440

and see the earth go by so we do have a

491

00:18:08,070 --> 00:18:06,160

facebook question from uh with sal how

492

00:18:09,430 --> 00:18:08,080

do we look from orbit i don't know if

493

00:18:10,549 --> 00:18:09,440

you're whenever you're taking pictures

494

00:18:12,789 --> 00:18:10,559

of the earth i don't know if you can

495

00:18:14,390 --> 00:18:12,799

zoom down and actually get so close that

496

00:18:19,110 --> 00:18:14,400

you can start to see people

497

00:18:23,350 --> 00:18:20,870

well we're pretty far up if we had a

498

00:18:25,270 --> 00:18:23,360

bigger uh you know lens we could

499

00:18:27,270 --> 00:18:25,280

probably see it but the bigger the lens

500

00:18:29,270 --> 00:18:27,280

the smoother you have to be

501
00:18:30,950 --> 00:18:29,280
fyodor could probably do it i can't do

502
00:18:32,789 --> 00:18:30,960
it so the biggest

503
00:18:36,070 --> 00:18:32,799
that i've been using is an 800

504
00:18:40,390 --> 00:18:36,080
millimeter lens and we can get about two

505
00:18:43,190 --> 00:18:40,400
houses and see houses so that's about as

506
00:18:44,950 --> 00:18:43,200
fine detail is what we can see so we're

507
00:18:46,450 --> 00:18:44,960
not looking in your window and and

508
00:18:47,830 --> 00:18:46,460
spying on you i promise

509
00:18:49,430 --> 00:18:47,840
[Laughter]

