



1
00:00:03,750 --> 00:00:01,829
associated press this is mission control

2
00:00:05,190 --> 00:00:03,760
houston please call station for a voice

3
00:00:13,830 --> 00:00:05,200
check

4
00:00:21,830 --> 00:00:14,950
station

5
00:00:26,150 --> 00:00:24,150
uh okay marcia you're a little bit

6
00:00:27,670 --> 00:00:26,160
broken

7
00:00:29,669 --> 00:00:27,680
well i'll

8
00:00:30,710 --> 00:00:29,679
get started i have an echo in my ear as

9
00:00:33,190 --> 00:00:30,720
well

10
00:00:34,709 --> 00:00:33,200
uh greetings gentlemen from the kenned

11
00:00:36,870 --> 00:00:34,719
space center

12
00:00:39,830 --> 00:00:36,880
i'd like to start off with a progress

13
00:00:42,950 --> 00:00:39,840

update how optimistic are you that the

14

00:00:45,110 --> 00:00:42,960

progress can be self at this point

15

00:00:49,590 --> 00:00:45,120

and is it unfortunately a goner in your

16

00:00:55,750 --> 00:00:53,110

well we were both told recently uh by

17

00:00:57,029 --> 00:00:55,760

both the u.s and russian flight control

18

00:00:59,029 --> 00:00:57,039

centers that

19

00:01:02,150 --> 00:00:59,039

uh rus cosmos announced that the

20

00:01:03,349 --> 00:01:02,160

progress will not be docking uh and will

21

00:01:05,830 --> 00:01:03,359

re-enter

22

00:01:07,670 --> 00:01:05,840

the earth's atmosphere here some uh some

23

00:01:09,750 --> 00:01:07,680

days in the future to be determined but

24

00:01:11,190 --> 00:01:09,760

the progress is not coming to this

25

00:01:13,109 --> 00:01:11,200

progress is not coming to the space

26

00:01:15,030 --> 00:01:13,119

station

27

00:01:16,950 --> 00:01:15,040

well now tell me

28

00:01:19,030 --> 00:01:16,960

what kind of an impact do you expect on

29

00:01:21,030 --> 00:01:19,040

your day-to-day life up there and was

30

00:01:26,710 --> 00:01:21,040

there something in particular you had

31

00:01:30,789 --> 00:01:28,390

well we have a a lot of redundancy on

32

00:01:32,469 --> 00:01:30,799

board the space station we we uh you

33

00:01:33,749 --> 00:01:32,479

know the the program plans for these

34

00:01:35,990 --> 00:01:33,759

kind of things to happen they're very

35

00:01:37,190 --> 00:01:36,000

unfortunate when they do but we do have

36

00:01:40,149 --> 00:01:37,200

um

37

00:01:41,270 --> 00:01:40,159

we do have supplies on board and

38

00:01:42,950 --> 00:01:41,280

you know

39

00:01:44,630 --> 00:01:42,960

one of the great things about the this

40

00:01:46,870 --> 00:01:44,640

international partnership is that we do

41

00:01:48,789 --> 00:01:46,880

have other vehicles that can resupply

42

00:01:50,550 --> 00:01:48,799

the space station you know when we had

43

00:01:52,870 --> 00:01:50,560

the columbia accident we were fortunate

44

00:01:54,950 --> 00:01:52,880

to have the soyuz to be able to keep the

45

00:01:58,550 --> 00:01:54,960

space station manned and and we have

46

00:02:00,870 --> 00:01:58,560

other vehicles uh now uh spacex htv and

47

00:02:03,990 --> 00:02:00,880

hopefully orbital soon that can continue

48

00:02:07,350 --> 00:02:04,000

to resupply us so uh we should be okay

49

00:02:10,309 --> 00:02:07,360

long-term impact uh you know the both

50

00:02:11,830 --> 00:02:10,319

programs are looking at that right now

51
00:02:19,910 --> 00:02:11,840
but i think we're going to be in good

52
00:02:24,710 --> 00:02:23,030
partial liking to like an inclination i

53
00:02:27,030 --> 00:02:24,720
should say was there anything in

54
00:02:28,949 --> 00:02:27,040
particular that you'd you're really

55
00:02:34,229 --> 00:02:28,959
