



1  
00:00:10,790 --> 00:00:04,710  
station houston are you ready for the

2  
00:00:15,669 --> 00:00:13,030  
yeah we're ready for the event

3  
00:00:19,029 --> 00:00:15,679  
kprc tv this is houston please call

4  
00:00:25,589 --> 00:00:21,590  
station this is kprc tv how do you hear

5  
00:00:30,870 --> 00:00:27,109  
we hear you loud and clear welcome

6  
00:00:32,549 --> 00:00:30,880  
aboard the international space station

7  
00:00:34,150 --> 00:00:32,559  
well it's so exciting to get to talk to

8  
00:00:39,750 --> 00:00:34,160  
you guys out there

9  
00:00:45,510 --> 00:00:43,270  
well i'm coming home on march 16th but

10  
00:00:47,670 --> 00:00:45,520  
my my two crewmates here

11  
00:00:49,430 --> 00:00:47,680  
uh paulo naspoli and katie coleman are

12  
00:00:52,310 --> 00:00:49,440  
coming home sometime in may i'm not sure

13  
00:00:55,750 --> 00:00:53,990

all right now what are you looking

14

00:01:02,310 --> 00:00:55,760

forward to most when you come home

15

00:01:05,990 --> 00:01:04,149

you know actually gravity is not

16

00:01:08,149 --> 00:01:06,000

something i look forward to because

17

00:01:10,390 --> 00:01:08,159

after being up here for so long you get

18

00:01:12,230 --> 00:01:10,400

used to this microgravity environment

19

00:01:14,230 --> 00:01:12,240

and i'm sure it's going to be uh

20

00:01:15,749 --> 00:01:14,240

difficult and you know in some ways it

21

00:01:18,390 --> 00:01:15,759

may be a little bit painful getting used

22

00:01:21,830 --> 00:01:18,400

to it first but you know things like you

23

00:01:24,149 --> 00:01:21,840

know friends and family and

24

00:01:27,350 --> 00:01:24,159

you know things we don't have up here

25

00:01:31,109 --> 00:01:27,360

fresh air and weather

26

00:01:34,630 --> 00:01:33,109

and i i assume also that you'll be

27

00:01:36,310 --> 00:01:34,640

looking forward to to getting home and

28

00:01:37,510 --> 00:01:36,320

being able to talk more with your

29

00:01:40,310 --> 00:01:37,520

brother

30

00:01:42,230 --> 00:01:40,320

mark kelly how often do you get to talk

31

00:01:44,230 --> 00:01:42,240

to him and get to communicate with him

32

00:01:46,149 --> 00:01:44,240

and kind of get an update on uh

33

00:01:48,069 --> 00:01:46,159

gabrielle gifford's condition and also

34

00:01:52,630 --> 00:01:48,079

him returning now getting ready for the

35

00:01:56,709 --> 00:01:55,429

i speak to mark uh practically every day

36

00:01:58,389 --> 00:01:56,719

um

37

00:02:01,109 --> 00:01:58,399

i would say

38

00:02:03,030 --> 00:02:01,119

since the uh the tragedy happened in

39

00:02:05,190 --> 00:02:03,040

tucson i've probably only missed there

40

00:02:07,350 --> 00:02:05,200

was only a couple of days where for you

41

00:02:09,430 --> 00:02:07,360

know various reasons i didn't act didn't

42

00:02:11,430 --> 00:02:09,440

talk to him on the phone sometimes i

43

00:02:12,229 --> 00:02:11,440

talked to him more than once uh once a

44

00:02:14,630 --> 00:02:12,239

day

45

00:02:15,430 --> 00:02:14,640

uh now at first i talked to him much

46

00:02:17,589 --> 00:02:15,440

more

47

00:02:22,150 --> 00:02:17,599

and uh also we

48

00:02:23,589 --> 00:02:22,160

we talk via email a little bit as well

49

00:02:29,430 --> 00:02:23,599

all right and what do you think about

50

00:02:32,150 --> 00:02:31,270

well i think it's a great decision i

51  
00:02:34,869 --> 00:02:32,160  
think

52  
00:02:37,750 --> 00:02:34,879  
you know he's clearly very capable

53  
00:02:39,589 --> 00:02:37,760  
of doing the job i think he's the best

54  
00:02:42,150 --> 00:02:39,599  
person for the job having trained for it

55  
00:02:44,790 --> 00:02:42,160  
for such a long time and uh you know his

56  
00:02:48,390 --> 00:02:44,800  
family supports the decision gabrielle

57  
00:02:50,229 --> 00:02:48,400  
of course supports it gabby's family and

58  
00:02:52,229 --> 00:02:50,239  
you know as well as a lot of our very

59  
00:02:53,750 --> 00:02:52,239  
close friends so i think it's and nasa

60  
00:02:55,270 --> 00:02:53,760  
management too which is very important

61  
00:02:58,309 --> 00:02:55,280  
so i think it's the uh it was the right

62  
00:03:11,030 --> 00:03:00,790  
tell us a little bit about daily life

63  
00:03:15,830 --> 00:03:13,509

well daily life here is uh

64

00:03:19,270 --> 00:03:15,840

is very busy we

65

00:03:22,229 --> 00:03:19,280

it's a very large facility requires uh

66

00:03:24,470 --> 00:03:22,239

six crew members now to to maintain it

67

00:03:26,949 --> 00:03:24,480

uh keep it operating and do all the uh

68

00:03:29,270 --> 00:03:26,959

the the science we have up here we have

69

00:03:32,309 --> 00:03:29,280

130 different science experiments

70

00:03:34,789 --> 00:03:32,319

running it at any given time and it it's

71

00:03:37,830 --> 00:03:34,799

a lot of work so our day consists of

72

00:03:39,110 --> 00:03:37,840

doing those things also exercising

73

00:03:41,830 --> 00:03:39,120

which is very important in the

74

00:03:44,390 --> 00:03:41,840

microgravity environment we we exercise

75

00:03:45,430 --> 00:03:44,400

generally about two hours every day

76

00:03:49,190 --> 00:03:45,440

so

77

00:03:53,910 --> 00:03:51,589

two hours a day um

78

00:03:56,390 --> 00:03:53,920

tell us what other effects i guess the

79

00:03:58,470 --> 00:03:56,400

the microgravity environment has

80

00:04:04,789 --> 00:03:58,480

since you are experiencing such a long

81

00:04:09,670 --> 00:04:06,789

well it has um

82

00:04:12,070 --> 00:04:09,680

effects on our bone mass on our muscle

83

00:04:15,270 --> 00:04:12,080

mass although hopefully with with

84

00:04:17,590 --> 00:04:15,280

exercise those will be uh mitigated

85

00:04:20,949 --> 00:04:17,600

uh certainly radiation is an issue and

86

00:04:22,870 --> 00:04:20,959

uh you know for long duration flyers and

87

00:04:24,870 --> 00:04:22,880

you know the sun and

88

00:04:27,430 --> 00:04:24,880

you can can have

89

00:04:28,870 --> 00:04:27,440  
events that would cause maybe increased