510
00:18:51,270 --> 00:18:49,440
well that's good to know but i'm sure i

511
00:18:53,510 --> 00:18:51,280
mean you see you're traveling so fast

512
00:18:55,750 --> 00:18:53,520
around the earth you get to see so much

513
00:18:57,590 --> 00:18:55,760

of it is there any sort of places on

514

00:18:59,990 --> 00:18:57,600

earth that really stand out to you that

515

00:19:01,669 --> 00:19:00,000

you really like to either gaze at or

516

00:19:06,390 --> 00:19:01,679

kind of take pictures of because you see

517

00:19:09,669 --> 00:19:08,630

you bet there are places that you know

518

00:19:12,070 --> 00:19:09,679

kind of

519

00:19:14,310 --> 00:19:12,080

blew me away for sure the first time i

520

00:19:17,029 --> 00:19:14,320

saw him the bahamas are just the blue is

521

00:19:19,669 --> 00:19:17,039

just ridiculous i don't even know

522

00:19:22,310 --> 00:19:19,679

it it's hard to believe it's real uh one

523

00:19:24,870 --> 00:19:22,320

of fyodor's favorite places is kamchatka

524

00:19:26,789 --> 00:19:24,880

which is kind of a little flange off the

525

00:19:29,029 --> 00:19:26,799

top end of russian there's all these

526
00:19:30,549 --> 00:19:29,039
great volcanoes that are just incredible

527
00:19:33,590 --> 00:19:30,559
looking

528
00:19:35,750 --> 00:19:33,600
so there's a lot of places that are

529
00:19:37,590 --> 00:19:35,760
wonderful but what i've

530
00:19:40,230 --> 00:19:37,600
really tried to do and it's probably why

531
00:19:43,029 --> 00:19:40,240
i don't have pictures of specific places

532
00:19:43,750 --> 00:19:43,039
like my hometown in colorado lewisville

533
00:19:48,549 --> 00:19:43,760
or

534
00:19:49,909 --> 00:19:48,559
i kind of go to the window and let god

535
00:19:52,470 --> 00:19:49,919
show me what

536
00:19:54,630 --> 00:19:52,480
show me the tour and i've never been

537
00:19:57,190 --> 00:19:54,640
disappointed um

538
00:19:59,110 --> 00:19:57,200

you could be flying over the sahara and

539

00:20:01,990 --> 00:19:59,120

you'll see these

540

00:20:05,190 --> 00:20:02,000

bright reds and you know a mountain

541

00:20:07,270 --> 00:20:05,200

right next to sand or a sandstorm and

542

00:20:09,029 --> 00:20:07,280

then you'll be in the himalayas and

543

00:20:10,789 --> 00:20:09,039

you'll see these incredible mountains

544

00:20:13,270 --> 00:20:10,799

every time i look out the window i'm

545

00:20:14,230 --> 00:20:13,280

just in odd how beautiful the earth is

546

00:20:16,549 --> 00:20:14,240

so

547

00:20:18,070 --> 00:20:16,559

my favorite place

548

00:20:21,430 --> 00:20:18,080

earth

549

00:20:23,350 --> 00:20:21,440

oh good answer all right well

550

00:20:24,630 --> 00:20:23,360

your your acrobatics are making a lot of

551
00:20:26,149 --> 00:20:24,640
people jealous and we're actually

552
00:20:27,990 --> 00:20:26,159
getting a lot of questions about how to

553
00:20:30,390 --> 00:20:28,000
become an astronaut so i want to switch

554
00:20:31,750 --> 00:20:30,400
gears real quick so we've had a lot of

555
00:20:34,230 --> 00:20:31,760
news a lot of stuff out there we just

556
00:20:35,510 --> 00:20:34,240
hired a new group of astronauts or new

557
00:20:37,590 --> 00:20:35,520
astronaut candidates that are going to

558
00:20:39,110 --> 00:20:37,600
be reporting soon and one of my favorite

559
00:20:40,789 --> 00:20:39,120
things to talk to them about was when

560
00:20:41,750 --> 00:20:40,799
they got the call when they got the call

561
00:20:43,510 --> 00:20:41,760
that they were going to come be an

562
00:20:45,590 --> 00:20:43,520
astronaut but i don't know if you

563
00:20:47,350 --> 00:20:45,600

remember but i was actually with you

564

00:20:49,110 --> 00:20:47,360

shortly after you got the call that you

565

00:20:51,430 --> 00:20:49,120

were got you had gotten assigned to a

566

00:20:53,270 --> 00:20:51,440