sorry that you're not going to get at

56
00:02:38,790 --> 00:02:36,630
well i'm not familiar with everything

57
00:02:40,790 --> 00:02:38,800
that was on the vehicle i know uh the

58
00:02:43,910 --> 00:02:40,800
stuff that was on the

59
00:02:46,550 --> 00:02:43,920
the manifested for the u.s operational

60
00:02:49,990 --> 00:02:46,560
segment which was a lot of uh clothing

61
00:02:51,589 --> 00:02:50,000
for uh chell uh lindgren and

62
00:02:54,309 --> 00:02:51,599
kimia ue

63
00:02:55,110 --> 00:02:54,319

also some eba hardware

64

00:02:56,869 --> 00:02:55,120

but

65

00:02:59,350 --> 00:02:56,879

you know the important thing is hardware

66

00:03:01,350 --> 00:02:59,360

can be replaced and we'll replace all

67

00:03:03,270 --> 00:03:01,360

that hardware and

68

00:03:05,030 --> 00:03:03,280

we'll continue to operate the space

69

00:03:06,710 --> 00:03:05,040

station

70

00:03:09,190 --> 00:03:06,720

all right well moving on to other

71

00:03:11,110 --> 00:03:09,200

matters you're one month into a one year

72

00:03:13,509 --> 00:03:11,120

mission uh what's been the hardest and

73

00:03:20,309 --> 00:03:13,519

easiest thing to get used to so far i'll

74

00:03:25,509 --> 00:03:23,110

well for for me uh nothing's been hard

75

00:03:26,470 --> 00:03:25,519

to get used to

76

00:04:10,789 --> 00:03:26,480

i

77

00:04:11,830 --> 00:04:10,799

so

78

00:04:13,110 --> 00:04:11,840

good

79

00:04:15,190 --> 00:04:13,120

team

80

00:04:16,629 --> 00:04:15,200

i have don't worry

81

00:04:19,670 --> 00:04:16,639

about anything

82

00:04:21,270 --> 00:04:19,680

of course progress is a

83

00:04:25,350 --> 00:04:21,280

big concern

84

00:04:25,360 --> 00:04:28,629

noise

85

00:04:33,430 --> 00:04:31,830

it slightly changes our plans but as

86

00:04:34,790 --> 00:04:33,440

scott said

87

00:04:35,830 --> 00:04:34,800

we are

88

00:04:37,110 --> 00:04:35,840

quiet

89

00:04:39,830 --> 00:04:37,120

and we

90

00:04:42,550 --> 00:04:39,840

are 100 percent confident that we will

91

00:04:45,189 --> 00:04:42,560

be living and working very productively

92

00:04:47,510 --> 00:04:45,199

on board of the international space and

93

00:04:49,430 --> 00:04:47,520

up until the time when the next cargo

94

00:04:52,150 --> 00:04:49,440

vehicle is going to come

95

00:04:54,310 --> 00:04:52,160

and we don't have any problems we have

96

00:04:56,390 --> 00:04:54,320

outstanding psychological support and

97

00:04:58,790 --> 00:04:56,400

everything is fine with the

98

00:05:01,189 --> 00:04:58,800

slight exception of the progress

99

00:05:02,070 --> 00:05:01,199

situation

100

00:05:03,590 --> 00:05:02,080

oh

101
00:05:05,189 --> 00:05:03,600
thank you uh what are some of the

102
00:05:12,070 --> 00:05:05,199
biggest changes up there that you've

103
00:05:14,950 --> 00:05:12,950
um

104
00:05:17,909 --> 00:05:14,960
when i was here last we had just gotten

105
00:05:19,189 --> 00:05:17,919
the pmm on board the space station and

106
00:05:20,629 --> 00:05:19,199
uh

107
00:05:24,070 --> 00:05:20,639
you know now

108
00:05:26,310 --> 00:05:24,080
we're using it for a lot of our

109
00:05:27,749 --> 00:05:26,320
stowage so that's cleared up a lot of

110
00:05:30,070 --> 00:05:27,759
other areas

111
00:05:32,550 --> 00:05:30,080
on board the space station so that's one

112
00:05:34,950 --> 00:05:32,560
change it makes working uh easier when

113
00:05:36,469 --> 00:05:34,960

you don't have as much stuff

114

00:05:38,469 --> 00:05:36,479

you know in your way

115

00:05:39,350 --> 00:05:38,479

in the in the working modules so that's