90

00:04:30,629 --> 00:04:28,880  
levels of radiation than we would

91

00:04:33,749 --> 00:04:30,639  
normally see up here on any given day

92

00:04:35,909 --> 00:04:33,759  
fortunately those don't come around uh

93

00:04:37,430 --> 00:04:35,919  
too often and there's also effects on

94

00:04:39,670 --> 00:04:37,440  
our immune systems

95

00:04:41,030 --> 00:04:39,680  
while we're up here but

96

00:04:43,830 --> 00:04:41,040  
you know we have a very good medical

97

00:04:45,990 --> 00:04:43,840  
program and a very good exercise program

98

00:04:50,629 --> 00:04:46,000  
that helps us to mitigate

99

00:04:55,670 --> 00:04:53,110  
what about spacewalks are there any more

100

00:04:57,430 --> 00:04:55,680  
spacewalks planned for

101  
00:05:02,950 --> 00:04:57,440  
your time up there then also the other

102  
00:05:06,710 --> 00:05:04,230  
we

103  
00:05:09,270 --> 00:05:06,720  
currently on expedition 26 do not have

104  
00:05:11,590 --> 00:05:09,280  
any planned space walks although if

105  
00:05:14,390 --> 00:05:11,600  
there was some kind of a contingency of

106  
00:05:16,950 --> 00:05:14,400  
something outside the space station

107  
00:05:19,590 --> 00:05:16,960  
one of the components that is critical

108  
00:05:20,950 --> 00:05:19,600  
were to fail apollo and i here would go

109  
00:05:23,189 --> 00:05:20,960  
out and

110  
00:05:27,350 --> 00:05:23,199  
do a spacewalk to fix it

111  
00:05:30,469 --> 00:05:27,360  
we have ulf5 is the the name of the

112  
00:05:34,550 --> 00:05:30,479  
shuttle flight coming up here in

113  
00:05:39,909 --> 00:05:37,189

and they will do two space walks while

114

00:05:41,189 --> 00:05:39,919

they're here so um

115

00:05:43,189 --> 00:05:41,199

and of course tomorrow we have a

116

00:05:44,230 --> 00:05:43,199

spacewalk on the russian segment two of

117

00:05:46,310 --> 00:05:44,240

our

118

00:05:48,629 --> 00:05:46,320

cosmonaut colleagues are going outside

119

00:05:50,390 --> 00:05:48,639

in their russian orlan spacesuits to

120

00:05:52,550 --> 00:05:50,400

install a couple of experiments and do

121

00:05:54,950 --> 00:05:52,560

some other activities outside the space

122

00:05:56,550 --> 00:05:54,960

station so we're although we're not uh

123

00:05:58,710 --> 00:05:56,560

the three of us aren't doing any space

124

00:06:00,550 --> 00:05:58,720

walks anytime soon we're staying very

125

00:06:03,110 --> 00:06:00,560

busy with the spacewalks here on board

126  
00:06:05,189 --> 00:06:03,120  
the space station

127  
00:06:07,749 --> 00:06:05,199  
yeah it sounds like it all right quickly

128  
00:06:09,189 --> 00:06:07,759  
before we let you guys go uh

129  
00:06:10,870 --> 00:06:09,199  
you have anything you want to say to

130  
00:06:15,029 --> 00:06:10,880  
people watching at home back here in

131  
00:06:15,039 --> 00:06:20,469  
good morning to everyone back in houston

132  
00:06:23,990 --> 00:06:21,510  
all right

133  
00:06:28,629 --> 00:06:24,000  
thank you guys so much and best of luck

134  
00:06:32,790 --> 00:06:30,070  
you're very welcome nice talking to you

135  
00:06:37,110 --> 00:06:34,629  
station this is houston acr that

136  
00:06:37,990 --> 00:06:37,120  
concludes the kprc tv portion of the

137  
00:06:39,990 --> 00:06:38,000  
event

138  
00:06:42,309 --> 00:06:40,000

please stand by for a voice check from

139

00:06:48,070 --> 00:06:42,319

the daily

140

00:06:52,070 --> 00:06:49,749

we hear you loud and clear welcome

141

00:06:54,309 --> 00:06:52,080

aboard the international space station

142

00:06:56,390 --> 00:06:54,319

thanks so much hi this is elizabeth

143

00:06:57,029 --> 00:06:56,400

thanks for taking the time to uh talk to

144

00:06:59,510 --> 00:06:57,039

us

145

00:07:01,589 --> 00:06:59,520

so i gotta ask how much free time do you

146

00:07:07,029 --> 00:07:01,599

guys have up there and what do you do

147

00:07:11,749 --> 00:07:09,430

well during the during the week we have

148

00:07:13,270 --> 00:07:11,759

very little free time

149

00:07:14,710 --> 00:07:13,280

a little bit in the morning which is

150

00:07:18,309 --> 00:07:14,720

mostly

151  
00:07:20,230 --> 00:07:18,319  
taken up by getting ready to work and

152  
00:07:22,950 --> 00:07:20,240  
a little bit at night night time which

153  
00:07:24,710 --> 00:07:22,960  
is you know in a lot of ways taken up by

154  
00:07:26,230 --> 00:07:24,720  
getting prepared for the next day and

155  
00:07:28,870 --> 00:07:26,240  
working the next day

156  
00:07:30,230 --> 00:07:28,880  
but uh on the weekends we have more free

157  
00:07:31,670 --> 00:07:30,240  
time

158  
00:07:33,589 --> 00:07:31,680  
of course like

159  
00:07:35,749 --> 00:07:33,599  
you know maybe in your house where a lot

160  
00:07:37,510 --> 00:07:35,759  
of the uh housekeeping activities are

161  
00:07:40,390 --> 00:07:37,520  
done on the weekends we kind of do the

162  
00:07:42,790 --> 00:07:40,400  
same thing up here so it's not all

163  
00:07:44,790 --> 00:07:42,800

floating around and looking out the

164

00:07:47,189 --> 00:07:44,800

window even on or off time but when we

165

00:07:48,150 --> 00:07:47,199

do have those those spare moments

166

00:07:50,390 --> 00:07:48,160

um

167

00:07:52,710 --> 00:07:50,400

we do spend some time uh looking at it

168

00:07:55,270 --> 00:07:52,720

out the window taking pictures at at the

169

00:07:57,029 --> 00:07:55,280

earth certainly talking to

170

00:07:59,830 --> 00:07:57,039

friends and family on earth via

171

00:08:02,869 --> 00:07:59,840

telephone and email and katie here plays

172

00:08:05,029 --> 00:08:02,879

a flute so she's been spending time

173

00:08:07,350 --> 00:08:05,039

playing the flute i generally just play

174

00:08:08,469 --> 00:08:07,360

the portable music player

175

00:08:10,469 --> 00:08:08,479

but

176

00:08:12,230 --> 00:08:10,479

you know we have things that you do on

177

00:08:15,749 --> 00:08:12,240

earth in your free time we also have up

178

00:08:17,430 --> 00:08:15,759