mission so i have to ask which one was

567

00:20:55,510 --> 00:20:53,280

more exciting you're going to be an

568

00:20:59,270 --> 00:20:55,520

astronaut or hey it's time to go fly in

569

00:21:03,510 --> 00:21:01,830

boy that's tough probably that you're

570

00:21:04,950 --> 00:21:03,520

going to be an astronaut

571

00:21:07,110 --> 00:21:04,960

um

572

00:21:10,950 --> 00:21:07,120

not not because you take it for granted

573

00:21:12,549 --> 00:21:10,960

that you'll fly but it's just

574

00:21:14,070 --> 00:21:12,559

once you're an astronaut

575

00:21:15,430 --> 00:21:14,080

you got a real good chance that you're

576

00:21:17,830 --> 00:21:15,440

going to fly

577

00:21:20,070 --> 00:21:17,840

um before that and to become an

578

00:21:22,230 --> 00:21:20,080

astronaut you know when people ask

579

00:21:24,070 --> 00:21:22,240

how do you become an astronaut well

580

00:21:25,830 --> 00:21:24,080

i'll give you the advice that that my

581

00:21:28,149 --> 00:21:25,840

dad gave me you know

582

00:21:31,190 --> 00:21:28,159

dare to dream so

583

00:21:34,230 --> 00:21:31,200

only you can define your own dream to

584

00:21:37,190 --> 00:21:34,240

find your passion the thing that really

585

00:21:39,110 --> 00:21:37,200

makes you go because once you find that

586

00:21:41,350 --> 00:21:39,120

you're gonna work hard at it

587

00:21:43,270 --> 00:21:41,360

and that's what the dare part is

588

00:21:45,430 --> 00:21:43,280

nobody's gonna give it to you you to

589

00:21:48,789 --> 00:21:45,440

work really hard

590

00:21:50,070 --> 00:21:48,799

to make that passion and that dream

591

00:21:51,350 --> 00:21:50,080

a reality

592

00:21:53,990 --> 00:21:51,360

but then

593

00:21:55,909 --> 00:21:54,000

there's one more part of it and to

594

00:21:58,950 --> 00:21:55,919

become an astronaut one of the biggest

595

00:22:02,789 --> 00:21:58,960

parts of it is just sheer luck

596

00:22:05,029 --> 00:22:02,799

timing and i am just lucky there are

597

00:22:07,510 --> 00:22:05,039

tons of people more qualified than me

598

00:22:09,669 --> 00:22:07,520

that are better than me in every single

599

00:22:12,070 --> 00:22:09,679

way but maybe

600

00:22:14,149 --> 00:22:12,080

that round of interviews they didn't

601
00:22:17,350 --> 00:22:14,159
apply or they weren't in the right place

602
00:22:19,430 --> 00:22:17,360
in their life uh that they could apply i

603
00:22:21,909 --> 00:22:19,440
just got lucky to be in the right place

604
00:22:24,950 --> 00:22:21,919
at the right time

605
00:22:26,390 --> 00:22:24,960
and and be a part of an incredible group

606
00:22:27,830 --> 00:22:26,400
so

607
00:22:29,510 --> 00:22:27,840
my advice for people who want to become

608
00:22:31,430 --> 00:22:29,520
an astronaut

609
00:22:33,830 --> 00:22:31,440
find your passion so that you never work

610
00:22:35,350 --> 00:22:33,840
a day in your life work really hard at

611
00:22:36,870 --> 00:22:35,360
it and then

612
00:22:39,590 --> 00:22:36,880
even if it doesn't work out because you

613
00:22:41,510 --> 00:22:39,600

weren't lucky at the right time to be

614

00:22:43,590 --> 00:22:41,520

selected as an astronaut you're still

615

00:22:45,909 --> 00:22:43,600

doing what you love and you're making a

616

00:22:47,110 --> 00:22:45,919

big difference on this planet

617

00:22:48,950 --> 00:22:47,120

well jack i don't think you give

618

00:22:51,110 --> 00:22:48,960

yourself enough credit i think like

619

00:22:53,909 --> 00:22:51,120

you're an extremely hard worker and your

620

00:22:55,909 --> 00:22:53,919

passion is definitely reflected uh on

621

00:22:58,470 --> 00:22:55,919

everything that you do and especially us

622

00:23:00,390 --> 00:22:58,480

we really enjoy watching you on orbit um

623

00:23:02,149 --> 00:23:00,400