116

00:05:40,950 --> 00:05:39,360

nice

117

00:05:42,550 --> 00:05:40,960

we have four space to ground channels

118

00:05:45,270 --> 00:05:42,560

now that's very helpful

119

00:05:47,029 --> 00:05:45,280

um that kind of smooths out operations

120

00:05:48,710 --> 00:05:47,039

with regards to our ability to

121

00:05:51,510 --> 00:05:48,720

communicate with the ground

122

00:05:53,029 --> 00:05:51,520

um we also have ipads that we use for

123

00:05:55,510 --> 00:05:53,039

some procedures and that gives you a

124

00:05:59,029 --> 00:05:55,520

little bit more flexibility on uh

125

00:06:02,629 --> 00:05:59,039

on you know working in uh you know tight

126

00:06:04,150 --> 00:06:02,639

or awkward locations on board and uh you

127

00:06:06,629 --> 00:06:04,160

know having the procedure right there

128

00:06:10,230 --> 00:06:06,639

with you so that's uh

129

00:06:12,150 --> 00:06:10,240

some of the changes positive changes all

130

00:06:14,309 --> 00:06:12,160

otherwise the space station really looks

131

00:06:16,150 --> 00:06:14,319

a lot like it did

132

00:06:18,390 --> 00:06:16,160

uh you know for me

133

00:06:20,469 --> 00:06:18,400

uh four years ago which is a good sign i

134

00:06:23,189 --> 00:06:20,479

think it's you know great material

135

00:06:24,629 --> 00:06:23,199

condition here on board and

136

00:06:27,029 --> 00:06:24,639

we should be able to continue to do

137

00:06:29,990 --> 00:06:27,039

great work here for many many years to

138

00:06:36,150 --> 00:06:33,590

well you mentioned ipads i also heard a

139

00:06:39,670 --> 00:06:36,160

noted that you've got a big screen tv so

140

00:06:41,430 --> 00:06:39,680

to speak for uh updates for trainings

141

00:06:43,430 --> 00:06:41,440

for movies

142

00:06:45,749 --> 00:06:43,440

tell me more about that

143

00:06:52,469 --> 00:06:45,759

how you're putting it to use and how

144

00:06:56,870 --> 00:06:54,790

well currently or prior to getting the

145

00:06:58,469 --> 00:06:56,880

hd projector

146

00:07:00,710 --> 00:06:58,479

we

147

00:07:02,230 --> 00:07:00,720

use the laptops and

148

00:07:03,990 --> 00:07:02,240

when you're doing a video conference on

149

00:07:06,070 --> 00:07:04,000

the laptops you know the people on the

150

00:07:07,430 --> 00:07:06,080

other end are small if you want to show

151
00:07:10,070 --> 00:07:07,440
us hardware

152
00:07:11,909 --> 00:07:10,080
or you know write on a whiteboard for

153
00:07:13,589 --> 00:07:11,919
instance that kind of thing doing it on

154
00:07:15,749 --> 00:07:13,599
the laptop makes it a little bit more

155
00:07:18,150 --> 00:07:15,759
challenging

156
00:07:20,710 --> 00:07:18,160
also we have some software that we

157
00:07:23,110 --> 00:07:20,720
often use for training on the laptop

158
00:07:26,070 --> 00:07:23,120
and sometimes like for

159
00:07:28,070 --> 00:07:26,080
eva procedure reviews you might all get

160
00:07:31,110 --> 00:07:28,080
around one laptop

161
00:07:32,950 --> 00:07:31,120
and you know talk about translation pass

162
00:07:34,629 --> 00:07:32,960
and work sites

163
00:07:36,469 --> 00:07:34,639

on this hardware that are in the

164

00:07:38,629 --> 00:07:36,479

software that we use to

165

00:07:41,029 --> 00:07:38,639

display the outside of the space station

166

00:07:42,390 --> 00:07:41,039

now we can do it on a much bigger

167

00:07:44,629 --> 00:07:42,400

bigger screen

168

00:07:47,510 --> 00:07:44,639

and we can also use it to watch

169

00:07:49,110 --> 00:07:47,520

television and and watch movies so

170

00:07:51,430 --> 00:07:49,120

