



1
00:00:04,789 --> 00:00:01,829
station this is houston are you ready

2
00:00:09,750 --> 00:00:07,430
we are ready for the event

3
00:00:12,150 --> 00:00:09,760
cbs news pass mission control center

4
00:00:13,270 --> 00:00:12,160
houston please call station for a voice

5
00:00:15,270 --> 00:00:13,280
check

6
00:00:19,109 --> 00:00:15,280
iss this is cbs at the kennedy space

7
00:00:22,070 --> 00:00:21,029
we hear you loud and clear welcome

8
00:00:23,830 --> 00:00:22,080
aboard

9
00:00:25,589 --> 00:00:23,840
well thank you very much it's glad to uh

10
00:00:27,429 --> 00:00:25,599
glad to be here and i guess first of all

11
00:00:29,750 --> 00:00:27,439
a belated happy thanksgiving to you guys

12
00:00:31,109 --> 00:00:29,760
i hope you got some time off and uh

13
00:00:34,229 --> 00:00:31,119

wondering if you had a good meal up

14

00:00:38,310 --> 00:00:36,229

well actually uh thanksgiving was a work

15

00:00:40,869 --> 00:00:38,320

day for us but uh we did have a good

16

00:00:43,030 --> 00:00:40,879

meal a little bit of turkey and stuffing

17

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

and green beans and all the all the

18

00:00:46,470 --> 00:00:44,480

fixings

19

00:00:48,069 --> 00:00:46,480

that sounds great and mike is a former

20

00:00:49,510 --> 00:00:48,079

college football i'm just going to keep

21

00:00:51,189 --> 00:00:49,520

this on the thanksgiving theme for a

22

00:00:52,549 --> 00:00:51,199

minute i know you're a former college

23

00:00:53,830 --> 00:00:52,559

football player and i assume you've been

24

00:00:55,110 --> 00:00:53,840

following your favorite teams i'm just

25

00:00:57,110 --> 00:00:55,120

wondering if you guys had a chance to

26
00:01:02,869 --> 00:00:57,120
see any of the alabama auburn game up

27
00:01:07,429 --> 00:01:04,869
no we didn't actually get to see the

28
00:01:09,350 --> 00:01:07,439
game live or or in replay but i

29
00:01:11,429 --> 00:01:09,360
certainly have been following news i saw

30
00:01:13,270 --> 00:01:11,439
the results of it it sounds like it was

31
00:01:14,550 --> 00:01:13,280
an incredible ending

32
00:01:16,070 --> 00:01:14,560
yeah it really was you want to make any

33
00:01:17,749 --> 00:01:16,080
predictions about the ball picture i'm

34
00:01:19,510 --> 00:01:17,759
just wondering if you're okay with ohio

35
00:01:21,109 --> 00:01:19,520
state at number two or would you rather

36
00:01:24,310 --> 00:01:21,119
see something else come up for the for

37
00:01:28,870 --> 00:01:26,630
well i'm a big 10 guy so i'm i'm very

38
00:01:30,390 --> 00:01:28,880

happy to see ohio state at number two i

39

00:01:32,710 --> 00:01:30,400

think they think they got a great shot

40

00:01:35,590 --> 00:01:32,720

at it and i look forward to for them

41

00:01:37,830 --> 00:01:35,600

playing in the championship game

42

00:01:40,069 --> 00:01:37,840

hey rick uh russian progress ship just

43

00:01:41,670 --> 00:01:40,079

showed up i guess and uh i understand

44

00:01:42,789 --> 00:01:41,680

you all had some gifts on board i know

45

00:01:44,310 --> 00:01:42,799

you don't know what they are but what

46

00:01:47,510 --> 00:01:44,320

are you planning to do for the holidays

47

00:01:50,230 --> 00:01:48,789

well we didn't we didn't know anything

48

00:01:51,670 --> 00:01:50,240

about gifts thanks for letting us know

49

00:01:54,870 --> 00:01:51,680

we'll have to search that a little bit

50

00:01:57,510 --> 00:01:54,880

closer now

51
00:01:59,990 --> 00:01:57,520
for the holidays of course you know

52
00:02:01,429 --> 00:02:00,000
being away from our family uh the most

53
00:02:03,350 --> 00:02:01,439
important thing is we'll get to do some

54
00:02:05,030 --> 00:02:03,360
video conferencing with our families and

55
00:02:06,469 --> 00:02:05,040
friends and make some phone calls and of

56
00:02:08,790 --> 00:02:06,479
course then we'll all get together up

57
00:02:10,469 --> 00:02:08,800
here have a big meal and just enjoy each

58
00:02:11,990 --> 00:02:10,479
other's company

59
00:02:19,589 --> 00:02:12,000
how about new year's eve you guys got

60
00:02:22,710 --> 00:02:20,949
well new year's

61
00:02:24,550 --> 00:02:22,720
is actually not the eve but the new

62
00:02:26,229 --> 00:02:24,560
year's day is a pretty big celebration

63
00:02:28,550 --> 00:02:26,239

day in japan as well as in many other

64

00:02:31,509 --> 00:02:28,560

countries i am planning to have rice

65