here i also read a lot while i'm here

179

00:08:19,270 --> 00:08:17,440

commander kelly i understand that you

180

00:08:26,790 --> 00:08:19,280

spoke to your sister-in-law on sunday

181

00:08:32,149 --> 00:08:29,110

um i don't i don't want to go into a lot

182

00:08:33,909 --> 00:08:32,159

of detail uh i i kind of you know just

183

00:08:35,990 --> 00:08:33,919

kind of taken the lead from my brother

184

00:08:38,630 --> 00:08:36,000

here on you know if you go into a lot of

185

00:08:40,630 --> 00:08:38,640

detail on that then people speculate on

186

00:08:43,350 --> 00:08:40,640

you know the potential outcome

187

00:08:45,350 --> 00:08:43,360

of her recovery which is can be you know

188

00:08:47,750 --> 00:08:45,360

quite variable but you know i asked her

189

00:08:49,750 --> 00:08:47,760

how she was doing and you know and i

190

00:08:51,670 --> 00:08:49,760

don't remember exactly what she said but

191

00:08:53,590 --> 00:08:51,680

it was something to the effect that i'm

192

00:08:55,910 --> 00:08:53,600

basically i'm good

193

00:08:58,150 --> 00:08:55,920

and uh you know that that was really

194

00:08:59,829 --> 00:08:58,160

about it it was a very brief uh

195

00:09:01,750 --> 00:08:59,839

conversation

196

00:09:04,070 --> 00:09:01,760

and how do you think your uh brother

197

00:09:10,070 --> 00:09:04,080

will cope up there in space while his

198

00:09:15,190 --> 00:09:13,110

um he'll cope uh very well i don't think

199

00:09:17,829 --> 00:09:15,200

there'll be any difference uh in his

200

00:09:18,949 --> 00:09:17,839

performance um

201  
00:09:22,389 --> 00:09:18,959  
based on

202  
00:09:23,910 --> 00:09:22,399  
on this tragedy happening he's a he's a

203  
00:09:25,030 --> 00:09:23,920  
true professional

204  
00:09:26,949 --> 00:09:25,040  
and

205  
00:09:28,630 --> 00:09:26,959  
i am absolutely certain he will do an

206  
00:09:30,630 --> 00:09:28,640  
outstanding job

207  
00:09:32,389 --> 00:09:30,640  
so with your mission uh that's scheduled

208  
00:09:34,550 --> 00:09:32,399  
to end next month what do you think the

209  
00:09:36,790 --> 00:09:34,560  
most significant accomplishments that

210  
00:09:43,509 --> 00:09:36,800  
you and your team have accomplished up

211  
00:09:47,910 --> 00:09:46,070  
um we have a

212  
00:09:50,949 --> 00:09:47,920  
suite of science experiments up here

213  
00:09:53,190 --> 00:09:50,959

over 130 different experiments operating

214

00:09:54,230 --> 00:09:53,200

at any given time

215

00:09:56,070 --> 00:09:54,240

and

216

00:09:58,630 --> 00:09:56,080

you know i could go through a list of

217

00:10:00,710 --> 00:09:58,640

them but what i think is the most

218

00:10:03,509 --> 00:10:00,720

significant thing is the fact that this

219

00:10:04,870 --> 00:10:03,519

whole facility this international

220

00:10:08,310 --> 00:10:04,880

partnership

221

00:10:10,470 --> 00:10:08,320

is one big experiment itself and that

222

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

you know if as a

223

00:10:15,990 --> 00:10:13,920

as a society as a uh you know a planet

224

00:10:18,069 --> 00:10:16,000

if we're gonna ever even venture away

225

00:10:20,069 --> 00:10:18,079

from earth we need to understand very

226

00:10:22,069 --> 00:10:20,079

well how to live and work in this very

227

00:10:23,190 --> 00:10:22,079

hostile environment not only

228

00:10:24,870 --> 00:10:23,200

with uh

229

00:10:25,990 --> 00:10:24,880

you know how the people

230

00:10:28,150 --> 00:10:26,000

um

231

00:10:29,990 --> 00:10:28,160

how we you know take care of ourselves

232

00:10:33,670 --> 00:10:30,000

with the uh you know the radiation

233

00:10:36,069 --> 00:10:33,680

environment with the physical um effects

234

00:10:39,430 --> 00:10:36,079

but also how the systems behave you know

235

00:10:41,990 --> 00:10:39,440

we need systems here that scrub uh

236

00:10:47,190 --> 00:10:42,000

carbon dioxide that provide uh provide

237

00:10:49,350 --> 00:10:47,200

us with oxygen and water electricity and

238

00:10:51,670 --> 00:10:49,360

having those systems operate for long

239

00:10:54,230 --> 00:10:51,680

periods of time

240

00:10:56,389 --> 00:10:54,240

are very very important to being able to

241

00:10:59,190 --> 00:10:56,399

one day allow us to leave

242

00:11:01,430 --> 00:10:59,200

planet earth and venture to

243

00:11:03,590 --> 00:11:01,440

further destinations

244

00:11:05,990 --> 00:11:03,600

the next question is for flight engineer

245

00:11:07,750 --> 00:11:06,000

coleman with the space shuttle program

246

00:11:09,350 --> 00:11:07,760

about to end in june what do you think

247

00:11:11,030 --> 00:11:09,360

this means for the united states

248

00:11:13,269 --> 00:11:11,040

participation

249

00:11:15,750 --> 00:11:13,279

in the future of the space station and

250

00:11:17,750 --> 00:11:15,760

what arrangements do exist with the

251  
00:11:19,430 --> 00:11:17,760  
russian government to make sure

252  
00:11:21,750 --> 00:11:19,440  
that you know our american astronauts

253  
00:11:26,630 --> 00:11:21,760  
will still get to uh get up there and

254  
00:11:30,230 --> 00:11:28,550  
well scott referred to the international

255  
00:11:32,310 --> 00:11:30,240  
partnership up here and i think that's

256  
00:11:34,310 --> 00:11:32,320  
one of the strongest assets that we have

257  
00:11:35,590 --> 00:11:34,320  
and i know for a long time looking into

258  
00:11:37,670 --> 00:11:35,600  
the future we've already made

259  
00:11:40,150 --> 00:11:37,680  
arrangements to make sure that we have

260  
00:11:42,389 --> 00:11:40,160  
both american japanese european

261  
00:11:43,990 --> 00:11:42,399  
astronauts up here as well as russian

262  
00:11:46,069 --> 00:11:44,000  
and everybody has seats for quite a

263  
00:11:48,230 --> 00:11:46,079

while in the future and there's and

264

00:11:49,990 --> 00:11:48,240

there's plans for experiments and the

265

00:11:52,389 --> 00:11:50,000

experiments are up here and waiting to

266