you know it serves a work purpose it

171

00:07:53,990 --> 00:07:51,440

also serves an entertainment purpose

172

00:07:55,670 --> 00:07:54,000

and it's really a welcome improvement on

173

00:07:57,990 --> 00:07:55,680

board

174

00:08:02,390 --> 00:07:58,000

how big is that screen how many inches

175

00:08:06,790 --> 00:08:04,550

it's pretty the screen itself

176

00:08:09,430 --> 00:08:06,800

we have a screen we put up is pretty big

177

00:08:10,950 --> 00:08:09,440

um but you know it's

178

00:08:13,110 --> 00:08:10,960

we don't leave it up all the time we've

179

00:08:15,589 --> 00:08:13,120

only used it twice to watch

180

00:08:19,430 --> 00:08:15,599

a couple of movies it's probably about

181

00:08:21,510 --> 00:08:19,440

i'd say 60 inches maybe 65 inches

182

00:08:23,430 --> 00:08:21,520

but we put it away immediately like i

183

00:08:24,790 --> 00:08:23,440

said it's big it gets in the way but we

184

00:08:27,270 --> 00:08:24,800

also

185

00:08:30,390 --> 00:08:27,280

project this the uh the projector

186

00:08:32,550 --> 00:08:30,400

projects also on a smaller

187

00:08:34,149 --> 00:08:32,560

makeshift screen that we use some fire

188

00:08:35,990 --> 00:08:34,159

retardant uh

189

00:08:38,230 --> 00:08:36,000

what's called a ctb

190

00:08:41,110 --> 00:08:38,240

dividers that we have out all the time

191

00:08:42,870 --> 00:08:41,120

so the the projector is used more

192

00:08:44,710 --> 00:08:42,880

for other things you know watching the

193

00:08:46,710 --> 00:08:44,720

news and like i said the video

194

00:08:49,590 --> 00:08:46,720

conferences the software where we don't

195

00:08:52,710 --> 00:08:49,600

use the screen itself so um the screen's

196

00:08:54,710 --> 00:08:52,720

great for movies but it's uh not out

197

00:08:56,870 --> 00:08:54,720

hardly at all

198

00:08:59,030 --> 00:08:56,880

well my last question

199

00:09:01,430 --> 00:08:59,040

how cool is it to watch a space movie in

200

00:09:03,670 --> 00:09:01,440

space i can't help but ask that have you

201

00:09:05,190 --> 00:09:03,680

tried the espresso yet and

202

00:09:07,269 --> 00:09:05,200

signing off from

203

00:09:10,790 --> 00:09:07,279

kennedy space center godspeed and good

204

00:09:14,310 --> 00:09:12,630

thanks marcia yeah we uh we have not

205

00:09:16,310 --> 00:09:14,320

used the espresso machine yet it's in

206

00:09:17,670 --> 00:09:16,320

the process samantha's in the process of

207

00:09:18,630 --> 00:09:17,680

setting it up

208

00:09:21,430 --> 00:09:18,640

and

209

00:09:23,590 --> 00:09:21,440

yeah it's cool to watch movies in space

210

00:09:25,670 --> 00:09:23,600

interesting watching uh you know a movie

211

00:09:28,230 --> 00:09:25,680

about the space station in space

212

00:09:30,230 --> 00:09:28,240

uh really uh impressed at how realistic

213

00:09:32,710 --> 00:09:30,240

uh the the inside and outside of the

214

00:09:34,710 --> 00:09:32,720

space station looked we've all seen that

215

00:09:36,870 --> 00:09:34,720

movie before so it wasn't new but it was

216

00:09:42,630 --> 00:09:36,880

uh interesting to see it from this

217

00:09:47,269 --> 00:09:45,110

station this is houston acr that

218

00:09:49,590 --> 00:09:47,279

concludes the associated press portion

219

00:09:53,750 --> 00:09:49,600

of the event please stand by for a voice

220

00:09:59,990 --> 00:09:55,990

station this is westwood one how do you

221

00:10:05,590 --> 00:10:03,190

westwood one we hear you loud and clear

222

00:10:07,350 --> 00:10:05,600

great

223

00:10:09,269 --> 00:10:07,360