00:02:32,790 --> 00:02:31,519

cake that's a traditional japanese

66

00:02:34,710 --> 00:02:32,800

new year's day

67

00:02:36,390 --> 00:02:34,720

cuisine so i'm looking forward to having

68

00:02:38,550 --> 00:02:36,400

that then i'm going to be sharing that

69

00:02:41,589 --> 00:02:38,560

with mike and rick whether or not they

70

00:02:45,110 --> 00:02:43,270

well koichi let me ask you another

71

00:02:47,990 --> 00:02:45,120

question uh along a different line i

72

00:02:49,270 --> 00:02:48,000

know you were following comet ison and i

73

00:02:50,710 --> 00:02:49,280

i guess it went out in the blaze of

74

00:02:52,229 --> 00:02:50,720

glory as it went around the sun we were

75

00:02:53,509 --> 00:02:52,239

all following that down here i know you

76

00:02:56,309 --> 00:02:53,519

were planning on

77

00:02:58,070 --> 00:02:56,319

shooting that with a high-res 4k camera

78

00:02:59,509 --> 00:02:58,080

i know you saw it on the way in can you

79

00:03:01,110 --> 00:02:59,519

describe what it looked like and and

80

00:03:02,710 --> 00:03:01,120

have you had a chance to get a glimpse

81

00:03:06,149 --> 00:03:02,720

of it on the way out or whatever's left

82

00:03:10,630 --> 00:03:08,229

actually the last time that i saw

83

00:03:13,750 --> 00:03:10,640

using the camera was already about five

84

00:03:16,630 --> 00:03:13,760

days ago and it was really small and i

85

00:03:18,630 --> 00:03:16,640

just saw it just before sunrise and just

86

00:03:20,630 --> 00:03:18,640

following the mercury

87

00:03:23,190 --> 00:03:20,640

and it was a very small

88

00:03:25,589 --> 00:03:23,200

tale but it looked really vivid

89

00:03:29,190 --> 00:03:25,599

and i was very lucky to be able to see

90

00:03:31,110 --> 00:03:29,200

such a dynamic event of the universe and

91

00:03:33,509 --> 00:03:31,120

comet you know

92

00:03:36,309 --> 00:03:33,519

disappearing uh you know when it when it

93

00:03:38,470 --> 00:03:36,319

goes around the sun so i just felt that

94

00:03:40,630 --> 00:03:38,480

how small we are and then it's we were

95

00:03:42,630 --> 00:03:40,640

so lucky to be able to see that event

96

00:03:43,910 --> 00:03:42,640

while we were up up up here onboard the

97

00:03:45,830 --> 00:03:43,920

station

98

00:03:47,110 --> 00:03:45,840

how is uh how's that camera working out

99

00:03:49,430 --> 00:03:47,120

and what are you going to be doing with

100

00:03:51,030 --> 00:03:49,440

it in the coming weeks

101
00:03:53,190 --> 00:03:51,040
in the coming weeks

102
00:03:56,309 --> 00:03:53,200
actually uh this past week i've been

103
00:03:58,309 --> 00:03:56,319
busy filming a lot of uh night city

104
00:04:00,390 --> 00:03:58,319
lights and also aurora borealis

105
00:04:02,949 --> 00:04:00,400
especially over canada we already had

106
00:04:05,190 --> 00:04:02,959
like five or six paths uh flying over

107
00:04:08,390 --> 00:04:05,200
canada area and the camera captured

108
00:04:10,229 --> 00:04:08,400
really beautiful uh aurora pictures so

109
00:04:11,830 --> 00:04:10,239
uh hopefully we'll be able to see you'll

110
00:04:13,190 --> 00:04:11,840
be able to see that in the very near

111
00:04:14,630 --> 00:04:13,200
future

112
00:04:16,390 --> 00:04:14,640
let me ask you one more real quick when

113
00:04:17,830 --> 00:04:16,400

you've obviously spent a long time uh

114

00:04:19,590 --> 00:04:17,840

you've been on the station before what

115

00:04:21,110 --> 00:04:19,600

was it like

116

00:04:22,469 --> 00:04:21,120

getting back up to speed this time

117

00:04:24,230 --> 00:04:22,479

around you're going to command the next

118

00:04:26,070 --> 00:04:24,240

increment but uh did was it like coming

119

00:04:29,749 --> 00:04:26,080

home again or was it things you had to

120

00:04:33,749 --> 00:04:31,350

well definitely

121

00:04:35,670 --> 00:04:33,759

i flew four years ago but

122

00:04:37,909 --> 00:04:35,680

as soon as i arrived here on board the

123

00:04:39,350 --> 00:04:37,919

space station i felt as if i came back

124

00:04:40,870 --> 00:04:39,360

to my old

125

00:04:43,670 --> 00:04:40,880

like office

126

00:04:46,629 --> 00:04:43,680

and mike is already really up to speed

127

00:04:48,870 --> 00:04:46,639

so he gave us a really good handover so

128

00:04:52,710 --> 00:04:48,880

it was very smooth much smoother than

129

00:04:54,230 --> 00:04:52,720

four years ago when i first arrived here