but you know for for folks who want to

624

00:23:04,230 --> 00:23:02,159

become an astronaut you can actually

625

00:23:06,149 --> 00:23:04,240

give them a sense of sort of what that

626

00:23:07,590 --> 00:23:06,159

feels like and i know there's a lot of

627

00:23:08,710 --> 00:23:07,600

you know there's a lot of hard work and

628

00:23:11,190 --> 00:23:08,720

a lot of different things you have to

629

00:23:13,430 --> 00:23:11,200

learn but there's also that element that

630

00:23:15,909 --> 00:23:13,440

human element of being in space of

631

00:23:18,310 --> 00:23:15,919

living in space so i have a question uh

632

00:23:20,230 --> 00:23:18,320

just about do you feel do you ever feel

633

00:23:22,070 --> 00:23:20,240

isolated do you ever feel away from

634

00:23:23,270 --> 00:23:22,080

things or are you sort of connected and

635

00:23:25,830 --> 00:23:23,280

then i have another question from

636

00:23:28,230 --> 00:23:25,840

facebook from kay asking uh if you have

637

00:23:31,350 --> 00:23:28,240

insomnia in space they're two sort of

638

00:23:36,070 --> 00:23:31,360

related questions not really but uh uh

639

00:23:39,270 --> 00:23:37,750

okay i'm gonna have to flip mid-question

640

00:23:41,110 --> 00:23:39,280

because that's really two questions so

641

00:23:43,430 --> 00:23:41,120

i'll do the first one quickly the

642

00:23:46,870 --> 00:23:43,440

insomnia one some people have a hard

643

00:23:48,549 --> 00:23:46,880

time sleeping in space i don't my back

644

00:23:50,310 --> 00:23:48,559

usually kind of hurts on the ground

645

00:23:53,830 --> 00:23:50,320

because i've been flying fighters for

646

00:23:55,990 --> 00:23:53,840

too long uh but up here i feel great so

647

00:23:58,149 --> 00:23:56,000

it's like sleeping on an airbed because

648

00:24:00,470 --> 00:23:58,159

well i'm floating on air so that's

649

00:24:01,350 --> 00:24:00,480

awesome okay now i gotta flip

650

00:24:04,710 --> 00:24:01,360

uh

651
00:24:06,710 --> 00:24:04,720
isolated you do feel a bit

652
00:24:07,990 --> 00:24:06,720
not because there's not connectivity

653
00:24:10,630 --> 00:24:08,000
with the ground

654
00:24:11,510 --> 00:24:10,640
we can call via an internet protocol

655
00:24:14,310 --> 00:24:11,520
phone

656
00:24:16,470 --> 00:24:14,320
as well as video chat sometimes and then

657
00:24:17,669 --> 00:24:16,480
we're in constant communication with the

658
00:24:20,390 --> 00:24:17,679
ground

659
00:24:23,750 --> 00:24:20,400
all throughout the day as far as feeling

660
00:24:25,909 --> 00:24:23,760
isolated sometimes you feel because

661
00:24:28,549 --> 00:24:25,919
everything you're doing is being watched

662
00:24:30,630 --> 00:24:28,559
and i'm not talking about a podcast or

663
00:24:31,590 --> 00:24:30,640

posting on twitter or any of those type

664

00:24:35,110 --> 00:24:31,600

of things

665

00:24:37,430 --> 00:24:35,120

everything we do as we're doing science

666

00:24:40,070 --> 00:24:37,440

and as we're doing activities is being

667

00:24:42,470 --> 00:24:40,080

watched by the control centers worldwide

668

00:24:43,590 --> 00:24:42,480

that are keeping this place running and

669

00:24:45,830 --> 00:24:43,600

so

670

00:24:47,590 --> 00:24:45,840

you can kind of feel like my gosh

671

00:24:50,390 --> 00:24:47,600

because you're going to make mistakes

672

00:24:52,630 --> 00:24:50,400

you can't go for six months doing you

673

00:24:55,190 --> 00:24:52,640

know 12 hours a day and not make

674

00:24:57,029 --> 00:24:55,200

mistakes you're gonna make mistakes

675

00:24:58,710 --> 00:24:57,039

and sometimes you feel like man

676
00:25:01,350 --> 00:24:58,720
everybody is seeing everything that i'm

677
00:25:03,830 --> 00:25:01,360
doing wrong like you have a bad day

678
00:25:06,390 --> 00:25:03,840
that's when i break into my emergency

679
