



1
00:00:03,990 --> 00:00:02,070

we're ready

2
00:00:08,870 --> 00:00:04,000

google mrs houston please call endeavour

3
00:00:13,589 --> 00:00:10,629

let's uh do what we've got to do which

4
00:00:15,829 --> 00:00:13,599

is say hello to them and so what i do is

5
00:00:21,830 --> 00:00:15,839

this i say endeavor iss this is miles

6
00:00:27,029 --> 00:00:23,750

miles we have you loud and clear how do

7
00:00:30,870 --> 00:00:29,109

five by five commander mark kelly good

8
00:00:32,709 --> 00:00:30,880

to see you guys you look kale and hardy

9
00:00:35,510 --> 00:00:32,719

congratulations on installing the alpha

10
00:00:37,510 --> 00:00:35,520

magnetic spectrometer that's great news

11
00:00:38,950 --> 00:00:37,520

uh i wanted to before we get to the

12
00:00:41,110 --> 00:00:38,960

questions from folks there wasn't a lot

13
00:00:44,790 --> 00:00:41,120

of time for folks on google moderator to

14

00:00:46,310 --> 00:00:44,800

weigh in on the tile damage i'm curious

15

00:00:48,869 --> 00:00:46,320

what your thoughts are on what you've

16

00:00:55,590 --> 00:00:48,879

seen how concerned are you about these

17

00:00:59,189 --> 00:00:57,670

yeah so we took a look this morning at

18

00:01:02,150 --> 00:00:59,199

some of the photos and the message

19

00:01:04,469 --> 00:01:02,160

traffic that came up there's three areas

20

00:01:05,509 --> 00:01:04,479

that you know are a little bit of

21

00:01:07,910 --> 00:01:05,519

concern

22

00:01:09,429 --> 00:01:07,920

the team on the ground will decide over

23

00:01:11,429 --> 00:01:09,439

the next couple days if we have to take

24

00:01:13,270 --> 00:01:11,439

a closer look at it but

25

00:01:15,030 --> 00:01:13,280

the current damage doesn't seem i mean

26
00:01:19,830 --> 00:01:15,040
we've seen this kind of stuff before and

27
00:01:24,070 --> 00:01:22,070
all right good good without further ado

28
00:01:25,670 --> 00:01:24,080
let's get to some of our questions uh

29
00:01:27,510 --> 00:01:25,680
folks on google moderator weighed in

30
00:01:29,109 --> 00:01:27,520
with a lot of enthusiasm

31
00:01:31,510 --> 00:01:29,119
a lot of good questions and the first

32
00:01:33,030 --> 00:01:31,520
one is a video question that comes from

33
00:01:35,190 --> 00:01:33,040
spencer kelly

34
00:01:40,069 --> 00:01:35,200
i think no relation

35
00:01:42,310 --> 00:01:40,079
in miramichi canada let's roll it

36
00:01:43,990 --> 00:01:42,320
hi commander kelly i'm spencer kelly but

37
00:01:46,550 --> 00:01:44,000
i don't think we're related

38
00:01:48,870 --> 00:01:46,560

i live in miami canada i was wondering

39

00:01:50,710 --> 00:01:48,880

after four times going space

40

00:01:58,789 --> 00:01:50,720

what do you look forward to most and go

41

00:02:01,910 --> 00:02:00,469

hey hi spencer

42

00:02:04,149 --> 00:02:01,920

i don't know could you hear it we have

43

00:02:05,429 --> 00:02:04,159

an honorary canadian on board next to me

44

00:02:09,190 --> 00:02:05,439

yeah we heard we heard the question

45

00:02:11,510 --> 00:02:09,200

miles uh after four times in flight okay

46

00:02:13,750 --> 00:02:11,520

what do i look forward to the most

47

00:02:15,430 --> 00:02:13,760

well you know these missions are very

48

00:02:17,350 --> 00:02:15,440

very challenging and very rewarding

49

00:02:19,510 --> 00:02:17,360

there's a lot to do

50

00:02:21,190 --> 00:02:19,520

i you know i particularly like looking

51
00:02:23,190 --> 00:02:21,200
at the earth and the small amount of

52
00:02:25,670 --> 00:02:23,200
chance we get but also

53
00:02:27,670 --> 00:02:25,680
flying through the space station is an

54
00:02:32,790 --> 00:02:27,680
awful lot of fun so the you know those

55
00:02:37,750 --> 00:02:34,949
all right let's go to question number

56
00:02:40,949 --> 00:02:37,760
two this one is a text question actually

57
00:02:42,949 --> 00:02:40,959
a couple of questions uh for you mark

58
00:02:45,350 --> 00:02:42,959
uh one of them comes from watertown new

59