joining us from the international space

224

00:10:11,590 --> 00:10:09,279

station astronaut scott kelly and

225

00:10:14,550 --> 00:10:11,600

cosmonaut mikhail kornienko crew members

226

00:10:16,870 --> 00:10:14,560

with a one-year mission aboard the iss

227

00:10:19,350 --> 00:10:16,880

the most comprehensive test yet of long

228

00:10:26,389 --> 00:10:19,360

duration space flight and zero gravity

229

00:10:29,750 --> 00:10:27,910

scott good morning good morning to you

230

00:10:31,990 --> 00:10:29,760

i'm not sure where you are you might

231

00:10:34,389 --> 00:10:32,000

be in los angeles but greetings to you

232

00:10:37,829 --> 00:10:34,399

there in uh in the u.s

233

00:10:41,829 --> 00:10:39,670

you've both been in space for a month

234

00:10:44,949 --> 00:10:41,839

now and won't return to earth until the

235

00:10:50,630 --> 00:10:44,959

spring of 2016. how far away does that

236

00:10:54,389 --> 00:10:52,310

well i'm trying not to think about how

237

00:10:56,389 --> 00:10:54,399

far away that is because it is pretty it

238

00:10:58,069 --> 00:10:56,399

is pretty far um

239

00:11:00,870 --> 00:10:58,079

you know i'm kind of taking this uh one

240

00:11:02,710 --> 00:11:00,880

day at a time looking ahead uh you know

241

00:11:05,269 --> 00:11:02,720

a little bit into the future for work

242

00:11:07,829 --> 00:11:05,279

related and planning purposes but trying

243

00:11:09,030 --> 00:11:07,839

not to you know count down the days

244

00:11:10,470 --> 00:11:09,040

um

245

00:11:12,389 --> 00:11:10,480

you know to

246

00:11:13,829 --> 00:11:12,399

when i get home you know a friend of

247

00:11:16,310 --> 00:11:13,839

mine suggested maybe it's better to

248

00:11:17,829 --> 00:11:16,320

count the days count up versus counting

249

00:11:20,710 --> 00:11:17,839

down haven't started doing that yet

250

00:11:23,750 --> 00:11:20,720

either but uh you know a year is a long

251

00:11:25,430 --> 00:11:23,760

time this is close to a year here um but

252

00:11:27,030 --> 00:11:25,440

i haven't started thinking about you

253

00:11:29,190 --> 00:11:27,040

know the end of it yet

254

00:11:31,030 --> 00:11:29,200

your physiological changes are gonna be

255

00:11:34,069 --> 00:11:31,040

compared to twin brother retired

256

00:11:36,230 --> 00:11:34,079

astronaut mark kelly back on earth so uh

257

00:11:42,150 --> 00:11:36,240

you get the glory here scott puts a new

258

00:11:47,430 --> 00:11:44,470

my brother's uh really happy that he can

259

00:11:49,990 --> 00:11:47,440

still participate uh with our program

260

00:11:51,590 --> 00:11:50,000

with the space program in nasa uh in

261

00:11:53,350 --> 00:11:51,600

this study so

262

00:11:55,990 --> 00:11:53,360

uh you know he retired a number of years

263

00:11:58,710 --> 00:11:56,000

ago had a very uh you know productive

264

00:12:00,710 --> 00:11:58,720

and uh successful career at nasa so he's

265

00:12:02,949 --> 00:12:00,720

just happy to be a part of it and uh i

266

00:12:04,949 --> 00:12:02,959

am too you know we just

267

00:12:06,230 --> 00:12:04,959

you know often in life you serve in

268

00:12:08,069 --> 00:12:06,240

different roles and this is these are

269

00:12:13,750 --> 00:12:08,079

the roles we have right now

270

00:12:17,030 --> 00:12:14,870

uh

271

00:12:20,310 --> 00:12:17,040

neither

272

00:12:30,629 --> 00:12:22,550

is that is there ever a question scott

273

00:12:33,430 --> 00:12:31,509

well

274

00:12:35,190 --> 00:12:33,440

you know i wouldn't say board because

275