130

00:04:55,590 --> 00:04:54,240

rick how about you what's it like for a

131

00:05:01,029 --> 00:04:55,600

shuttle guy to get more than a couple of

132

00:05:05,510 --> 00:05:03,110

yeah it's great uh you know coming up on

133

00:05:07,270 --> 00:05:05,520

four weeks and i was joking with koichi

134

00:05:08,950 --> 00:05:07,280

the other day about two weeks ago i said

135

00:05:12,070 --> 00:05:08,960

don't we have a deorbit burn tomorrow or

136

00:05:14,310 --> 00:05:12,080

something i'm but uh no it's great you

137

00:05:16,070 --> 00:05:14,320

know settling in for the uh for the long

138

00:05:17,909 --> 00:05:16,080

run is great i'm looking forward to

139

00:05:19,110 --> 00:05:17,919

doing uh working with the scientists on

140

00:05:21,590 --> 00:05:19,120

the ground getting some interesting

141

00:05:23,270 --> 00:05:21,600

research done i'm really enjoying uh

142

00:05:24,870 --> 00:05:23,280

taking pictures out the window i'm

143

00:05:27,430 --> 00:05:24,880

seeing things on the planet earth that

144

00:05:29,029 --> 00:05:27,440

i've never took the time to see before

145

00:05:31,590 --> 00:05:29,039

so it's it's great living up here and

146

00:05:33,510 --> 00:05:31,600

i'm glad i have this opportunity

147

00:05:35,510 --> 00:05:33,520

mike how about you uh first flight up

148

00:05:39,590 --> 00:05:35,520

there what's uh what's the most fun part

149

00:05:43,110 --> 00:05:41,430

uh well that's easy it's it's

150

00:05:45,110 --> 00:05:43,120

weightlessness itself

151
00:05:47,110 --> 00:05:45,120
for me just being able to float around

152
00:05:49,110 --> 00:05:47,120
all the time is has been an incredible

153
00:05:50,950 --> 00:05:49,120
experience every time you go into a

154
00:05:52,629 --> 00:05:50,960
module you can you know changing your

155
00:05:54,390 --> 00:05:52,639
orientation looking at things a little

156
00:05:56,629 --> 00:05:54,400
bit differently uh

157
00:05:58,390 --> 00:05:56,639
it's just it's fun it's fun even when

158
00:06:00,550 --> 00:05:58,400
you're working because you're getting to

159
00:06:02,150 --> 00:06:00,560
float

160
00:06:03,830 --> 00:06:02,160
you know guys november 20th i guess

161
00:06:05,270 --> 00:06:03,840
marked the 15th anniversary of the

162
00:06:06,950 --> 00:06:05,280
station's first launch i was wondering

163
00:06:08,469 --> 00:06:06,960

if any of y'all had any

164

00:06:10,070 --> 00:06:08,479

i don't know any thoughts about that i

165

00:06:11,909 --> 00:06:10,080

mean 15 years is a long time for any

166

00:06:18,070 --> 00:06:11,919

spacecraft but for something as complex

167

00:06:22,390 --> 00:06:21,110

yeah definitely uh

168

00:06:24,309 --> 00:06:22,400

yes uh

169

00:06:25,830 --> 00:06:24,319

you know i was rick is the same but we

170

00:06:27,510 --> 00:06:25,840

were involved in the assembly flights of

171

00:06:29,350 --> 00:06:27,520

the international space station also i

172

00:06:31,350 --> 00:06:29,360

was involved in the development

173

00:06:33,110 --> 00:06:31,360

designing of the iss hardware especially

174

00:06:34,870 --> 00:06:33,120

for the japanese keyboard module and

175

00:06:37,350 --> 00:06:34,880

it's really wonderful to see those

176

00:06:38,629 --> 00:06:37,360

systems working that we got involved in

177

00:06:47,670 --> 00:06:38,639

the

178

00:06:48,629 --> 00:06:47,680

utilization is going on every day so i'm

179

00:06:52,629 --> 00:06:48,639

really

180

00:06:54,790 --> 00:06:52,639

of full utilization of the international

181

00:06:56,790 --> 00:06:54,800

space station

182

00:06:58,230 --> 00:06:56,800

you know boeing just completed a study

183

00:06:59,589 --> 00:06:58,240

uh that

184

00:07:01,029 --> 00:06:59,599

pretty much came to the conclusion that

185

00:07:02,710 --> 00:07:01,039

you can safely operate the station

186

00:07:04,710 --> 00:07:02,720

through 2020 and

187

00:07:06,230 --> 00:07:04,720

really with just one or two other areas

188

00:07:08,150 --> 00:07:06,240

of

189

00:07:09,589 --> 00:07:08,160

concern probably all the way to 2028

190

00:07:11,510 --> 00:07:09,599

which would be the 30th anniversary of

191

00:07:13,430 --> 00:07:11,520

the first launch what do you guys think

192

00:07:15,430 --> 00:07:13,440

about that i mean is it

193

00:07:17,110 --> 00:07:15,440

is this a machine you guys think can be

194

00:07:19,189 --> 00:07:17,120