00:11:53,910 --> 00:11:52,399

be done so i think for the moment we're

267

00:11:55,750 --> 00:11:53,920

set and people are also looking at the

268

00:11:57,750 --> 00:11:55,760

future further out than that because

269

00:11:59,910 --> 00:11:57,760

this facility is just too

270

00:12:01,910 --> 00:11:59,920

uh marvelous and also valuable for just

271

00:12:03,509 --> 00:12:01,920

the reasons that scott mentioned uh to

272

00:12:05,430 --> 00:12:03,519

be letting it go idle and i don't see

273

00:12:06,949 --> 00:12:05,440

any any plans to do that i see us

274

00:12:09,190 --> 00:12:06,959

utilizing the space station in every way

275

00:12:11,430 --> 00:12:09,200

we can

276

00:12:19,910 --> 00:12:11,440

for all three of you uh what's next for

277

00:12:23,430 --> 00:12:21,110

well um

278

00:12:25,190 --> 00:12:23,440

i'm not sure about my my crew members

279

00:12:26,949 --> 00:12:25,200

but i can you know i can only speak for

280

00:12:28,949 --> 00:12:26,959

myself and

281

00:12:30,949 --> 00:12:28,959

you know i wouldn't mind flying again uh

282

00:12:34,790 --> 00:12:30,959

someday certainly it's going to take me

283

00:12:37,509 --> 00:12:34,800

a little bit a little bit of time to

284

00:12:38,949 --> 00:12:37,519

recondition myself and

285

00:12:41,509 --> 00:12:38,959

you know get used to living back on

286

00:12:43,269 --> 00:12:41,519

earth again but someday i i would like

287

00:12:45,350 --> 00:12:43,279

to fly

288

00:12:47,670 --> 00:12:45,360

another long-duration mission perhaps if

289

00:12:51,990 --> 00:12:47,680

the uh if the opportunity presented

290

00:12:57,350 --> 00:12:53,990

same question for a flight engineer you

291

00:13:01,829 --> 00:12:59,509

i was going to say uh paulo and i got up

292

00:13:04,310 --> 00:13:01,839

here in uh mid december mid to late

293

00:13:05,829 --> 00:13:04,320

december and i think i'm still in denial

294

00:13:08,069 --> 00:13:05,839

about having to come home in may you

295

00:13:10,470 --> 00:13:08,079

know right now i'm really excited about

296

00:13:12,310 --> 00:13:10,480

living and working up here and

297

00:13:14,230 --> 00:13:12,320

i'm really anxious to see my family and

298

00:13:15,350 --> 00:13:14,240

and see friends uh back there on the

299

00:13:17,670 --> 00:13:15,360

ground but i haven't thought much

300

00:13:20,550 --> 00:13:17,680

further than that

301

00:13:23,190 --> 00:13:20,560

and finally uh for uh commander kelly

302

00:13:25,430 --> 00:13:23,200

how do you see human man space flights

303

00:13:27,269 --> 00:13:25,440

manifesting itself during the next 10 to

304

00:13:28,790 --> 00:13:27,279

15 years

305

00:13:30,710 --> 00:13:28,800

while we wait for the next american

306

00:13:36,550 --> 00:13:30,720

launch vehicle and spacecraft for

307

00:13:42,949 --> 00:13:40,069

well our plan is to continue to to

308

00:13:45,910 --> 00:13:42,959

fly and operate the space station until

309

00:13:47,990 --> 00:13:45,920

at least 2020 perhaps

310

00:13:50,150 --> 00:13:48,000

and this is just me my speculation that

311

00:13:52,550 --> 00:13:50,160

we could go beyond that i think that the

312

00:13:54,870 --> 00:13:52,560

station just certainly has the uh

313

00:13:55,750 --> 00:13:54,880

the margin and the the capability to do

314

00:13:59,350 --> 00:13:55,760

that

315

00:14:01,350 --> 00:13:59,360

uh of course the us needs its own way to

316

00:14:03,829 --> 00:14:01,360

get people into low earth orbit whether

317

00:14:06,870 --> 00:14:03,839

that's a nasa built vehicle or

318

00:14:09,189 --> 00:14:06,880

or even a commercial vehicle like uh

319

00:14:10,629 --> 00:14:09,199

like you know we're currently uh in

320

00:14:11,910 --> 00:14:10,639

certain partnerships with certain

321

00:14:13,910 --> 00:14:11,920

companies to

322

00:14:15,189 --> 00:14:13,920

design and build we we definitely need

323

00:14:17,590 --> 00:14:15,199

that so

324

00:14:19,350 --> 00:14:17,600

um you know it's an incremental approach

325

00:14:21,110 --> 00:14:19,360

certainly our country has budget

326  
00:14:23,910 --> 00:14:21,120  
challenges

327  
00:14:25,030 --> 00:14:23,920  
but i think that you know with the right

328  
00:14:25,990 --> 00:14:25,040  
plan

329  
00:14:27,750 --> 00:14:26,000  
and

330  
00:14:30,470 --> 00:14:27,760  
you know the right money that's

331  
00:14:32,710 --> 00:14:30,480  
committed to to a plan we can still

332  
00:14:33,509 --> 00:14:32,720  
achieve great things in this country and

333  
00:14:37,829 --> 00:14:33,519  
i

334  
00:14:42,389 --> 00:14:37,839  
thanks so much to all of you have a safe

335  
00:14:47,110 --> 00:14:45,189  
thanks for your time

336  
00:14:49,670 --> 00:14:47,120  
station this is houston acr that

337  
00:14:51,590 --> 00:14:49,680  
concludes the daily portion of the event

338  
00:14:54,310 --> 00:14:51,600

please stand by for a voice check from

339

00:14:56,710 --> 00:14:54,320

newsweek the daily beast

340

00:15:01,590 --> 00:14:56,720

station this is peter boyer at the

341

00:15:05,269 --> 00:15:03,110

we have you loud and clear welcome

342

00:15:07,829 --> 00:15:05,279

aboard the international space station

343

00:15:10,470 --> 00:15:07,839

well thank you this is uh very exciting

344

00:15:17,990 --> 00:15:10,480

for me i i hope you all slept well scott

345

00:15:22,470 --> 00:15:20,230

yeah i sleep pretty well up here better

346

00:15:25,430 --> 00:15:22,480

than i do on earth

347

00:15:27,829 --> 00:15:25,440

i saw a very cool uh video this morning

348

00:15:31,189 --> 00:15:27,839

of your tour of the uh of your quarters

349

00:15:33,829 --> 00:15:31,199

there elizabeth um uh asked a couple of

350

00:15:36,069 --> 00:15:33,839

my questions uh for engineer coleman

351

00:15:38,389 --> 00:15:36,079

including uh all of y'all's feeling

352

00:15:40,389 --> 00:15:38,399

about the space shuttle coming to an end

353

00:15:42,389 --> 00:15:40,399

i have one quick question about

354

00:15:45,350 --> 00:15:42,399

your return home you're