00:12:37,269 --> 00:12:35,200

it's a you know very interesting

276

00:12:38,629 --> 00:12:37,279

environment there's a lot of work to do

277

00:12:40,150 --> 00:12:38,639

here

278

00:12:41,269 --> 00:12:40,160

we do a lot of

279

00:12:44,389 --> 00:12:41,279

great

280

00:12:47,910 --> 00:12:45,110

but

281

00:12:49,910 --> 00:12:47,920

you do never leave you never get to

282

00:12:51,910 --> 00:12:49,920

leave your place of work so that makes

283

00:12:53,910 --> 00:12:51,920

it somewhat of a somewhat of a mental

284

00:12:56,069 --> 00:12:53,920

challenge there where you you're kind of

285

00:12:59,030 --> 00:12:56,079

always on you always feel like

286

00:13:00,949 --> 00:12:59,040

you can never relax completely so i

287

00:13:01,990 --> 00:13:00,959

would never say the place gets boring

288

00:13:04,790 --> 00:13:02,000

but

289

00:13:06,790 --> 00:13:04,800

you know you do never get to leave

290

00:13:08,470 --> 00:13:06,800

how is the exercise equipment we

291

00:13:10,870 --> 00:13:08,480

understand you spend a good deal of time

292

00:13:13,829 --> 00:13:10,880

on both the arid the advanced resistive

293

00:13:18,310 --> 00:13:13,839

exercise device and the treadmill named

294

00:13:21,670 --> 00:13:19,829

the exercise you know we have that

295

00:13:23,590 --> 00:13:21,680

exercise equipment we also have exercise

296

00:13:25,590 --> 00:13:23,600

equipment in the uh russian segment that

297

00:13:26,470 --> 00:13:25,600

the cosmonauts use they have a treadmill

298

00:13:28,310 --> 00:13:26,480

and a

299

00:13:30,470 --> 00:13:28,320

cycle ergometer and we have a cycle

300

00:13:33,110 --> 00:13:30,480

ergometer here as well

301
00:13:35,990 --> 00:13:33,120
um the exercise equipment's great uh

302
00:13:37,350 --> 00:13:36,000
this particularly the resistive exercise

303
00:13:39,829 --> 00:13:37,360
device we have

304
00:13:42,389 --> 00:13:39,839
um it makes it seem like you're lifting

305
00:13:44,550 --> 00:13:42,399
real weight in space and often when you

306
00:13:47,509 --> 00:13:44,560
have a you know weightlifting device on

307
00:13:48,949 --> 00:13:47,519
earth and it's not uh you know something

308
00:13:51,350 --> 00:13:48,959
or something that doesn't use real

309
00:13:52,870 --> 00:13:51,360
weight you can all often tell this feels

310
00:13:55,829 --> 00:13:52,880
like the real thing which is really a

311
00:13:57,269 --> 00:13:55,839
testament to the the great uh team that

312
00:13:59,910 --> 00:13:57,279
built this

313
00:14:02,069 --> 00:13:59,920

what's called a red advanced resistive

314

00:14:03,430 --> 00:14:02,079

exercise device that you know we all

315

00:14:04,629 --> 00:14:03,440

come to love up here on the space

316

00:14:06,790 --> 00:14:04,639

station

317

00:14:08,790 --> 00:14:06,800

do you think the changes in your body

318

00:14:16,470 --> 00:14:08,800

over this period of time will be

319

00:14:22,150 --> 00:14:18,870

you know there's uh a lot we know

320

00:14:25,509 --> 00:14:22,160

already about the the changes that occur

321

00:14:28,389 --> 00:14:25,519

um over time in space we know we lose uh

322

00:14:30,470 --> 00:14:28,399

bone mass and we you know exercise a lot

323

00:14:32,389 --> 00:14:30,480

to mitigate that we lose

324

00:14:35,829 --> 00:14:32,399

we can lose muscle mass but also the

325

00:14:37,269 --> 00:14:35,839

exercise prevents that we have

326

00:14:39,269 --> 00:14:37,279

you know recently discovered a

327

00:14:41,269 --> 00:14:39,279

phenomenon with people's vision and

328

00:14:43,030 --> 00:14:41,279