maintained for that long i mean it just

195

00:07:23,510 --> 00:07:19,199

seems like an enormously long time for

196

00:07:27,749 --> 00:07:25,350

well you know the station we took uh

197

00:07:29,909 --> 00:07:27,759

took us 10 years or so to

198

00:07:31,990 --> 00:07:29,919

fully construct the space station you

199

00:07:33,510 --> 00:07:32,000

know for various reasons

200

00:07:35,270 --> 00:07:33,520

i think it's just starting to hit its

201
00:07:36,790 --> 00:07:35,280
stride and i think it's i think the

202
00:07:39,110 --> 00:07:36,800
space shuttle program if you look back

203
00:07:41,029 --> 00:07:39,120
at that it's a good example of we learn

204
00:07:42,790 --> 00:07:41,039
how to operate these vehicles we learn

205
00:07:44,309 --> 00:07:42,800
how to become make them more and more

206
00:07:46,790 --> 00:07:44,319
efficient and we operate them more and

207
00:07:48,950 --> 00:07:46,800
more safely every day that we we use

208
00:07:50,790 --> 00:07:48,960
them so i think the space station's just

209
00:07:52,950 --> 00:07:50,800
hitting its stride and i can't i've seen

210
00:07:55,110 --> 00:07:52,960
no reason we can't go another five or

211
00:07:56,629 --> 00:07:55,120
ten years and if the engineers say the

212
00:07:58,230 --> 00:07:56,639
hardware will hold together we got lots

213
00:08:00,309 --> 00:07:58,240

of spare parts up here we're ready to

214

00:08:02,070 --> 00:08:00,319

fix things as necessary

215

00:08:03,749 --> 00:08:02,080

i don't see any reason not to keep going

216

00:08:05,430 --> 00:08:03,759

as long as we can

217

00:08:07,110 --> 00:08:05,440

what about and i know i hate to ask you

218

00:08:08,629 --> 00:08:07,120

guys politics questions but obviously to

219

00:08:10,869 --> 00:08:08,639

operate the station you've got to fund

220

00:08:12,790 --> 00:08:10,879

it and nasa has a lot of stuff on its

221

00:08:14,390 --> 00:08:12,800

plate right now competing for those

222

00:08:17,350 --> 00:08:14,400

scarce dollars well how do y'all see the

223

00:08:18,950 --> 00:08:17,360

value of station and ongoing research

224

00:08:20,550 --> 00:08:18,960

considering that you're starting to pay

225

00:08:22,150 --> 00:08:20,560

for an exploration program you're trying

226

00:08:24,150 --> 00:08:22,160

to encourage the development of

227

00:08:26,150 --> 00:08:24,160

commercial manned spacecraft you know

228

00:08:28,309 --> 00:08:26,160

there's deficit concerns and all of that

229

00:08:30,469 --> 00:08:28,319

what is the value of station

230

00:08:34,630 --> 00:08:30,479

in that constellation of competing

231

00:08:38,709 --> 00:08:36,310

well i think uh there's a there's a

232

00:08:40,630 --> 00:08:38,719

whole lot of value to the station uh it

233

00:08:43,430 --> 00:08:40,640

can range from the fact that this is

234

00:08:45,910 --> 00:08:43,440

allowing uh the crews to gain experience

235

00:08:47,910 --> 00:08:45,920

on operating vehicles of this nature the

236

00:08:49,350 --> 00:08:47,920

science that's going on up here is is

237

00:08:51,509 --> 00:08:49,360

absolutely incredible not only for

238

00:08:53,750 --> 00:08:51,519

future exploration so all of those

239

00:08:55,350 --> 00:08:53,760

programs down the road there's still a

240

00:08:56,470 --> 00:08:55,360

lot of unanswered questions and we're

241

00:08:58,630 --> 00:08:56,480

going to be trying to answer some of

242

00:09:00,230 --> 00:08:58,640

those while we're up here and as well as

243

00:09:03,350 --> 00:09:00,240

earth benefit that's coming out of that

244

00:09:05,509 --> 00:09:03,360

so i i think the value added is is there

245

00:09:06,949 --> 00:09:05,519

and i think it's certainly a benefit and

246

00:09:08,870 --> 00:09:06,959

it's it's something that's going to be

247

00:09:10,949 --> 00:09:08,880

utilized in order for us to get ready to

248

00:09:12,389 --> 00:09:10,959

take that next step

249

00:09:14,150 --> 00:09:12,399

well guys are telling me i'm out of time

250

00:09:15,190 --> 00:09:14,160

have a have a great time up there look

251

00:09:16,949 --> 00:09:15,200

forward to talking with you down the

252

00:09:19,670 --> 00:09:16,959

road and have a good holiday thanks a

253

00:09:23,110 --> 00:09:21,350

well thank you yeah thank you very much

254

00:09:26,949 --> 00:09:23,120

it was great talking to you and same

255

00:09:31,829 --> 00:09:28,949

station this is houston acr that