355

00:15:48,230 --> 00:15:45,360

i assume you come home on that uh new

356

00:15:49,670 --> 00:15:48,240

soyuz right and i just wonder how you if

357

00:15:51,269 --> 00:15:49,680

this will be the sort of the first

358

00:15:52,710 --> 00:15:51,279

re-entry for that

359

00:16:00,550 --> 00:15:52,720

system how you

360

00:16:06,790 --> 00:16:03,189

interesting question it is the uh

361

00:16:10,230 --> 00:16:06,800

the first uh time that this new soyuz

362

00:16:12,870 --> 00:16:10,240

with a new flight control computer

363

00:16:14,629 --> 00:16:12,880

and a new new software for that flight

364

00:16:17,829 --> 00:16:14,639

control computer will

365

00:16:20,230 --> 00:16:17,839

enter the atmosphere now it has

366

00:16:23,269 --> 00:16:20,240

the computer has flown on other vehicles

367

00:16:25,749 --> 00:16:23,279

the progress unmanned

368

00:16:28,230 --> 00:16:25,759

resupply vehicles and

369

00:16:29,910 --> 00:16:28,240

of course it's flown on on air flight up

370

00:16:31,189 --> 00:16:29,920

here but it will be a demonstration of

371

00:16:34,550 --> 00:16:31,199

the first time

372

00:16:38,389 --> 00:16:34,560

that it's flown during a uh entry and

373

00:16:42,790 --> 00:16:41,030

how we prepare is basically the same way

374

00:16:45,430 --> 00:16:42,800

you would prepare for any mission you

375

00:16:47,590 --> 00:16:45,440

you train very thoroughly in the

376

00:16:48,710 --> 00:16:47,600

simulator and you uh

377

00:16:51,829 --> 00:16:48,720

you know get

378

00:16:53,590 --> 00:16:51,839

very uh adept at uh responding to a

379

00:16:54,470 --> 00:16:53,600

bunch of different malfunctions that can

380

00:16:56,949 --> 00:16:54,480

occur

381

00:16:58,949 --> 00:16:56,959

but uh you know we're we're test pilots

382

00:17:01,430 --> 00:16:58,959

test uh cosmonauts and this is what we

383

00:17:04,390 --> 00:17:01,440

do and uh you know if there are issues

384

00:17:05,829 --> 00:17:04,400

we'll respond to it um as we're we are

385

00:17:07,909 --> 00:17:05,839

trained

386

00:17:11,510 --> 00:17:07,919

thank you for that um

387

00:17:13,590 --> 00:17:11,520

scott i wanted to ask inevitably um

388

00:17:15,829 --> 00:17:13,600

forgive me the just a couple of quick

389

00:17:18,710 --> 00:17:15,839

things about about

390

00:17:22,230 --> 00:17:18,720

your sister-in-law and about your

391

00:17:23,590 --> 00:17:22,240

brother's coming mission first a dopey

392

00:17:25,990 --> 00:17:23,600

question but

393

00:17:28,390 --> 00:17:26,000

how do how do you get news up there i i

394

00:17:30,390 --> 00:17:28,400

know you have the internet occasionally

395

00:17:32,470 --> 00:17:30,400

and i you're not constant

396

00:17:34,470 --> 00:17:32,480

contact with with

397

00:17:36,310 --> 00:17:34,480

with houston but

398

00:17:39,990 --> 00:17:36,320

in this particular instance when it's

399

00:17:44,870 --> 00:17:40,000

big news and it's personal news how do

400

00:17:51,350 --> 00:17:48,789

well i heard about the tragedy um

401  
00:17:53,270 --> 00:17:51,360  
via the chief of the astronaut office i

402  
00:17:54,230 --> 00:17:53,280  
was told

403  
00:17:57,510 --> 00:17:54,240  
on a

404  
00:17:59,270 --> 00:17:57,520  
saturday not too long ago that the chief

405  
00:18:00,870 --> 00:17:59,280  
of the astronaut office peggy whitson

406  
00:18:02,549 --> 00:18:00,880  
needed to speak to me

407  
00:18:05,590 --> 00:18:02,559  
and they privatized one of the

408  
00:18:07,190 --> 00:18:05,600  
space-to-ground channels and

409  
00:18:09,350 --> 00:18:07,200  
you know when you hear that

410  
00:18:10,870 --> 00:18:09,360  
that your boss wants to talk to you and

411  
00:18:12,470 --> 00:18:10,880  
wants to talk to you right now without

412  
00:18:14,870 --> 00:18:12,480  
any heads up

413  
00:18:17,190 --> 00:18:14,880

without any notice you know then what

414

00:18:18,630 --> 00:18:17,200

she has to say is probably not good so i

415

00:18:21,590 --> 00:18:18,640

was expecting

416

00:18:22,950 --> 00:18:21,600

um some bad news certainly not of this

417

00:18:25,190 --> 00:18:22,960

magnitude

418

00:18:27,110 --> 00:18:25,200

so i was told over the space to ground

419

00:18:29,669 --> 00:18:27,120

channel and then houston continued to

420

00:18:32,789 --> 00:18:29,679

give me updates throughout the day and

421

00:18:34,950 --> 00:18:32,799

we also have the capability to watch

422

00:18:36,710 --> 00:18:34,960

television up here when we have the

423

00:18:38,230 --> 00:18:36,720

satellite available

424

00:18:40,950 --> 00:18:38,240

through a

425

00:18:41,750 --> 00:18:40,960

you know a meeting a computer meeting

426

00:18:42,870 --> 00:18:41,760

type

427

00:18:45,590 --> 00:18:42,880

software

428

00:18:49,110 --> 00:18:45,600

so it's not a perfect signal but it did

429

00:18:51,750 --> 00:18:49,120

allow me to follow the events through uh

430

00:18:53,270 --> 00:18:51,760

television news also like you mentioned

431

00:18:55,190 --> 00:18:53,280

we do have the internet

432

00:18:57,669 --> 00:18:55,200

and we also have a phone that when we

433

00:18:59,909 --> 00:18:57,679

have the satellite coverage we can talk

434

00:19:01,669 --> 00:18:59,919

to you know practically anyone on earth

435

00:19:02,549 --> 00:19:01,679

so i spent a lot of time on a telephone

436

00:19:04,470 --> 00:19:02,559

as well

437

00:19:06,950 --> 00:19:04,480

i hope that you mentioned television

438

00:19:09,430 --> 00:19:06,960

coverage as you know it was imperfect in

439

00:19:11,430 --> 00:19:09,440

the early hours i hope i just wondered

440

00:19:13,510 --> 00:19:11,440

did you did you as your brother did go

441

00:19:19,430 --> 00:19:13,520

through that brief period when it looked

442

00:19:22,549 --> 00:19:21,190

well when uh

443

00:19:23,590 --> 00:19:22,559

absolutely

444

00:19:27,190 --> 00:19:23,600

that is

445

00:19:28,150 --> 00:19:27,200

was certainly the case i told the uh

446

00:19:30,230 --> 00:19:28,160

i told

447