swelling of the optic nerve and other

329

00:14:45,430 --> 00:14:43,040

structural changes that occur within the

330

00:14:46,470 --> 00:14:45,440

eye and that's something that we're you

331

00:14:49,110 --> 00:14:46,480

know

332

00:14:50,710 --> 00:14:49,120

very hard at work investigating uh

333

00:14:52,310 --> 00:14:50,720

trying to learn more about it to come up

334

00:14:54,230 --> 00:14:52,320

with countermeasures so

335

00:14:56,629 --> 00:14:54,240

uh with regards to that i don't know

336

00:14:58,790 --> 00:14:56,639

what the results will be if it's uh you

337

00:15:00,550 --> 00:14:58,800

know we're gonna see similar things to a

338

00:15:03,509 --> 00:15:00,560

six-month flight or if there's some

339

00:15:06,550 --> 00:15:03,519

increase or you know potentially that

340

00:15:08,069 --> 00:15:06,560

um those changes level off at a certain

341

00:15:08,949 --> 00:15:08,079

point that's something we're looking at

342

00:15:10,550 --> 00:15:08,959

also

343

00:15:12,470 --> 00:15:10,560

you know the effect of uh you know

344

00:15:15,590 --> 00:15:12,480

radiation in the space environment on

345

00:15:17,829 --> 00:15:15,600

our on us on a genetic uh level with

346

00:15:19,670 --> 00:15:17,839

regards to you know our rna and dna

347

00:15:21,910 --> 00:15:19,680

that's something that this study with my

348

00:15:23,030 --> 00:15:21,920

brother is looking at so

349

00:15:24,230 --> 00:15:23,040

you know i think

350

00:15:26,389 --> 00:15:24,240

some of the things will probably be

351
00:15:28,389 --> 00:15:26,399
similar to the six-month flight and some

352
00:15:31,189 --> 00:15:28,399
may be very much different and that's

353
00:15:33,829 --> 00:15:31,199
why we're here uh investigating these

354
00:15:36,949 --> 00:15:33,839
things to find out and find ways that we

355
00:15:39,269 --> 00:15:36,959
can mitigate these negative effects

356
00:15:41,110 --> 00:15:39,279
scott you watched the movie gravity this

357
00:15:47,590 --> 00:15:41,120
week isn't that kind of like a deep sea

358
00:15:50,949 --> 00:15:49,350
meg it kind of is you know we had all

359
00:15:52,470 --> 00:15:50,959
seen the movie before i thought it'd be

360
00:15:55,749 --> 00:15:52,480
interesting to watch it

361
00:15:57,990 --> 00:15:55,759
up here because it is pretty fascinating

362
00:16:00,790 --> 00:15:58,000
the level of detail that they uh they

363
00:16:02,710 --> 00:16:00,800

were able to recreate in the movie and

364

00:16:04,389 --> 00:16:02,720

how it a lot of it does look very

365

00:16:06,710 --> 00:16:04,399

similar to the space station so it was a

366

00:16:09,350 --> 00:16:06,720

lot of fun to be able to watch that

367

00:16:11,749 --> 00:16:09,360

movie on the space station

368

00:16:14,470 --> 00:16:11,759

so many great exploits in

369

00:16:17,509 --> 00:16:14,480

space starting with yuri gagarin 54

370

00:16:18,790 --> 00:16:17,519

years ago neil armstrong and buzz aldrin

371

00:16:21,990 --> 00:16:18,800

uh

372

00:16:24,550 --> 00:16:22,000

46 years ago nearly 17 years since the

373

00:16:27,030 --> 00:16:24,560

iss was launched what do you suppose

374

00:16:33,189 --> 00:16:27,040

will be the next giant leap for mankind

375

00:16:37,590 --> 00:16:36,389

well you know i i don't know what it'll

376

00:16:43,350 --> 00:16:37,600

be

377

00:16:44,790 --> 00:16:43,360

some time in my lifetime going to uh

378

00:16:47,590 --> 00:16:44,800

you know having people

379

00:16:50,550 --> 00:16:47,600

step foot on mars i think that's a a

380

00:16:52,550 --> 00:16:50,560