256

00:09:32,790 --> 00:09:31,839

concludes the cbs news pass portion of

257

00:09:34,710 --> 00:09:32,800

the event

258

00:09:39,670 --> 00:09:34,720

please stand by for a voice check from

259

00:09:45,670 --> 00:09:42,470

station this is komu tv how do you hear

260

00:09:51,430 --> 00:09:47,670

well we hear you loud and clear welcome

261

00:09:54,870 --> 00:09:53,269

thank you so much i would like to start

262

00:09:56,790 --> 00:09:54,880

out talking about some of the most

263

00:09:59,430 --> 00:09:56,800

recent research and experiments

264

00:10:01,350 --> 00:09:59,440

happening on board the iss if you guys

265

00:10:05,430 --> 00:10:01,360

would like to take turns just sharing

266

00:10:09,269 --> 00:10:07,829

yeah you bet i'll start off by you know

267

00:10:10,870 --> 00:10:09,279

you're looking at three guinea pigs

268

00:10:12,949 --> 00:10:10,880

right now a lot of the research that's

269

00:10:14,389 --> 00:10:12,959

going on up here involves us and and

270

00:10:15,829 --> 00:10:14,399

what happens to the human body and

271

00:10:17,910 --> 00:10:15,839

weightlessness

272

00:10:19,670 --> 00:10:17,920

for example we're doing research on the

273

00:10:21,590 --> 00:10:19,680

spinal cord and how

274

00:10:22,710 --> 00:10:21,600

it changes in the weightless environment

275

00:10:25,509 --> 00:10:22,720

and so we're doing things like

276

00:10:27,269 --> 00:10:25,519

ultrasounds on it and those ultrasounds

277

00:10:28,630 --> 00:10:27,279

are not only telling us what's happening

278

00:10:30,870 --> 00:10:28,640

to our spine but we're developing

279

00:10:34,230 --> 00:10:30,880

techniques that can also be used for

280

00:10:35,829 --> 00:10:34,240

remote use down on earth so from that

281

00:10:37,670 --> 00:10:35,839

standpoint the human research that we're

282

00:10:39,350 --> 00:10:37,680

doing not only is going to help us go

283

00:10:41,190 --> 00:10:39,360

further out into

284

00:10:43,110 --> 00:10:41,200

the the universe and the solar system

285

00:10:46,389 --> 00:10:43,120

but is also helping us right there on

286

00:10:51,190 --> 00:10:48,550

well on the japanese uh robotics

287

00:10:53,590 --> 00:10:51,200

operation side we have deployed four

288

00:10:56,710 --> 00:10:53,600

satellites actually using the japanese

289

00:10:58,949 --> 00:10:56,720

robotic arm and the airlock usually when

290

00:11:01,190 --> 00:10:58,959

you talk about the satellite deploy we

291

00:11:03,590 --> 00:11:01,200

use you usually use a rocket and then

292

00:11:05,910 --> 00:11:03,600

unlaunch it from the ground but we first

293

00:11:07,990 --> 00:11:05,920

bring it to the station and then using

294

00:11:09,829 --> 00:11:08,000

the robotic arm to deploy those small

295

00:11:12,470 --> 00:11:09,839

satellites that's an experimental stage

296

00:11:15,269 --> 00:11:12,480

but this has accomplished a lot

297

00:11:17,590 --> 00:11:15,279

it makes it easier for the developers to

298

00:11:20,389 --> 00:11:17,600

to package the small satellites and then

299

00:11:22,230 --> 00:11:20,399

deliver to orbit this is one example of

300

00:11:28,870 --> 00:11:22,240

engineering experiments that we are

301

00:11:32,630 --> 00:11:30,870

yeah from my perspective uh i just

302

00:11:34,230 --> 00:11:32,640

arrived four weeks ago so i like to say

303

00:11:35,910 --> 00:11:34,240

i'm still getting warmed up on the

304

00:11:38,150 --> 00:11:35,920

scientific research but i have been

305

00:11:39,750 --> 00:11:38,160

involved in a few uh right now in the

306

00:11:41,750 --> 00:11:39,760

columbus module we're checking out a

307

00:11:43,509 --> 00:11:41,760

facility called bio lab

308

00:11:45,269 --> 00:11:43,519

and once that is uh opera fully

309

00:11:47,350 --> 00:11:45,279

operational and up and uh and checked

310

00:11:49,670 --> 00:11:47,360

out we'll be doing experiments with the

311

00:11:51,590 --> 00:11:49,680

researchers on the ground in various and

312

00:11:53,269 --> 00:11:51,600

various things and then there's also

313

00:11:55,350 --> 00:11:53,279

some fluid controls experiments that

314

00:11:57,990 --> 00:11:55,360

we're doing up here so it's basically

315

00:11:59,430 --> 00:11:58,000

across the whole spectrum of various

316

00:12:01,910 --> 00:11:59,440

scientific fields that we're doing

317

00:12:03,910 --> 00:12:01,920

research up here and where it leads is