00:25:08,870 --> 00:25:06,400
coffee store and uh and get another

680
00:25:12,230 --> 00:25:08,880
coffee pouch out so i can have some

681
00:25:14,070 --> 00:25:12,240
coffee and then things get better

682
00:25:15,750 --> 00:25:14,080
all right we only got a couple of

683
00:25:17,110 --> 00:25:15,760
minutes left so it's it's time to get

684
00:25:19,430 --> 00:25:17,120
into some of the deep stuff some of the

685
00:25:22,070 --> 00:25:19,440
deep cuts here so you've been up there

686
00:25:24,630 --> 00:25:22,080
for a couple of months has just your

687
00:25:26,870 --> 00:25:24,640
perspective about everything about life

688
00:25:28,789 --> 00:25:26,880

on earth about you know life in general

689

00:25:30,710 --> 00:25:28,799

about your job about all that has been

690

00:25:35,590 --> 00:25:30,720

in space change that like do you have

691

00:25:40,230 --> 00:25:38,310

you know you do because you get to see

692

00:25:42,870 --> 00:25:40,240

the world in this totally different

693

00:25:44,630 --> 00:25:42,880

light this world without borders you

694

00:25:46,630 --> 00:25:44,640

know one shared experience for everybody

695

00:25:49,590 --> 00:25:46,640

in the the beauty and the

696

00:25:52,870 --> 00:25:49,600

just that thin blue line that that is so

697

00:25:55,110 --> 00:25:52,880

frail that holds all life you just

698

00:25:56,470 --> 00:25:55,120

your perspective has to grow and adapt

699

00:25:58,789 --> 00:25:56,480

and change to that

700

00:25:59,990 --> 00:25:58,799

but like i mentioned earlier how quickly

701
00:26:02,310 --> 00:26:00,000
your brain

702
00:26:05,029 --> 00:26:02,320
adapts and grows i think that

703
00:26:06,230 --> 00:26:05,039
perspective helps you grow as well and

704
00:26:08,870 --> 00:26:06,240
that's why

705
00:26:11,190 --> 00:26:08,880
after this experience

706
00:26:14,070 --> 00:26:11,200
yes my perspective has changed but it it

707
00:26:15,590 --> 00:26:14,080
has really inspired me to try

708
00:26:22,390 --> 00:26:15,600
to get

709
00:26:23,590 --> 00:26:22,400
permanent foothold in the stars for for

710
00:26:25,830 --> 00:26:23,600
our species

711
00:26:30,710 --> 00:26:25,840
i think we're on the verge of that and

712
00:26:33,510 --> 00:26:30,720
with orion and sls our new huge rocket

713
00:26:35,830 --> 00:26:33,520

we're taking steps towards that as well

714

00:26:37,510 --> 00:26:35,840

as a commercial industry a burgeoning

715

00:26:38,630 --> 00:26:37,520

commercial industry that's building the

716

00:26:40,789 --> 00:26:38,640

infrastructure

717

00:26:41,590 --> 00:26:40,799

for us to press further into the galaxy

718

00:26:44,950 --> 00:26:41,600

so

719

00:26:47,909 --> 00:26:44,960

i i'm my perspective change is that i

720

00:26:49,029 --> 00:26:47,919

want to do everything i possibly can to

721

00:26:52,549 --> 00:26:49,039

help

722

00:26:55,590 --> 00:26:52,559

the human species humanity as a whole

723

00:26:57,190 --> 00:26:55,600

go further and grow and evolve like i

724

00:26:59,350 --> 00:26:57,200

know they're capable of

725

00:27:01,669 --> 00:26:59,360

amazing that's it's just such an

726

00:27:03,190 --> 00:27:01,679

incredible perspective i mean just i

727

00:27:05,029 --> 00:27:03,200

mean looking down and you know just

728

00:27:07,269 --> 00:27:05,039

realizing kind of what we can accomplish

729

00:27:09,269 --> 00:27:07,279

it's it's kind of amazing but

730

00:27:12,149 --> 00:27:09,279

i guess from there do you ever do you

731

00:27:14,710 --> 00:27:12,159

ever sort of miss earth or uh maybe even

732

00:27:19,190 --> 00:27:14,720

i guess here's a question from geraldine

733

00:27:26,149 --> 00:27:22,630

oh sometimes the other day i was doing a

734

00:27:28,070 --> 00:27:26,159

task and and my wrench like pops off the

735

00:27:30,470 --> 00:27:28,080