great destination and goal for us i hope

381

00:16:56,629 --> 00:16:52,560

that this space station and the research

382

00:16:58,230 --> 00:16:56,639

we do here will help make that happen um

383

00:17:00,230 --> 00:16:58,240

you know this is a great facility for

384

00:17:02,629 --> 00:17:00,240

doing all kinds of research

385

00:17:04,470 --> 00:17:02,639

you know i think one of the the best

386

00:17:05,990 --> 00:17:04,480

experiments about the space station is

387

00:17:07,110 --> 00:17:06,000

the space station itself you know

388

00:17:09,350 --> 00:17:07,120

building a

389

00:17:11,350 --> 00:17:09,360

facility that allows us to live and work

390

00:17:13,590 --> 00:17:11,360

for long periods of time

391

00:17:16,549 --> 00:17:13,600

in this very harsh environment whether

392

00:17:19,750 --> 00:17:16,559

it's producing water from our urine and

393

00:17:22,150 --> 00:17:19,760

using that water to produce oxygen and

394

00:17:24,390 --> 00:17:22,160

use it for us to consume to sustain our

395

00:17:27,909 --> 00:17:24,400

lives to scrubbing the atmosphere of

396

00:17:32,549 --> 00:17:30,789

producing electricity from the solar

397

00:17:35,110 --> 00:17:32,559

arrays and keeping all these systems

398

00:17:38,390 --> 00:17:35,120

operating uh you know

399

00:17:41,590 --> 00:17:38,400

24 7 365 days a year like you said for

400

00:17:42,630 --> 00:17:41,600

17 years is an amazing engineering feat

401
00:17:43,990 --> 00:17:42,640
and something that's going to be

402
00:17:46,789 --> 00:17:44,000
critical to us

403
00:17:48,549 --> 00:17:46,799
uh you know going further from earth uh

404
00:17:50,390 --> 00:17:48,559
earth someday

405
00:17:53,029 --> 00:17:50,400
a lot of us would like to be up there

406
00:17:56,150 --> 00:17:53,039
with you scott uh do you think space

407
00:18:00,470 --> 00:17:56,160
tourism uh will actually happen in our

408
00:18:05,350 --> 00:18:02,549
well it's been happening for for many

409
00:18:08,150 --> 00:18:05,360
years now we uh the russian space agency

410
00:18:09,750 --> 00:18:08,160
ruskosmos has been flying tourists here

411
00:18:12,390 --> 00:18:09,760
aboard the uh

412
00:18:14,310 --> 00:18:12,400
space station i'm not exactly sure what

413
00:18:15,510 --> 00:18:14,320

number we would be up to yet seven or

414

00:18:23,270 --> 00:18:15,520

eight

415

00:18:25,909 --> 00:18:23,280

we've been doing it i'd i'd love for it

416

00:18:28,470 --> 00:18:25,919

to be more frequent

417

00:18:29,590 --> 00:18:28,480

to have people be able to come to this

418

00:18:33,270 --> 00:18:29,600

you know

419

00:18:35,430 --> 00:18:33,280

a harsh environment but a pretty amazing

420

00:18:36,310 --> 00:18:35,440

place and

421

00:18:38,070 --> 00:18:36,320

you know

422

00:18:39,990 --> 00:18:38,080

it'd be great if some of these

423

00:18:41,510 --> 00:18:40,000

commercial companies get off the ground

424

00:18:44,070 --> 00:18:41,520

and hopefully they'll be doing that soon

425

00:18:45,750 --> 00:18:44,080

where we can have more paying customers

426

00:18:48,230 --> 00:18:45,760

fly

427

00:18:50,150 --> 00:18:48,240

in into suborbital space but also into

428

00:18:51,750 --> 00:18:50,160

low earth orbit someday

429

00:18:53,669 --> 00:18:51,760

scott and mikhail we send our best

430

00:18:55,270 --> 00:18:53,679

wishes for the duration of your mission

431

00:19:13,510 --> 00:18:55,280

and uh look forward to talking to you

432

00:19:17,430 --> 00:19:15,190

thank you very much for this interview

433

00:19:19,750 --> 00:19:17,440

thank you for your kind words