318

00:12:05,590 --> 00:12:03,920

is who knows is that's why we do this

319

00:12:09,990 --> 00:12:05,600

research because great things can come

320

00:12:13,590 --> 00:12:12,069

right and i have actually kept up with

321

00:12:17,190 --> 00:12:13,600

some of those experiments through

322

00:12:18,629 --> 00:12:17,200

twitter posts um astro and i eli and i

323

00:12:21,110 --> 00:12:18,639

mike can you talk to me a little bit

324

00:12:23,110 --> 00:12:21,120

about your use of social media to

325

00:12:25,269 --> 00:12:23,120

communicate with your twitter twitter

326

00:12:28,389 --> 00:12:25,279

following and then uh your family as

327

00:12:32,949 --> 00:12:31,030

yeah you bet uh you know to be honest i

328

00:12:35,190 --> 00:12:32,959

i really wasn't into the the social

329

00:12:37,350 --> 00:12:35,200

media before uh really about a year

330

00:12:38,790 --> 00:12:37,360

before launch and then i started doing

331

00:12:40,949 --> 00:12:38,800

uh the twitter

332

00:12:42,870 --> 00:12:40,959

and and i've really enjoyed it actually

333

00:12:45,030 --> 00:12:42,880

it's kind of fun to try and pick out

334

00:12:47,269 --> 00:12:45,040

those unique uh events that are

335

00:12:49,750 --> 00:12:47,279

happening up here on station or unique

336

00:12:52,389 --> 00:12:49,760

uh views that we get to see either of

337

00:12:54,550 --> 00:12:52,399

the earth or of of the station itself

338

00:12:56,870 --> 00:12:54,560

and share that with people and that's a

339

00:12:59,350 --> 00:12:56,880

nice it's a nice media for us to be able

340

00:13:03,590 --> 00:12:59,360

to do that and and so it's been it's

341

00:13:08,230 --> 00:13:06,230

and while i have you you grew up in

342

00:13:09,910 --> 00:13:08,240

rural missouri can you talk to me a

343

00:13:12,470 --> 00:13:09,920

little bit about maybe a message you

344

00:13:15,750 --> 00:13:12,480

would like to send back to folks here in

345

00:13:18,150 --> 00:13:16,629

yeah

346

00:13:20,710 --> 00:13:18,160

i'd love to say hi to everybody in

347

00:13:22,389 --> 00:13:20,720

missouri and thanks for all the support

348

00:13:25,269 --> 00:13:22,399

over the years i certainly wouldn't have

349

00:13:27,750 --> 00:13:25,279

gotten here without without all of that

350

00:13:29,590 --> 00:13:27,760

you know missouri is a wonderful place i

351

00:13:31,269 --> 00:13:29,600

i haven't lived there

352

00:13:32,949 --> 00:13:31,279

long term since i finished high school

353

00:13:34,790 --> 00:13:32,959

and went off to college but i certainly

354

00:13:38,870 --> 00:13:34,800

miss it and i enjoy the time when i get

355

00:13:41,910 --> 00:13:39,829

all right

356

00:13:44,310 --> 00:13:41,920

now some people view the space

357

00:13:46,870 --> 00:13:44,320

expeditions as costly and a large

358

00:13:49,430 --> 00:13:46,880

expense for the nation can you talk to

359

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

me about how you guys think the work you

360

00:13:58,550 --> 00:13:51,199

are doing is really paying off and

361

00:14:02,629 --> 00:14:00,790

yes it's of course it's quite expensive

362

00:14:04,230 --> 00:14:02,639

to build the space station and operate

363

00:14:06,870 --> 00:14:04,240

it and maintain it but if you look at

364

00:14:09,110 --> 00:14:06,880

the overall cost to the uh

365

00:14:11,590 --> 00:14:09,120

it's less than one percent

366

00:14:14,069 --> 00:14:11,600

of the tax dollars goes to nasa so we're

367

00:14:16,069 --> 00:14:14,079

talking fractions of a penny from every

368

00:14:17,750 --> 00:14:16,079

dollar go to nasa so in the scheme of

369

00:14:19,590 --> 00:14:17,760

things it's not very much compared

370

00:14:20,710 --> 00:14:19,600

relative to other programs but that

371

00:14:22,949 --> 00:14:20,720

doesn't mean we should be doing it

372

00:14:25,030 --> 00:14:22,959

unless it has good reason and there have

373

00:14:26,629 --> 00:14:25,040

been many studies throughout the years

374

00:14:27,990 --> 00:14:26,639

and i've seen numbers like a seven to

375

00:14:30,870 --> 00:14:28,000

one ratio

376

00:14:33,590 --> 00:14:30,880

where nasa the dollar spent on nasa

377

00:14:35,509 --> 00:14:33,600

returned the economy seven times over so

378

00:14:37,350 --> 00:14:35,519

there's a lot of other studies out there

379

00:14:39,110 --> 00:14:37,360

that show similar numbers but i think