00:02:47,589 --> 00:02:45,360
york the first one an observation from

60
00:02:49,670 --> 00:02:47,599
an old marine to an old sailor i don't

61
00:02:52,070 --> 00:02:49,680
know if you like the old part but he's a

62
00:02:53,990 --> 00:02:52,080
sailor for sure come back safely what's

63
00:02:55,190 --> 00:02:54,000

in store for our space program remains

64

00:02:57,350 --> 00:02:55,200

to be seen

65

00:02:59,190 --> 00:02:57,360

it will be exciting but not as exciting

66

00:03:01,430 --> 00:02:59,200

as seeing gabby back on her feet at full

67

00:03:03,030 --> 00:03:01,440

throttle and then this one from saint

68

00:03:05,750 --> 00:03:03,040

mary's ohio

69

00:03:08,550 --> 00:03:05,760

uh this one is

70

00:03:10,390 --> 00:03:08,560

he says mr gifford it is difficult is it

71

00:03:12,630 --> 00:03:10,400

difficult leaving your wife even though

72

00:03:15,110 --> 00:03:12,640

she's doing well i think she would want

73

00:03:16,790 --> 00:03:15,120

to be where you are now god bless you

74

00:03:18,949 --> 00:03:16,800

and your wife and the whole crew and

75

00:03:21,670 --> 00:03:18,959

mark i'll just button it up with i know

76

00:03:23,430 --> 00:03:21,680

gabby had surgery yesterday i assume

77

00:03:28,390 --> 00:03:23,440

you've had some updates uh how are

78

00:03:32,949 --> 00:03:29,910

well i had the chance at the end of the

79

00:03:34,949 --> 00:03:32,959

day to call her mom and her chief of

80

00:03:36,470 --> 00:03:34,959

staff and my brother periodically

81

00:03:38,070 --> 00:03:36,480

through the

82

00:03:39,990 --> 00:03:38,080

as the surgery was going on and she's

83

00:03:42,149 --> 00:03:40,000

doing really well everything went as

84

00:03:44,869 --> 00:03:42,159

planned her neurosurgeons

85

00:03:46,309 --> 00:03:44,879

are very happy she's recuperating and

86

00:03:51,910 --> 00:03:46,319

she's actually getting back to therapy

87

00:03:55,910 --> 00:03:53,589

now of course gabby was at the launch i

88

00:03:57,509 --> 00:03:55,920

understand you're carrying uh her

89

00:04:00,869 --> 00:03:57,519

wedding ring with you i don't you have

90

00:04:02,470 --> 00:04:00,879

it on you and also i'm just curious

91

00:04:07,190 --> 00:04:02,480

in the i know you have a busy day up

92

00:04:09,670 --> 00:04:08,470

it's great right around your neck it's

93

00:04:11,830 --> 00:04:09,680

right there

94

00:04:13,830 --> 00:04:11,840

in in the course of your in the course

95

00:04:15,910 --> 00:04:13,840

of your busy day

96

00:04:18,069 --> 00:04:15,920

obviously you have a lot to think about

97

00:04:23,110 --> 00:04:18,079

up there your thoughts must go to her as

98

00:04:26,230 --> 00:04:25,110

yeah obviously this has been a long road

99

00:04:29,909 --> 00:04:26,240

since

100

00:04:31,909 --> 00:04:29,919

january 8th for us it um

101
00:04:32,629 --> 00:04:31,919
her having surgery

102
00:04:34,550 --> 00:04:32,639
uh

103
00:04:36,469 --> 00:04:34,560
yesterday was not

104
00:04:38,629 --> 00:04:36,479
planned all along but she was ready and

105
00:04:40,790 --> 00:04:38,639
the doctors you know wanted wanted to do

106
00:04:42,790 --> 00:04:40,800
it then and didn't make sense to wait a

107
00:04:44,390 --> 00:04:42,800
couple weeks until i got back

108
00:04:46,550 --> 00:04:44,400
so i've been thinking a little bit a

109
00:04:48,950 --> 00:04:46,560
little bit about that but it

110
00:04:51,430 --> 00:04:48,960
it's it's pretty common surgery and it

111
00:04:53,510 --> 00:04:51,440
went really well

112
00:04:55,590 --> 00:04:53,520
she was really excited to be at the

113
00:04:56,950 --> 00:04:55,600

launch really enjoyed it a lot she was

114

00:04:59,110 --> 00:04:56,960

there with

115

00:05:01,670 --> 00:04:59,120

not only my kids but all the children

116

00:05:03,670 --> 00:05:01,680

and spouses of the rest of the crew and

117

00:05:05,029 --> 00:05:03,680

they really had a great time despite the

118

00:05:07,110 --> 00:05:05,039

fact that we

119