00:19:32,549 --> 00:19:30,240

my boss peggy whitson that

448

00:19:35,990 --> 00:19:32,559

i wanted to hear uh whatever the news

449

00:19:36,950 --> 00:19:36,000

was reporting even if it was unconfirmed

450

00:19:38,230 --> 00:19:36,960

so

451  
00:19:40,870 --> 00:19:38,240  
they did uh

452  
00:19:43,510 --> 00:19:40,880  
houston did report to me to be a

453  
00:19:46,230 --> 00:19:43,520  
privatized uh channel

454  
00:19:48,390 --> 00:19:46,240  
that uh there were unconfirmed reports

455  
00:19:49,909 --> 00:19:48,400  
that that gabby had passed away so yes i

456  
00:19:52,470 --> 00:19:49,919  
i did hear that

457  
00:19:55,270 --> 00:19:52,480  
well thank god uh her course has taken a

458  
00:19:59,750 --> 00:19:55,280  
happier turn since then about

459  
00:20:02,149 --> 00:19:59,760  
mark's mission on uh 134 i think it is

460  
00:20:03,430 --> 00:20:02,159  
you you have spoken to him

461  
00:20:05,510 --> 00:20:03,440  
about that

462  
00:20:08,230 --> 00:20:05,520  
i i wonder what your sense as an

463  
00:20:10,310 --> 00:20:08,240

astronaut what your sense is of the sort

464

00:20:12,950 --> 00:20:10,320

of larger symbolic

465

00:20:13,990 --> 00:20:12,960

meaning of his taking command of that

466

00:20:21,029 --> 00:20:14,000

mission

467

00:20:25,430 --> 00:20:22,630

i haven't really given it a whole lot of

468

00:20:27,350 --> 00:20:25,440

thought but you know i think it it shows

469

00:20:29,590 --> 00:20:27,360

a uh

470

00:20:30,549 --> 00:20:29,600

you know a certain level of resilience

471

00:20:33,669 --> 00:20:30,559

and

472

00:20:34,789 --> 00:20:33,679

you know commitment uh to duty

473

00:20:37,750 --> 00:20:34,799

that

474

00:20:39,430 --> 00:20:37,760

uh not only he has but you know many

475

00:20:41,750 --> 00:20:39,440

people in our country

476

00:20:43,430 --> 00:20:41,760

do certainly uh you know there are many

477

00:20:45,430 --> 00:20:43,440

people in the u.s military that have to

478

00:20:47,190 --> 00:20:45,440

deal with similar issues and still go on

479

00:20:49,750 --> 00:20:47,200

deployments for instance

480

00:20:52,070 --> 00:20:49,760

for for even longer periods of time in

481

00:20:54,549 --> 00:20:52,080

times of uh you know family and personal

482

00:20:56,310 --> 00:20:54,559

tragedy so you know i think it shows

483

00:20:57,909 --> 00:20:56,320

something about you know what we're made

484

00:21:00,070 --> 00:20:57,919

of and i think

485

00:21:02,390 --> 00:21:00,080

you know we're gonna see that much much

486

00:21:04,950 --> 00:21:02,400

more with gabby as we follow her through

487

00:21:07,990 --> 00:21:04,960

her recovery she is a very strong

488

00:21:09,909 --> 00:21:08,000

strong-willed and dedicated person and i

489

00:21:11,990 --> 00:21:09,919

look forward to uh

490

00:21:13,830 --> 00:21:12,000

you know seeing her and you know the

491

00:21:16,149 --> 00:21:13,840

example that she sets

492

00:21:18,710 --> 00:21:16,159

for all of us and how she deals with the

493

00:21:20,070 --> 00:21:18,720

you know very very personal tragedy like

494

00:21:22,950 --> 00:21:20,080

this

495

00:21:24,789 --> 00:21:22,960

scott i'll ask the last quick question

496

00:21:27,590 --> 00:21:24,799

you're returning a few weeks before

497

00:21:29,990 --> 00:21:27,600

mark's scheduled mission this has been a

498

00:21:32,310 --> 00:21:30,000

long duration event of course

499

00:21:35,029 --> 00:21:32,320

just out of sheer ignorance i don't know

500

00:21:36,149 --> 00:21:35,039

how long until how long after such a

501  
00:21:38,549 --> 00:21:36,159  
mission

502  
00:21:40,149 --> 00:21:38,559  
before you can resume normal activity

503  
00:21:42,070 --> 00:21:40,159  
and do you have any sort of special

504  
00:21:47,430 --> 00:21:42,080  
reunion plans with your family i know

505  
00:21:53,669 --> 00:21:50,950  
you know it varies from person to person

506  
00:21:55,990 --> 00:21:53,679  
in in the

507  
00:21:57,350 --> 00:21:56,000  
rehabilitation or reconditioning uh

508  
00:21:58,470 --> 00:21:57,360  
process

509  
00:22:01,350 --> 00:21:58,480  
um

510  
00:22:02,789 --> 00:22:01,360  
i've been very uh you know dedicated to

511  
00:22:04,870 --> 00:22:02,799  
the exercise

512  
00:22:07,750 --> 00:22:04,880  
program we have up here so i i

513  
00:22:10,470 --> 00:22:07,760

anticipate doing just fine

514

00:22:12,549 --> 00:22:10,480

i don't see any issue with me going to

515

00:22:14,470 --> 00:22:12,559

my brother's launch

516

00:22:17,190 --> 00:22:14,480

i think even if it was a week later i'd

517

00:22:19,590 --> 00:22:17,200

be able to attend and i would attend

518

00:22:22,310 --> 00:22:19,600

and as far as reunion with

519

00:22:24,549 --> 00:22:22,320

family and friends

520

00:22:27,270 --> 00:22:24,559

i am sure that my brother will be as

521

00:22:28,789 --> 00:22:27,280

well as some other you know people that

522

00:22:30,470 --> 00:22:28,799

are very close to me

523

00:22:32,710 --> 00:22:30,480

at the bottom of the airplane at

524

00:22:34,310 --> 00:22:32,720

ellington field waiting when i arrived

525

00:22:36,630 --> 00:22:34,320

back in houston

526

00:22:45,270 --> 00:22:36,640

that's the case i thank all of you all

527

00:22:45,280 --> 00:22:55,190

being with you today

528

00:22:59,350 --> 00:22:57,110

station this is houston acr that

529

00:23:01,750 --> 00:22:59,360

concludes the newweek the daily beast

530

00:23:07,190 --> 00:23:01,760

portion of the event please stand by for

531

00:23:09,990 --> 00:23:08,870

hey i'm here it's bob woodruff how are

532

00:23:17,909 --> 00:23:10,000

you

533

00:23:21,029 --> 00:23:17,919

aboard the international space station

534

00:23:24,789 --> 00:23:21,039

thank you thank you so much mr kelly and

535

00:23:26,070 --> 00:23:24,799

dr coleman mr despoli

536

00:23:31,430 --> 00:23:26,080

i don't know when i start asking

537

00:23:36,470 --> 00:23:35,110

go ahead right now would be a great time

538

00:23:38,230 --> 00:23:36,480