380

00:14:41,750 --> 00:14:39,120

there's many other reasons that you

381

00:14:44,629 --> 00:14:41,760

can't quantify with just dollar values

382

00:14:46,470 --> 00:14:44,639

just the uh the fact that as humans we

383

00:14:48,150 --> 00:14:46,480

want to go and explore we have a lot of

384

00:14:49,910 --> 00:14:48,160

questions that we want to get answered

385

00:14:51,189 --> 00:14:49,920

and that's why we do the things we do

386

00:14:55,829 --> 00:14:51,199

that's why we

387

00:14:58,069 --> 00:14:55,839

up here doing research on board the

388

00:15:00,069 --> 00:14:58,079

international space station right now in

389

00:15:01,269 --> 00:15:00,079

order to better life on earth and in

390

00:15:03,430 --> 00:15:01,279

order to

391

00:15:06,150 --> 00:15:03,440

help us move further beyond the low

392

00:15:09,430 --> 00:15:06,160

earth orbit so a lot of good benefits

393

00:15:10,629 --> 00:15:09,440

both monetarily and uh just

394

00:15:16,069 --> 00:15:10,639

you know

395

00:15:20,470 --> 00:15:18,389

all right and um

396

00:15:22,710 --> 00:15:20,480

if you would like to talk to me a little

397

00:15:24,389 --> 00:15:22,720

bit about how people are always curious

398

00:15:26,949 --> 00:15:24,399

how you acclimate

399

00:15:29,670 --> 00:15:26,959

once you get back on earth have you done

400

00:15:34,230 --> 00:15:29,680

anything to prepare for when you are

401
00:15:37,509 --> 00:15:36,150
yeah well let me first start to say

402
00:15:39,110 --> 00:15:37,519
there was an acclimation period when i

403
00:15:40,790 --> 00:15:39,120
first got up here in fact when i first

404
00:15:42,470 --> 00:15:40,800
arrived on station in fact when i first

405
00:15:44,310 --> 00:15:42,480
arrived in orbit

406
00:15:46,389 --> 00:15:44,320
i felt like i was sitting upside down on

407
00:15:48,550 --> 00:15:46,399
the ceiling and falling and that feeling

408
00:15:50,790 --> 00:15:48,560
stuck with me for probably the first 24

409
00:15:53,110 --> 00:15:50,800
hours and so there is certainly a period

410
00:15:55,110 --> 00:15:53,120
of time to get acclimated to the the

411
00:15:56,790 --> 00:15:55,120
weightless environment and and realizing

412
00:15:58,470 --> 00:15:56,800
that there's not really an up or down

413
00:15:59,670 --> 00:15:58,480

and and you can just orientate yourself

414

00:16:01,269 --> 00:15:59,680

in any way

415

00:16:02,470 --> 00:16:01,279

since this is my first flight i haven't

416

00:16:07,269 --> 00:16:02,480

landed yet so i'm going to let one of

417

00:16:11,749 --> 00:16:09,189

yeah landing is very interesting uh

418

00:16:14,389 --> 00:16:11,759

vestibular system is a little uh

419

00:16:17,670 --> 00:16:14,399

i don't know uh not so used to this 1g

420

00:16:20,389 --> 00:16:17,680

environment so for a day or two

421

00:16:21,350 --> 00:16:20,399

it's somehow i have some balance issues

422

00:16:22,550 --> 00:16:21,360

but

423

00:16:23,670 --> 00:16:22,560

after that

424

00:16:25,590 --> 00:16:23,680

you know

425

00:16:28,310 --> 00:16:25,600

you go back to normal when i first drove

426

00:16:30,710 --> 00:16:28,320

my car after landing i thought i had a

427

00:16:33,509 --> 00:16:30,720

really luxurious car because i really

428

00:16:35,670 --> 00:16:33,519

felt the suspension got so nice

429

00:16:37,829 --> 00:16:35,680

so but it disappeared after a few days

430

00:16:40,710 --> 00:16:37,839

and i was so surprised coming up here

431

00:16:43,189 --> 00:16:40,720

and going down human body can react to a

432

00:16:51,350 --> 00:16:43,199

new environment very quickly we're so

433

00:16:56,150 --> 00:16:53,350

all right and

434

00:16:57,590 --> 00:16:56,160

you are all spending the holidays in the

435

00:17:00,790 --> 00:16:57,600

iss

436

00:17:06,630 --> 00:17:00,800

family

437

00:17:11,029 --> 00:17:08,949

yeah that's uh that's a great question

438

00:17:12,630 --> 00:17:11,039

and you know obviously we we do miss our

439

00:17:15,029 --> 00:17:12,640

families but uh

440

00:17:16,549 --> 00:17:15,039

all of our organizations nasa and uh

441

00:17:17,669 --> 00:17:16,559

jackson they they do a great job of

442

00:17:19,429 --> 00:17:17,679

helping us keep in touch with our

443

00:17:21,829 --> 00:17:19,439

families so that certainly helps through

444

00:17:24,230 --> 00:17:21,839

the holiday season but for me i would

445