00:05:10,790 --> 00:05:07,120

went through some clouds there in about

120

00:05:13,590 --> 00:05:12,310

yeah i think it was about about 20

121

00:05:15,590 --> 00:05:13,600

seconds after launch you guys

122

00:05:18,469 --> 00:05:15,600

disappeared uh i tell you what pass the

123

00:05:21,110 --> 00:05:18,479

mic over to ron garan ron uh who is a

124

00:05:23,670 --> 00:05:21,120

space station keeper and uh has spent a

125

00:05:25,430 --> 00:05:23,680

little bit of time up there you tweeted

126

00:05:27,189 --> 00:05:25,440

a photo

127

00:05:29,590 --> 00:05:27,199

of the mississippi river the other day

128

00:05:31,110 --> 00:05:29,600

and nasa has been sending images as well

129

00:05:33,270 --> 00:05:31,120

what's it like to see

130

00:05:37,270 --> 00:05:33,280

the devastation of that flooding from

131

00:05:40,870 --> 00:05:38,710

well miles that's that's an interesting

132

00:05:43,029 --> 00:05:40,880

question because you know we we do have

133

00:05:44,870 --> 00:05:43,039

this sense of isolation being up here

134

00:05:46,950 --> 00:05:44,880

you know you know living off the planet

135

00:05:48,629 --> 00:05:46,960

but at the same time you know even

136

00:05:50,629 --> 00:05:48,639

though we have this sense of isolation

137

00:05:52,230 --> 00:05:50,639

we have we have the ability to be more

138

00:05:54,469 --> 00:05:52,240

connected with things on the ground

139

00:05:56,390 --> 00:05:54,479

because we fly over it all the time so

140

00:05:58,230 --> 00:05:56,400

you know watching you know

141

00:06:00,710 --> 00:05:58,240

the mississippi river flooding on the

142

00:06:02,390 --> 00:06:00,720

news and then flying over it are two

143

00:06:04,870 --> 00:06:02,400

different things and seeing with our own

144

00:06:05,909 --> 00:06:04,880

eyes the uh you know the devastation and

145

00:06:10,550 --> 00:06:05,919

and the

146

00:06:11,670 --> 00:06:10,560

area of the of the country uh you know

147

00:06:13,430 --> 00:06:11,680

is really something and we feel a

148

00:06:15,749 --> 00:06:13,440

responsibility to try and document that

149

00:06:17,510 --> 00:06:15,759

as best we can as as time allows and

150

00:06:21,029 --> 00:06:17,520

take as many pictures of that area as we

151

00:06:24,550 --> 00:06:22,550

all right our next question is a video

152

00:06:25,590 --> 00:06:24,560

question it's aimed at mike fink so

153

00:06:27,189 --> 00:06:25,600

while we're playing it why don't you

154

00:06:28,550 --> 00:06:27,199

send the microphone over to mike and

155

00:06:30,230 --> 00:06:28,560

let's listen this one comes from

156

00:06:32,830 --> 00:06:30,240

wilmington north carolina from cali

157

00:06:36,469 --> 00:06:32,840

davis and anderson

158

00:06:38,309 --> 00:06:36,479

brandt i'm callie davis and i'm anderson

159

00:06:39,590 --> 00:06:38,319

and we're from wilmington north carolina

160

00:06:46,870 --> 00:06:39,600

and we were wondering what's the hardest

161

00:06:50,790 --> 00:06:48,790

the hardest thing about being in space

162

00:06:53,430 --> 00:06:50,800

hello from uh the international space

163

00:06:55,350 --> 00:06:53,440

station got your question and uh cali

164

00:06:57,430 --> 00:06:55,360

and anderson my favorite thing about

165

00:06:58,950 --> 00:06:57,440

being in space is flying and yesterday

166

00:07:00,469 --> 00:06:58,960

we opened up the hatch the international

167

00:07:02,629 --> 00:07:00,479

space station and i could really stretch

168

00:07:04,710 --> 00:07:02,639

my legs and fly from one end to the

169

00:07:06,550 --> 00:07:04,720

other we have a beautiful space station

170

00:07:07,830 --> 00:07:06,560

i also really like looking at our

171

00:07:13,189 --> 00:07:07,840

beautiful planet

172

00:07:17,350 --> 00:07:14,390

all right

173

00:07:19,510 --> 00:07:17,360

we we we had promised to see um

174

00:07:21,350 --> 00:07:19,520

greg zamatov and greg johnson obviously

175

00:07:22,950 --> 00:07:21,360