well first of all it's uh it's a

539

00:23:40,230 --> 00:23:38,240

pleasure to talk to you up there i i

540

00:23:41,510 --> 00:23:40,240

would love to uh someday fly up there

541

00:23:42,950 --> 00:23:41,520

with you but i don't think that's ever

542

00:23:44,549 --> 00:23:42,960

going to happen so i'll just ask you

543

00:23:46,149 --> 00:23:44,559

some questions about what you're what

544

00:23:49,029 --> 00:23:46,159

you're going through up there

545

00:23:51,750 --> 00:23:49,039

um you know first of all uh

546

00:23:53,750 --> 00:23:51,760

you know in terms of the

547

00:23:55,750 --> 00:23:53,760

your healthiness while you're up in the

548

00:23:56,710 --> 00:23:55,760

uh your health when you're up there in

549

00:23:59,190 --> 00:23:56,720

space

550

00:24:01,350 --> 00:23:59,200

what does it feel like in terms of

551  
00:24:03,350 --> 00:24:01,360  
what your what your muscles feel like

552  
00:24:05,510 --> 00:24:03,360  
what your bones feel like what your

553  
00:24:07,590 --> 00:24:05,520  
brain feels like that's different than

554  
00:24:12,789 --> 00:24:07,600  
when y'all when that when you're on on

555  
00:24:16,390 --> 00:24:15,190  
as we have a very good exercise program

556  
00:24:19,669 --> 00:24:16,400  
up here so

557  
00:24:21,669 --> 00:24:19,679  
i actually feel better than

558  
00:24:24,070 --> 00:24:21,679  
you know before i flew because i

559  
00:24:25,669 --> 00:24:24,080  
exercised you know practically two hours

560  
00:24:28,630 --> 00:24:25,679  
a day up here which i

561  
00:24:32,470 --> 00:24:28,640  
you know i exercise on earth but not

562  
00:24:33,830 --> 00:24:32,480  
nearly the intensity and the frequency

563  
00:24:36,870 --> 00:24:33,840

as we do up here so i think i'm

564

00:24:39,190 --> 00:24:36,880

definitely going to return in

565

00:24:40,950 --> 00:24:39,200

in better physical shape than when i

566

00:24:43,590 --> 00:24:40,960

left now certainly there's a

567

00:24:45,669 --> 00:24:43,600

re-adaptation of gravity that will will

568

00:24:48,789 --> 00:24:45,679

probably take its toll on me for a few

569

00:24:50,950 --> 00:24:48,799

days if not maybe a week or so

570

00:24:52,549 --> 00:24:50,960

but overall physically i feel

571

00:24:54,149 --> 00:24:52,559

absolutely great

572

00:24:55,909 --> 00:24:54,159

mentally

573

00:24:58,310 --> 00:24:55,919

when you first get up here there

574

00:25:00,390 --> 00:24:58,320

definitely is a sense of you know being

575

00:25:02,630 --> 00:25:00,400

in a little bit of a fog

576

00:25:03,590 --> 00:25:02,640

for a lack of a better way to describe

577

00:25:05,909 --> 00:25:03,600

it and

578

00:25:07,909 --> 00:25:05,919

i would say after about a month that's

579

00:25:10,710 --> 00:25:07,919

kind of cleared up completely i think it

580

00:25:12,310 --> 00:25:10,720

varies from person to person but

581

00:25:14,630 --> 00:25:12,320

certainly

582

00:25:18,149 --> 00:25:14,640

does have some effect on your your

583

00:25:21,590 --> 00:25:18,159

ability to focus and perform uh certain

584

00:25:24,390 --> 00:25:21,600

certain tasks but overall it's not a bad

585

00:25:26,390 --> 00:25:24,400

environment to live and work in

586

00:25:29,269 --> 00:25:26,400

dr coleman i know you've done some bone

587

00:25:31,430 --> 00:25:29,279

density research what does that show you

588

00:25:32,950 --> 00:25:31,440

about exactly what causes this change in

589

00:25:37,350 --> 00:25:32,960

bone density and what's what's been the

590

00:25:41,029 --> 00:25:39,190

well i'm part of that research and then

591

00:25:43,669 --> 00:25:41,039

i'm a subject for it i haven't performed

592

00:25:46,070 --> 00:25:43,679

it myself when we're up here we lose

593

00:25:48,950 --> 00:25:46,080

bone mass about 10 times faster than

594

00:25:51,430 --> 00:25:48,960

your average osteoporotic

595

00:25:53,669 --> 00:25:51,440

person who's maybe around 70 years old

596

00:25:55,990 --> 00:25:53,679

and we also have pretty clean medical

597

00:25:58,710 --> 00:25:56,000

history so it makes us ideal subjects

598

00:26:01,350 --> 00:25:58,720

for research in osteoporosis looking at

599

00:26:03,350 --> 00:26:01,360

how much bone is lost what kind of bone

600

00:26:04,149 --> 00:26:03,360

is lost and then actually when we come

601  
00:26:06,870 --> 00:26:04,159  
home

602  
00:26:08,710 --> 00:26:06,880  
um how that bone is rebuilt and in what

603  
00:26:11,269 --> 00:26:08,720  
form it is is it just as good as other

604  
00:26:13,110 --> 00:26:11,279  
bone in fact we're taking some of us are

605  
00:26:14,950 --> 00:26:13,120  
taking uh different drugs for

606  
00:26:17,350 --> 00:26:14,960  
osteoporosis to see how they work on us

607  
00:26:19,430 --> 00:26:17,360  
up here and in a way we just get sort of

608  
00:26:21,590 --> 00:26:19,440  
faster data since it happens so much

609  
00:26:22,830 --> 00:26:21,600  
faster up here it's pretty interesting i

610  
00:26:25,590 --> 00:26:22,840  
think a real important thing that we're

611  
00:26:27,350 --> 00:26:25,600  
doing given the fact that the shuttle is

612  
00:26:29,669 --> 00:26:27,360  
only up for a very short period of time

613  
00:26:31,750 --> 00:26:29,679

compared to going up to the soyuz is it

614

00:26:33,830 --> 00:26:31,760

is do we know exactly what would be the

615

00:26:36,230 --> 00:26:33,840

limit on how long we could stay up in

616

00:26:42,710 --> 00:26:36,240

space in terms of the impact on the

617

00:26:46,789 --> 00:26:44,789

our exercise program like i was saying

618

00:26:48,149 --> 00:26:46,799

is very very good so we've actually had

619

00:26:50,310 --> 00:26:48,159

people come back

620

00:26:51,590 --> 00:26:50,320

after a six month flight

621

00:26:53,029 --> 00:26:51,600

with

622

00:26:57,110 --> 00:26:53,039

very little

623

00:26:58,470 --> 00:26:57,120

uh loss in in bone and and and muscle

624

00:27:00,950 --> 00:26:58,480

although we don't really measure the

625

00:27:03,510 --> 00:27:00,960