00:17:26,630 --> 00:17:24,240

say a couple things fresh produce is

446

00:17:28,230 --> 00:17:26,640

something that you i certainly miss and

447

00:17:34,470 --> 00:17:28,240

and then you know being able to take a

448

00:17:39,270 --> 00:17:37,430

and mike you played football at the

449

00:17:40,630 --> 00:17:39,280

university of illinois

450

00:17:43,510 --> 00:17:40,640

you know i don't know if you have been

451
00:17:45,590 --> 00:17:43,520
keeping up with missouri football but

452
00:17:47,510 --> 00:17:45,600
now we are advancing

453
00:17:50,230 --> 00:17:47,520
and is there a message you would like to

454
00:17:54,950 --> 00:17:50,240
send maybe our mizzou football team

455
00:17:58,310 --> 00:17:56,630
yeah absolutely

456
00:18:00,390 --> 00:17:58,320
in fact congratulations to just an

457
00:18:02,310 --> 00:18:00,400
amazing season seasons like this don't

458
00:18:04,070 --> 00:18:02,320
come along very often and so you just

459
00:18:05,750 --> 00:18:04,080
have to cherish that moment not only for

460
00:18:07,510 --> 00:18:05,760
the football team but also for all the

461
00:18:09,669 --> 00:18:07,520
fans everybody out there that that loves

462
00:18:11,909 --> 00:18:09,679
the game of football it is it's just

463
00:18:13,430 --> 00:18:11,919

fantastic sees this moment because

464

00:18:14,549 --> 00:18:13,440

before you know it

465

00:18:16,390 --> 00:18:14,559

it's gone

466

00:18:17,510 --> 00:18:16,400

and you might find yourself floating on

467

00:18:22,470 --> 00:18:17,520

the space station and not playing

468

00:18:26,710 --> 00:18:24,870

and you had talked about

469

00:18:28,870 --> 00:18:26,720

they help you communicate with your

470

00:18:31,510 --> 00:18:28,880

families you know through the holidays

471

00:18:33,510 --> 00:18:31,520

just talk to me a little bit more about

472

00:18:34,710 --> 00:18:33,520

how often you are able to speak with

473

00:18:36,789 --> 00:18:34,720

them and

474

00:18:41,270 --> 00:18:36,799

email through the phone just the best

475

00:18:45,909 --> 00:18:44,310

yeah it's uh it's pretty uh good setup

476

00:18:47,750 --> 00:18:45,919

here obviously we have email that we

477

00:18:49,830 --> 00:18:47,760

could send on a daily basis but we also

478

00:18:51,750 --> 00:18:49,840

have what's called the ip phone and it's

479

00:18:54,310 --> 00:18:51,760

we can make a phone call anytime there's

480

00:18:57,029 --> 00:18:54,320

a video or ku coverage with the ground

481

00:18:58,950 --> 00:18:57,039

and that's probably more than 50 maybe

482

00:19:00,950 --> 00:18:58,960

60 percent of the time

483

00:19:03,350 --> 00:19:00,960

uh and then once a week we get a video

484

00:19:05,430 --> 00:19:03,360

conference with our spouses and our

485

00:19:07,669 --> 00:19:05,440

children or with close friends if we

486

00:19:09,430 --> 00:19:07,679

want to so it's great it's a great way

487

00:19:10,950 --> 00:19:09,440

to keep in touch with the with the

488

00:19:12,630 --> 00:19:10,960

family back home and even with our

489

00:19:14,230 --> 00:19:12,640

friends and everybody enjoys getting a

490

00:19:18,630 --> 00:19:14,240

phone call from space every once in a

491

00:19:23,430 --> 00:19:20,789

all right and one last question just

492

00:19:25,270 --> 00:19:23,440

from a weather standpoint have you been

493

00:19:27,270 --> 00:19:25,280

able to see the phenomenon known as

494

00:19:34,470 --> 00:19:27,280

sprites up there

495

00:19:41,510 --> 00:19:38,549

uh on this flight i have not seen it yet

496

00:19:44,070 --> 00:19:41,520

in my previous flights on the shuttle i

497

00:19:47,270 --> 00:19:44,080

think i saw sprite the lightning going

498

00:19:48,789 --> 00:19:47,280

up above the clouds and this time we

499

00:19:50,549 --> 00:19:48,799

have really nice

500

00:19:52,230 --> 00:19:50,559

video cameras and

501
00:19:54,390 --> 00:19:52,240
photo cameras so hopefully we will be

502
00:19:56,549 --> 00:19:54,400
able to capture some of those sprite

503
00:20:00,789 --> 00:19:56,559
events and i'm looking for that

504
00:20:05,669 --> 00:20:03,350
all right well thank you for your time

505
00:20:09,270 --> 00:20:05,679
and good luck with the projects the rest

506
00:20:14,230 --> 00:20:10,870
thank you very much it was great talk to

507
00:20:19,270 --> 00:20:15,990
station this is houston acr that

508
00:20:24,310 --> 00:20:22,630
and thank you cbs news pass and komu tv