they're busy doing other things andrew

176
00:07:25,830 --> 00:07:22,960
feustel is there once you pass the

177
00:07:27,430 --> 00:07:25,840
microphone to him uh and for viewers out

178
00:07:29,670 --> 00:07:27,440
there andrew um

179
00:07:31,749 --> 00:07:29,680
flew uh we got is you gonna bring them

180
00:07:34,070 --> 00:07:31,759
in you gonna bring them in now uh drew

181
00:07:36,150 --> 00:07:34,080
uh was on the last servicing mission to

182
00:07:37,589 --> 00:07:36,160
the hubble space telescope uh performed

183
00:07:39,749 --> 00:07:37,599
a series of spacewalks out there has

184
00:07:42,150 --> 00:07:39,759
some more space walking duties ahead and

185
00:07:44,390 --> 00:07:42,160
here's the question for you drew uh oh

186
00:07:46,629 --> 00:07:44,400
hey we got we're getting a late ad here

187
00:07:47,589 --> 00:07:46,639
ah there there's box greg johnson comes

188
00:07:49,510 --> 00:07:47,599

in

189

00:07:51,270 --> 00:07:49,520

you know the pilot never gets enough

190

00:07:55,110 --> 00:07:51,280

respect i'm glad you did that that was a

191

00:07:58,070 --> 00:07:55,120

good move uh drew feustel uh this one um

192

00:08:00,390 --> 00:07:58,080

from the the grinning man from youtube

193

00:08:01,350 --> 00:08:00,400

the question is how realistic is obama's

194

00:08:04,309 --> 00:08:01,360

promise

195

00:08:15,189 --> 00:08:04,319

to visit the planet mars by 2030 do you

196

00:08:20,070 --> 00:08:16,869

hey hi miles how you doing thanks for

197

00:08:21,749 --> 00:08:20,080

the thanks for the question and um

198

00:08:23,990 --> 00:08:21,759

it's sort of a bigger question i think

199

00:08:25,430 --> 00:08:24,000

to answer is uh you know what direction

200

00:08:27,189 --> 00:08:25,440

we're going and i think we're all as

201
00:08:29,189 --> 00:08:27,199
space explorers interested in uh

202
00:08:31,270 --> 00:08:29,199
eventually getting on to mars

203
00:08:33,190 --> 00:08:31,280
and uh also visiting the moon since

204
00:08:35,190 --> 00:08:33,200
that's our nearest neighbor

205
00:08:37,029 --> 00:08:35,200
in my vision can we do it sooner i think

206
00:08:39,110 --> 00:08:37,039
we can and hopefully with the progress

207
00:08:41,190 --> 00:08:39,120
we're making with the commercial launch

208
00:08:43,190 --> 00:08:41,200
vehicles and what nasa is doing for

209
00:08:44,870 --> 00:08:43,200
heavy lift and with the intent as long

210
00:08:46,230 --> 00:08:44,880
as you know we have the intent to make

211
00:08:48,470 --> 00:08:46,240
it on to uh

212
00:08:49,910 --> 00:08:48,480
to mars eventually uh you know we will

213
00:08:52,150 --> 00:08:49,920

get there as humans i don't think we'll

214

00:08:53,750 --> 00:08:52,160

ever stop exploring and we're all

215

00:08:55,590 --> 00:08:53,760

excited to be a part of the the great

216

00:08:59,590 --> 00:08:55,600

adventure really all starting right here

217

00:09:02,230 --> 00:09:01,110

well a lot of people who know a little

218

00:09:03,670 --> 00:09:02,240

bit about space would tell you the

219

00:09:09,670 --> 00:09:03,680

hurdles are not technological they're

220

00:09:12,389 --> 00:09:11,350

well certainly miles that's uh that's

221

00:09:14,230 --> 00:09:12,399

one way to look at it and there are a

222

00:09:15,910 --> 00:09:14,240

lot of challenges that we have ahead uh

223

00:09:17,269 --> 00:09:15,920

of course one of the great things as i

224

00:09:19,590 --> 00:09:17,279

mentioned about the space station is

225

00:09:21,430 --> 00:09:19,600

that it's international and and i think

226

00:09:23,509 --> 00:09:21,440

all of us support the notion of

227

00:09:25,910 --> 00:09:23,519

international cooperation for you know

228

00:09:30,470 --> 00:09:25,920

longer term space exploration not only

229

00:09:34,470 --> 00:09:32,230

all right pass it over to the pilot greg

230

00:09:36,630 --> 00:09:34,480

johnson box question for you this one

231

00:09:37,990 --> 00:09:36,640

comes from hanging with joe from san

232