muscle mass like we do the bone

626

00:27:06,549 --> 00:27:03,520

uh density with you know a very uh

627

00:27:09,269 --> 00:27:06,559

objective uh bone scan

628

00:27:11,909 --> 00:27:09,279

so i don't know that there would be a

629

00:27:14,870 --> 00:27:11,919

limit on how long we could stay in space

630

00:27:17,110 --> 00:27:14,880

uh based on our loss of bone and muscle

631

00:27:20,470 --> 00:27:17,120

because we do mitigate those certainly

632

00:27:22,870 --> 00:27:20,480

radiation is a factor and

633

00:27:24,310 --> 00:27:22,880

i think the lifetime limit

634

00:27:26,630 --> 00:27:24,320

for a

635

00:27:29,510 --> 00:27:26,640

male of my age is somewhere on the order

636

00:27:30,389 --> 00:27:29,520

of a thousand days in space which is a

637

00:27:31,510 --> 00:27:30,399

lot

638

00:27:33,909 --> 00:27:31,520

but

639

00:27:37,350 --> 00:27:33,919

you know if we had to comply with those

640

00:27:39,590 --> 00:27:37,360

osha type radiation standards i think

641

00:27:40,630 --> 00:27:39,600

that would probably be uh one limiting

642

00:27:42,870 --> 00:27:40,640

factor

643

00:27:45,990 --> 00:27:42,880

after a thousand days is it uh there's a

644

00:27:47,669 --> 00:27:46,000

danger of of what not ban will recover

645

00:27:49,190 --> 00:27:47,679

fully when you get back to the earth or

646

00:27:52,630 --> 00:27:49,200

you just would not survive what does

647

00:27:59,029 --> 00:27:55,430

i i think it's just a matter of the uh

648

00:28:00,070 --> 00:27:59,039

increased uh risk of certain types of

649

00:28:02,630 --> 00:28:00,080

cancer

650

00:28:04,630 --> 00:28:02,640

is uh you know after

651  
00:28:07,029 --> 00:28:04,640  
spending over a thousand days in space

652  
00:28:08,950 --> 00:28:07,039  
is uh above a certain uh

653  
00:28:10,870 --> 00:28:08,960  
government i think osha

654  
00:28:13,029 --> 00:28:10,880  
limits so we would have a you know

655  
00:28:15,029 --> 00:28:13,039  
increased risk of cancer and

656  
00:28:17,029 --> 00:28:15,039  
i guess any any bit of radiation

657  
00:28:19,350 --> 00:28:17,039  
probably increases your risk but that

658  
00:28:21,750 --> 00:28:19,360  
you know you at that number of days you

659  
00:28:23,190 --> 00:28:21,760  
trip a certain threshold

660  
00:28:24,950 --> 00:28:23,200  
i know i haven't done this kind of

661  
00:28:26,630 --> 00:28:24,960  
research i'm sure you you know it but

662  
00:28:28,789 --> 00:28:26,640  
has there been cases of cancer they

663  
00:28:33,110 --> 00:28:28,799

believe is caused by time spent up there

664

00:28:37,430 --> 00:28:35,830

i don't know it's uh you know possible

665

00:28:39,190 --> 00:28:37,440

but i'm not an expert on this and i

666

00:28:40,870 --> 00:28:39,200

would have to you know

667

00:28:42,470 --> 00:28:40,880

defer or

668

00:28:44,710 --> 00:28:42,480

you know suggest that

669

00:28:46,870 --> 00:28:44,720

someone else at nasa could possibly get

670

00:28:49,269 --> 00:28:46,880

back you with those answers i'm not i'm

671

00:28:50,870 --> 00:28:49,279

certainly not an expert in this area

672

00:28:52,470 --> 00:28:50,880

so when you land over there in

673

00:28:53,990 --> 00:28:52,480

kazakhstan what's that what does that

674

00:28:56,950 --> 00:28:54,000

feel like when you when you land and

675

00:28:58,549 --> 00:28:56,960

then gravity comes back and uh

676

00:29:02,789 --> 00:28:58,559

what what are we gonna see when you come

677

00:29:07,909 --> 00:29:05,830

i haven't landed in a soyuz but

678

00:29:09,750 --> 00:29:07,919

i've been told it's uh

679

00:29:11,909 --> 00:29:09,760

pretty uh exciting i think it's more

680

00:29:14,710 --> 00:29:11,919

like crashing with a parachute above

681

00:29:16,470 --> 00:29:14,720

your head you hit the ground very hard

682

00:29:17,350 --> 00:29:16,480

and uh

683

00:29:18,950 --> 00:29:17,360

the other

684

00:29:21,830 --> 00:29:18,960

thing that people have told me is when

685

00:29:24,310 --> 00:29:21,840

the hatch is open you really get a

686

00:29:27,110 --> 00:29:24,320

sense of the earth the uh you know the

687

00:29:29,590 --> 00:29:27,120

feel of the air on your face the smell

688

00:29:32,149 --> 00:29:29,600

of the uh you know the earth below you

689

00:29:33,190 --> 00:29:32,159

that was recently been been kicked up by

690

00:29:37,029 --> 00:29:33,200

the

691

00:29:39,510 --> 00:29:37,039

know

692

00:29:42,070 --> 00:29:39,520

steps of uh kazakhstan

693

00:29:45,350 --> 00:29:42,080

so it's definitely uh going to be an

694

00:29:47,269 --> 00:29:45,360

experience that i i look forward to and

695

00:29:49,669 --> 00:29:47,279

i look forward to getting back back i

696

00:29:53,750 --> 00:29:51,990

uh in terms of as you're coming down

697

00:29:55,510 --> 00:29:53,760

what you see and all that in terms of

698

00:29:57,430 --> 00:29:55,520

what's what's what's been like uh you

699

00:29:58,549 --> 00:29:57,440

know scientifically on the impact on

700

00:30:01,590 --> 00:29:58,559

your vision

701  
00:30:03,029 --> 00:30:01,600  
because of this change in gravity uh

702  
00:30:04,389 --> 00:30:03,039  
your your your

703  
00:30:06,389 --> 00:30:04,399  
your optical

704  
00:30:09,029 --> 00:30:06,399  
parts of your of your sight is it has

705  
00:30:15,510 --> 00:30:09,039  
there been a change in that is there

706  
00:30:21,190 --> 00:30:18,149  
i can only speak for myself because of

707  
00:30:22,389 --> 00:30:21,200  
you know privacy issues but you know for

708  
00:30:23,669 --> 00:30:22,399  
me

709  
00:30:25,269 --> 00:30:23,679  
my vision

710  
00:30:27,669 --> 00:30:25,279  
is definitely affected by the

711  
00:30:31,430 --> 00:30:27,679  
microgravity environment it was on a

712  
00:30:34,630 --> 00:30:31,440  
short duration flight it is here it's uh

713  
00:30:37,990 --> 00:30:34,640

you know i can't see as well um

714

00:30:57,110 --> 00:30:38,000

and i suspect and hope that when i get

715

00:31:09,190 --> 00:30:58,710

station this is houston acr that