bolt and it goes

736

00:27:32,310 --> 00:27:30,480

flying off and i'm like ah no big deal

737

00:27:35,110 --> 00:27:32,320

to hit the wall come back to me and i

738

00:27:38,070 --> 00:27:35,120

look over and there's this gap above the

739

00:27:40,230 --> 00:27:38,080

rack and it's like it's like an inch

740

00:27:42,630 --> 00:27:40,240

and that wrench decided oh i'm gonna

741

00:27:45,029 --> 00:27:42,640

turn so i'm perfectly in line with that

742

00:27:47,750 --> 00:27:45,039

gap and it went floating inside and then

743

00:27:49,750 --> 00:27:47,760

it was behind the rack and lost forever

744

00:27:51,990 --> 00:27:49,760

probably in like two years somebody's

745

00:27:53,510 --> 00:27:52,000

gonna be cleaning an air vent and go oh

746

00:27:55,269 --> 00:27:53,520

hey look a wrench i wonder where that

747

00:27:57,269 --> 00:27:55,279

came from so

748

00:27:58,630 --> 00:27:57,279

there are some times you really miss

749

00:28:03,590 --> 00:27:58,640

gravity but

750

00:28:05,110 --> 00:28:03,600

about 99.9 of the time you don't

751

00:28:07,029 --> 00:28:05,120

all right well i mean first off i just

752

00:28:08,389 --> 00:28:07,039

want to say i fully support your new

753

00:28:10,149 --> 00:28:08,399

perspective because i want to go to

754

00:28:11,510 --> 00:28:10,159

space so jack do everything you can to

755

00:28:12,789 --> 00:28:11,520

get me up there

756

00:28:14,310 --> 00:28:12,799

um

757

00:28:15,430 --> 00:28:14,320

so you're getting close to coming home

758

00:28:17,590 --> 00:28:15,440

you're coming home the beginning of

759

00:28:18,870 --> 00:28:17,600

september is there anything left on the

760

00:28:20,549 --> 00:28:18,880

list that you want to do while you're up

761

00:28:24,789 --> 00:28:20,559

there is there like a space bucket list

762

00:28:29,110 --> 00:28:27,029

there is and there's it's such a huge

763

00:28:30,870 --> 00:28:29,120

list you can kind of get overwhelmed by

764

00:28:31,990 --> 00:28:30,880

it you know i want to picture this or

765

00:28:34,149 --> 00:28:32,000

that or

766

00:28:36,950 --> 00:28:34,159

you know

767

00:28:38,389 --> 00:28:36,960

i i i made a list and i said i'm not

768

00:28:40,950 --> 00:28:38,399

going to add anything else to it so i'm

769

00:28:43,510 --> 00:28:40,960

almost through it uh as far as the stuff

770

00:28:45,830 --> 00:28:43,520

i want to take pictures of or record or

771

00:28:48,549 --> 00:28:45,840

or grab and and

772

00:28:49,590 --> 00:28:48,559

and then i'm going to take all my spare

773

00:28:53,190 --> 00:28:49,600

time

774

00:28:55,909 --> 00:28:53,200

and and just go down and grab a window

775

00:28:58,710 --> 00:28:55,919

or whatever and sit there and soak it up

776

00:29:01,350 --> 00:28:58,720

and just enjoy it and and and take a

777

00:29:02,789 --> 00:29:01,360

mental image so that i can fuel that

778

00:29:05,750 --> 00:29:02,799

passion and and

779

00:29:08,310 --> 00:29:05,760

when i come back to try to talk to

780

00:29:10,789 --> 00:29:08,320

people and get them excited about space

781

00:29:13,510 --> 00:29:10,799

it it's there's a there's a big old well

782

00:29:15,750 --> 00:29:13,520

of of passion inside me because i i just

783

00:29:18,070 --> 00:29:15,760

sat there and plugged into the

784

00:29:20,870 --> 00:29:18,080

inspiration bar in the cupola

785

00:29:22,950 --> 00:29:20,880

you look out especially not just down at

786

00:29:26,549 --> 00:29:22,960

earth but out towards the stars and it

787

00:29:28,549 --> 00:29:26,559

can't help but make you so excited

788

00:29:31,510 --> 00:29:28,559

that there's something else out there

789

00:29:32,389 --> 00:29:31,520

that we're gonna go and explore and and

790

00:29:34,230 --> 00:29:32,399

uh

791

00:29:37,029 --> 00:29:34,240

i can't wait