00:09:39,990 --> 00:09:38,000

francisco

233

00:09:42,470 --> 00:09:40,000

uh at what point during the mission does

234

00:09:45,110 --> 00:09:42,480

it sink in that you are one of only the

235

00:09:47,190 --> 00:09:45,120

few one of the only few people on earth

236

00:09:52,150 --> 00:09:47,200

to have been able to see earth from

237

00:09:56,790 --> 00:09:54,389

well i think it's a great honor there

238

00:09:57,670 --> 00:09:56,800

have been quite a few people almost 500

239

00:09:59,430 --> 00:09:57,680

now

240

00:10:01,110 --> 00:09:59,440

and uh just like any other mode of

241

00:10:02,829 --> 00:10:01,120

transportation you need to turn your mic

242

00:10:06,150 --> 00:10:02,839

on box turn your mic

243

00:10:08,790 --> 00:10:06,160

on turn the mic on

244

00:10:10,630 --> 00:10:08,800

sorry about that as a laid out i guess i

245

00:10:13,990 --> 00:10:10,640

didn't get debris all the time

246

00:10:17,590 --> 00:10:14,790

yeah

247

00:10:19,750 --> 00:10:17,600

as a point of order order both taz and i

248

00:10:22,949 --> 00:10:19,760

were not uh

249

00:10:25,110 --> 00:10:22,959

we were not a wall we were actually just

250

00:10:26,630 --> 00:10:25,120

finishing up with the ams install but to

251
00:10:28,389 --> 00:10:26,640
answer your question

252
00:10:30,710 --> 00:10:28,399
um i think that

253
00:10:33,269 --> 00:10:30,720
any mode of transportation like cars and

254
00:10:34,949 --> 00:10:33,279
airplanes progress along and in space

255
00:10:37,269 --> 00:10:34,959
there's been almost 500 people that have

256
00:10:38,630 --> 00:10:37,279
looked at the earth from space

257
00:10:41,030 --> 00:10:38,640
and i think

258
00:10:42,230 --> 00:10:41,040
in a few decades there will be

259
00:10:44,230 --> 00:10:42,240
many many

260
00:10:46,310 --> 00:10:44,240
multitudes of more people that get to

261
00:10:48,949 --> 00:10:46,320
see the earth from space but i can tell

262
00:10:52,230 --> 00:10:48,959
you it's a great honor and i cherish

263
00:10:56,069 --> 00:10:54,150

well i will say here here to that i hope

264

00:10:59,030 --> 00:10:56,079

i'm among them send it over to commander

265

00:11:00,870 --> 00:10:59,040

kelly there this is the highest rated

266

00:11:03,750 --> 00:11:00,880

video question

267

00:11:05,190 --> 00:11:03,760

uh of all of the google moderator

268

00:11:06,949 --> 00:11:05,200

questions so we're going to roll the

269

00:11:08,870 --> 00:11:06,959

video this comes from ethan from san

270

00:11:10,870 --> 00:11:08,880

francisco all the google moderator

271

00:11:14,389 --> 00:11:10,880

participants voted this the most

272

00:11:17,110 --> 00:11:14,399

interesting question so here it comes

273

00:11:18,470 --> 00:11:17,120

i know commander kelly's wife

274

00:11:20,949 --> 00:11:18,480

representative

275

00:11:23,030 --> 00:11:20,959

giffords is has really worked hard on

276

00:11:25,509 --> 00:11:23,040

foreign policy and congress and

277

00:11:26,949 --> 00:11:25,519

led by example installing panels on her

278

00:11:28,550 --> 00:11:26,959

roof in tucson

279

00:11:31,430 --> 00:11:28,560

i was hoping to get the cruise thoughts

280

00:11:33,269 --> 00:11:31,440

not just on solar power but the power of

281

00:11:35,990 --> 00:11:33,279

space exploration to really challenge

282

00:11:38,949 --> 00:11:36,000

ourselves and develop new technologies

283

00:11:45,430 --> 00:11:38,959

that not only enable space exploration

284

00:11:49,990 --> 00:11:47,110

yeah great question so that's what you

285

00:11:53,030 --> 00:11:51,590

it's is one of the interesting things

286

00:11:55,350 --> 00:11:53,040

about when you do something that's

287

00:11:56,629 --> 00:11:55,360

really really hard like traveling in in

288

00:11:58,629 --> 00:11:56,639

space

289

00:12:00,870 --> 00:11:58,639

getting off the planet and into earth

290

00:12:03,110 --> 00:12:00,880

orbit and going to the moon are very

291

00:12:04,310 --> 00:12:03,120

difficult things to do and when you do

292

00:12:06,550 --> 00:12:04,320

something like that and you push

293

00:12:08,710 --> 00:12:06,560

technology forward you get a lot of a

294

00:12:10,550 --> 00:12:08,720

lot of benefits

295

00:12:11,949 --> 00:12:10,560

you know things that people

296

00:12:13,829 --> 00:12:11,959

currently use every day like

297

00:12:16,710 --> 00:12:13,839

telecommunications and their cell phones

298

00:12:20,069 --> 00:12:16,720

and computers had a lot to do with uh

299

00:12:21,990 --> 00:12:20,079

the the united states uh reaching to put

300

00:12:22,949 --> 00:12:22,000

men on the moon and then what we've been

301
00:12:25,030 --> 00:12:22,959
doing

302
00:12:27,269 --> 00:12:25,040
in space exploration for the last 40

303
00:12:29,910 --> 00:12:27,279
years so you know it's really a

304
00:12:31,750 --> 00:12:29,920
technology driver and it's it's really

305
00:12:33,750 --> 00:12:31,760
important for our country so

306
00:12:35,990 --> 00:12:33,760
obviously we're here and we're big

307
00:12:38,870 --> 00:12:36,000
promoters of space exploration but it's

308
00:12:41,190 --> 00:12:38,880
one thing that drives our economy

309
00:12:43,590 --> 00:12:41,200
and it's uh you know important for the

310
00:12:47,430 --> 00:12:43,600
advancement of science and technology

311
00:12:51,269 --> 00:12:49,350
all right this one's uh a couple of you

312
00:12:52,430 --> 00:12:51,279
can take this if you like uh this one

313
00:12:54,949 --> 00:12:52,440

comes from

314

00:12:56,629 --> 00:12:54,959

smith5se from michigan commander

315

00:12:58,389 --> 00:12:56,639

kellyanne cru he says how do you feel

316

00:13:00,550 --> 00:12:58,399

about using social media to share your

317

00:13:02,310 --> 00:13:00,560

personal story as an astronaut and

318

00:13:05,030 --> 00:13:02,320

inspire others has it been beneficial

319

00:13:07,910 --> 00:13:05,040

for you and we continue to use it for

320

00:13:08,710 --> 00:13:07,920

outreach upon wheel stop so the question

321

00:13:09,910 --> 00:13:08,720

you know

322

00:13:11,269 --> 00:13:09,920

the tweeting and all the social

323

00:13:16,629 --> 00:13:11,279

networking the way you connect with

324

00:13:20,629 --> 00:13:18,629

yeah miles i've certainly noticed the

325

00:13:23,190 --> 00:13:20,639

difference between my last mission two

326

00:13:25,750 --> 00:13:23,200

years ago and this mission with the

327

00:13:27,030 --> 00:13:25,760

social media including uh tweeting

328

00:13:30,310 --> 00:13:27,040

uh

329

00:13:32,470 --> 00:13:30,320

we were some of us like myself box and a

330

00:13:35,670 --> 00:13:32,480

few others were able to tweet right

331

00:13:38,550 --> 00:13:35,680

before the uh our launch and we shared

332

00:13:40,069 --> 00:13:38,560

do our our special meals that we had and

333

00:13:41,829 --> 00:13:40,079

what it was like to wake up on launch

334

00:13:43,910 --> 00:13:41,839

day and everything and people really

335

00:13:46,790 --> 00:13:43,920

enjoyed it and that's how we pay back to

336

00:13:48,949 --> 00:13:46,800

the people who pay for our salaries is

337

00:13:51,590 --> 00:13:48,959

to share this adventure with them you

338

00:13:53,030 --> 00:13:51,600

know another tweeter on board is ron

339

00:13:55,350 --> 00:13:53,040

garan i think he's gotten a lot of

340

00:13:56,790 --> 00:13:55,360

popularity from showing uh showing some

341

00:14:00,389 --> 00:13:56,800

of the things he's been able to see from

342

00:14:05,350 --> 00:14:03,189

yeah miles um i think those of us that

343

00:14:06,790 --> 00:14:05,360

uh you know have the privilege of of

344

00:14:08,389 --> 00:14:06,800

flying in space and seeing the earth

345

00:14:10,710 --> 00:14:08,399

from space you know we we understand

346

00:14:12,790 --> 00:14:10,720

that it's a responsibility to share that

347

00:14:15,030 --> 00:14:12,800

uh with everybody as best we can and

348

00:14:17,189 --> 00:14:15,040

some of the social media that we use you