792

00:29:39,269 --> 00:29:37,039

wow just jack this has been such an

793

00:29:41,590 --> 00:29:39,279

incredible few minutes uh with you thank

794

00:29:43,350 --> 00:29:41,600

you so much for actually taking the time

795

00:29:45,750 --> 00:29:43,360

to talk with us and to answer some

796

00:29:47,990 --> 00:29:45,760

questions from facebook live and to to

797

00:29:49,669 --> 00:29:48,000

spend this time with us honestly this is

798

00:29:51,990 --> 00:29:49,679

one of the best experiences of my life

799

00:29:54,310 --> 00:29:52,000

if i had to pin it into a phrase and

800

00:29:56,870 --> 00:29:54,320

this is just off the top of my head i'd

801
00:29:59,269 --> 00:29:56,880
pin it as something like a triple decker

802
00:30:01,110 --> 00:29:59,279
fully loaded burger of awesome between

803
00:30:03,029 --> 00:30:01,120
two perfectly toasted awesome buns

804
00:30:04,630 --> 00:30:03,039
nailed it that's uh that's just off the

805
00:30:06,389 --> 00:30:04,640
top of my head but again thank you so

806
00:30:08,310 --> 00:30:06,399
much for spending this time with me and

807
00:30:11,750 --> 00:30:08,320
uh and uh best of luck to you on the

808
00:30:15,269 --> 00:30:13,269
well thanks a lot i'll try to say

809
00:30:17,430 --> 00:30:15,279
goodbye while i'm spinning if i run into

810
00:30:19,510 --> 00:30:17,440
something you can laugh but thank you

811
00:30:22,070 --> 00:30:19,520
for letting me be a part of this and i

812
00:30:23,350 --> 00:30:22,080
hope everybody that's in the the podcast

813
00:30:25,350 --> 00:30:23,360

universe

814

00:30:27,510 --> 00:30:25,360

had a great time please

815

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

if you if you get excited about space

816

00:30:32,230 --> 00:30:30,559

nasa.com we have so many resources so

817

00:30:34,149 --> 00:30:32,240

many ways that you can get engaged

818

00:30:38,070 --> 00:30:34,159

whether you're a teacher a student just

819

00:30:40,310 --> 00:30:38,080

a guy on the street please check it out

820

00:30:42,549 --> 00:30:40,320

wow

821

00:30:45,750 --> 00:30:42,559

station this is houston acr that

822

00:30:54,789 --> 00:30:48,310

thank you all participants with jscpao

823

00:30:54,799 --> 00:30:58,149

all right

824

00:31:02,149 --> 00:30:59,909

so we just talked to somebody in space

825

00:31:05,350 --> 00:31:02,159

that was really cool it was really cool

826

00:31:07,350 --> 00:31:05,360

how cool is that wow i just i i really

827

00:31:09,029 --> 00:31:07,360

just appreciate his energy you know the

828

00:31:11,029 --> 00:31:09,039

just the life that he has it's not just

829

00:31:13,669 --> 00:31:11,039

like a conversation this is what i'm

830

00:31:15,990 --> 00:31:13,679

doing no he's he's he's truly passionate

831

00:31:17,509 --> 00:31:16,000

about being in space and and

832

00:31:19,110 --> 00:31:17,519

pressing forward on nasa's mission it

833

00:31:20,950 --> 00:31:19,120

totally comes across as everything is

834

00:31:22,870 --> 00:31:20,960

it's just it's still surreal because i

835

00:31:24,710 --> 00:31:22,880

mean we're for everybody watching you

836

00:31:26,549 --> 00:31:24,720

can see we're we were looking at jack on

837

00:31:28,230 --> 00:31:26,559

the tv i mean it looks like he's five

838

00:31:29,669 --> 00:31:28,240

feet away from us when in reality he's

839

00:31:32,070 --> 00:31:29,679

probably on the other side of the planet

840

00:31:34,710 --> 00:31:32,080

right now flying around like here we are

841

00:31:36,870 --> 00:31:34,720

talking to him so i it's it's so cool

842

00:31:38,870 --> 00:31:36,880

and way to nail that closing

843

00:31:40,180 --> 00:31:38,880

way to nail the goodbye gary it was just

844

00:31:42,149 --> 00:31:40,190

off the top just the top here

845

00:31:44,710 --> 00:31:42,159

[Laughter]