349

00:14:19,030 --> 00:14:17,199

know twitter and we have websites of

350

00:14:21,350 --> 00:14:19,040

fragile oasis as a blog site that we're

351

00:14:22,949 --> 00:14:21,360

using is a way for us to have people

352

00:14:25,189 --> 00:14:22,959

follow along on the mission not just as

353

00:14:26,949 --> 00:14:25,199

spectators but almost as fellow crew

354

00:14:28,870 --> 00:14:26,959

members and to really participate in

355

00:14:30,470 --> 00:14:28,880

what we're doing and like i said we have

356

00:14:31,990 --> 00:14:30,480

a you know we we understand we have a

357

00:14:33,829 --> 00:14:32,000

big responsibility to share what we're

358

00:14:35,110 --> 00:14:33,839

doing with as many people as we can and

359

00:14:38,790 --> 00:14:35,120

this is one of the tools that we use to

360

00:14:43,269 --> 00:14:40,790

uh this can go to uh i'll tell you what

361

00:14:45,350 --> 00:14:43,279

let's go to uh send it over to drew i

362

00:14:46,870 --> 00:14:45,360

guess for this one

363

00:14:48,790 --> 00:14:46,880

this one comes from florida on youtube

364

00:14:51,269 --> 00:14:48,800

when you're in orbit you have to make a

365

00:14:58,870 --> 00:14:51,279

lot of maneuvers due to satellites space

366

00:15:02,629 --> 00:15:01,030

okay so miles thanks i guess that was a

367

00:15:05,670 --> 00:15:02,639

question do we have to make a lot of

368

00:15:08,629 --> 00:15:05,680

maneuvers and the answer is uh sometimes

369

00:15:10,629 --> 00:15:08,639

fortunately uh many of those items

370

00:15:12,310 --> 00:15:10,639

are tracked for us well all the items

371

00:15:13,430 --> 00:15:12,320

that we make maneuvers for our track for

372

00:15:15,590 --> 00:15:13,440

us and

373

00:15:17,590 --> 00:15:15,600

so we do we do that from time to time it

374

00:15:18,710 --> 00:15:17,600

would it's it's not as frequent as some

375

00:15:20,870 --> 00:15:18,720

might think

376

00:15:22,470 --> 00:15:20,880

obviously the bigger danger for us is

377

00:15:24,710 --> 00:15:22,480

items that are not tracked and that's

378

00:15:26,710 --> 00:15:24,720

especially true for uh for space walkers

379

00:15:28,949 --> 00:15:26,720

so it's something we think about but

380

00:15:30,629 --> 00:15:28,959

fortunately many of those

381

00:15:32,150 --> 00:15:30,639

issues are taken care of by the ground

382

00:15:35,670 --> 00:15:32,160

control teams that are watching out for

383

00:15:39,910 --> 00:15:37,350

all right send it over to box there greg

384

00:15:42,069 --> 00:15:39,920

johnson this one comes from dj admiral

385

00:15:44,310 --> 00:15:42,079

on youtube what kind of internet

386

00:15:46,870 --> 00:15:44,320

connection do you get up there is it

387

00:15:49,350 --> 00:15:46,880

fast any restrictions

388

00:15:54,150 --> 00:15:49,360

uh wink wink what's the ip range of

389

00:15:58,389 --> 00:15:55,590

uh

390

00:16:00,949 --> 00:15:58,399

good question dj um

391

00:16:03,470 --> 00:16:00,959

as shuttle guys we really don't uh

392

00:16:06,310 --> 00:16:03,480

partake in the internet we've got uh

393

00:16:09,030 --> 00:16:06,320

synchronizations with our emails uh it

394

00:16:11,269 --> 00:16:09,040

kind of gives us a pseudo e email uh or

395

00:16:12,790 --> 00:16:11,279

pseudo internet uh to communicate with

396

00:16:15,030 --> 00:16:12,800

our families and friends and our

397

00:16:16,629 --> 00:16:15,040

associates however i'm gonna pass this

398

00:16:18,629 --> 00:16:16,639

to ronnie because on the station i

399

00:16:21,590 --> 00:16:18,639

believe that they have uh a better

400

00:16:23,590 --> 00:16:21,600

internet than we do on the shuttle

401
00:16:25,430 --> 00:16:23,600
so this is uh something that's uh

402
00:16:26,550 --> 00:16:25,440
somewhat new as our capability to use

403
00:16:29,829 --> 00:16:26,560
the internet

404
00:16:31,430 --> 00:16:29,839
and um how it works is we could be at a

405
00:16:32,949 --> 00:16:31,440
laptop here on the international space