846

00:31:46,870 --> 00:31:44,720

awesome well honestly you can uh so so

847

00:31:49,190 --> 00:31:46,880

everything honestly jack is is a really

848

00:31:51,669 --> 00:31:49,200

cool person to follow on social media if

849

00:31:53,789 --> 00:31:51,679

you ever go on facebook twitter or

850

00:31:55,830 --> 00:31:53,799

instagram which you should follow at

851
00:31:57,990 --> 00:31:55,840
astro2fish that's his that's his handle

852
00:31:59,509 --> 00:31:58,000
right he shares all these different

853
00:32:01,190 --> 00:31:59,519
photos of what he's doing all the

854
00:32:03,430 --> 00:32:01,200
experiments he's doing

855
00:32:05,029 --> 00:32:03,440
photos of earth and he's uh he's just

856
00:32:07,110 --> 00:32:05,039
super engaged in the mission you can see

857
00:32:08,549 --> 00:32:07,120
everything he's doing there uh really an

858
00:32:09,750 --> 00:32:08,559
incredible thing to follow if you just

859
00:32:11,110 --> 00:32:09,760
want to follow everything on the

860
00:32:13,990 --> 00:32:11,120
international space station we have

861
00:32:15,350 --> 00:32:14,000
those two at iss i think is yeah space

862
00:32:16,950 --> 00:32:15,360
underscores there's a whole bunch of

863
00:32:19,110 --> 00:32:16,960

different sites you can follow as he

864

00:32:20,310 --> 00:32:19,120

said it's nasa.gov for pretty much

865

00:32:22,149 --> 00:32:20,320

everything nasa's doing if you're

866

00:32:25,350 --> 00:32:22,159

interested in the space station it's

867

00:32:27,350 --> 00:32:25,360

nasa.gov iss we're all across social

868

00:32:28,710 --> 00:32:27,360

media facebook twitter and instagram

869

00:32:30,630 --> 00:32:28,720

those names are all a little bit

870

00:32:32,630 --> 00:32:30,640

different but it's all related to the

871

00:32:34,710 --> 00:32:32,640

space station and we always like to get

872

00:32:37,029 --> 00:32:34,720

questions on everything so use hashtag

873

00:32:39,269 --> 00:32:37,039

ask nasa and we'll get as to as many as

874

00:32:41,509 --> 00:32:39,279

we can and since i don't want to make to

875

00:32:43,830 --> 00:32:41,519

make gary do his own shameless plug we

876

00:32:45,509 --> 00:32:43,840

have a podcast it's incredible

877

00:32:47,590 --> 00:32:45,519

if you're ever wanting to go behind the

878

00:32:49,750 --> 00:32:47,600

scenes with the people that make human

879

00:32:51,350 --> 00:32:49,760

space flight happen that's where you get

880

00:32:53,509 --> 00:32:51,360

it you get the deep dives you get the

881

00:32:55,350 --> 00:32:53,519

experts you get the full thing and i

882

00:32:57,590 --> 00:32:55,360

occasionally get to come in and do fun

883

00:32:59,669 --> 00:32:57,600

stuff like this so it's true we've

884

00:33:03,909 --> 00:32:59,679

talked to some really cool people so far

885

00:33:05,509 --> 00:33:03,919

you being one of them of course dan

886

00:33:08,710 --> 00:33:05,519

but we have talked to three astronauts

887

00:33:10,389 --> 00:33:08,720

so far uh we have just you know jack

888

00:33:12,470 --> 00:33:10,399

fisher today but also randy bresnik

889

00:33:14,149 --> 00:33:12,480

who's up in space right now and uh we

890

00:33:15,830 --> 00:33:14,159

also got to talk to shane kimbrough like

891

00:33:17,430 --> 00:33:15,840

two days after he landed and he gave

892

00:33:19,029 --> 00:33:17,440

that whole experience but then we talk

893

00:33:20,870 --> 00:33:19,039

about the science we talk about space

894

00:33:22,389 --> 00:33:20,880

food we got a lot more cool episodes

895

00:33:24,470 --> 00:33:22,399

coming up so stay tuned you can find all

896

00:33:25,990 --> 00:33:24,480

those on itunes soundcloud at nasa.gov

897

00:33:27,830 --> 00:33:26,000

like dan said

898

00:33:29,430 --> 00:33:27,840

so i think that's going to wrap up

899

00:33:30,870 --> 00:33:29,440

unless there's any more questions well

900

00:33:32,549 --> 00:33:30,880

i'm sure there's a lot of questions but

901
00:33:35,110 --> 00:33:32,559
uh we'll save those for actually you

902
00:33:37,590 --> 00:33:35,120
could tweet at astro2fish he might uh he

903
00:33:38,950 --> 00:33:37,600
might answer a couple of those for you

904
00:33:40,470 --> 00:33:38,960
awesome well thank you so much for

905
00:33:42,710 --> 00:33:40,480
tuning in today for the first live

906
00:33:44,389 --> 00:33:42,720
recording of houston we have a podcast

907
00:33:46,149 --> 00:33:44,399
uh that'll do it for us here and hope

908
00:33:47,750 --> 00:33:46,159
you uh keep listening to us in the

909
00:33:48,870 --> 00:33:47,760
future if you have any suggestions on

910
00:33:51,350 --> 00:33:48,880
what we should put on the show put in

911
00:34:09,510 --> 00:33:51,360
the comments or use the hashtag asknasa