406
00:16:36,629 --> 00:16:32,959
station and

407
00:16:38,069 --> 00:16:36,639
basically control remotely a pc or a

408
00:16:41,110 --> 00:16:38,079
computer down on the ground that is

409
00:16:43,189 --> 00:16:41,120
connected to the internet so it's we're

410
00:16:45,030 --> 00:16:43,199
we're limited to when we have the the

411
00:16:46,389 --> 00:16:45,040
correct communications coverage to be

412
00:16:48,710 --> 00:16:46,399
able to to

413
00:16:51,030 --> 00:16:48,720

be on the internet and there is some lag

414

00:16:52,629 --> 00:16:51,040

in it so it does work slower than you're

415

00:16:55,509 --> 00:16:52,639

probably used to on the ground but it's

416

00:16:57,430 --> 00:16:55,519

a very useful tool and it really uh

417

00:17:01,350 --> 00:16:57,440

helps us to stay connected with what's

418

00:17:06,150 --> 00:17:02,710

all right let's send this one up to mike

419

00:17:09,189 --> 00:17:06,160

fink in the back there this comes from

420

00:17:10,230 --> 00:17:09,199

mandia blue in houston texas you know

421

00:17:12,150 --> 00:17:10,240

that place

422

00:17:14,549 --> 00:17:12,160

you get to take anything extra on the

423

00:17:19,669 --> 00:17:14,559

shuttle like pictures a teddy bear or

424

00:17:23,189 --> 00:17:21,350

well every um

425

00:17:26,390 --> 00:17:23,199

every mission

426

00:17:28,630 --> 00:17:26,400

uh takes a lot of uh uh i mean we try to

427

00:17:30,950 --> 00:17:28,640

carry as much scientific payload

428

00:17:32,549 --> 00:17:30,960

and uh useful things that we can like

429

00:17:34,789 --> 00:17:32,559

resupply for the international space

430

00:17:36,150 --> 00:17:34,799

station so we're very limited to take uh

431

00:17:37,830 --> 00:17:36,160

personal gear

432

00:17:40,470 --> 00:17:37,840

i did bring uh some pictures of my

433

00:17:43,350 --> 00:17:40,480

family i have three beautiful kids and a

434

00:17:45,510 --> 00:17:43,360

really nice wife she's also beautiful i

435

00:17:46,630 --> 00:17:45,520

brought a few small trinkets for the for

436

00:17:48,549 --> 00:17:46,640

the kids

437

00:17:50,710 --> 00:17:48,559

and that's pretty much all that we can

438

00:17:52,950 --> 00:17:50,720

bring on us on the space shuttle we're

439

00:17:55,669 --> 00:17:52,960

only gone from home for about uh two or

440

00:17:57,029 --> 00:17:55,679

three weeks so it's not a big deal and

441

00:18:00,710 --> 00:17:57,039

so we don't need to bring any special

442

00:18:04,710 --> 00:18:02,310

all right did you uh

443

00:18:07,110 --> 00:18:04,720

you have any of your uh any of your

444

00:18:11,190 --> 00:18:07,120

personal trinkets with you on you that

445

00:18:16,630 --> 00:18:13,830

i was just uh working along with uh drew

446

00:18:18,870 --> 00:18:16,640

here on our uh space walking suits our

447

00:18:21,430 --> 00:18:18,880

emu's that we're going outside with

448

00:18:23,510 --> 00:18:21,440

tomorrow so i didn't i don't have any of

449

00:18:25,830 --> 00:18:23,520

my equipment on me any of my rings or

450

00:18:31,669 --> 00:18:25,840

any of the other trinkets but i think we

451
00:18:35,430 --> 00:18:34,470
excellent excellent yeah this miles this

452
00:18:41,110 --> 00:18:35,440
is the

453
00:18:49,750 --> 00:18:42,630
wow

454
00:18:51,190 --> 00:18:49,760
glad uh i i i wish i had one myself hey

455
00:18:53,029 --> 00:18:51,200
uh this one uh

456
00:18:55,350 --> 00:18:53,039
final kind of this is one of my

457
00:18:57,590 --> 00:18:55,360
favorites from uh innocent nightmares

458
00:19:04,870 --> 00:18:57,600
garland texas do you ever actually say

459
00:19:08,150 --> 00:19:06,630
you know if we had an issue we would

460
00:19:10,390 --> 00:19:08,160
just normally call the ground with

461
00:19:13,750 --> 00:19:10,400
houston endeavor and then we would talk

462
00:19:15,430 --> 00:19:14,549
yeah

463
00:19:17,110 --> 00:19:15,440

all right

464

00:19:20,150 --> 00:19:17,120

that's about all the time we have i got

465

00:19:25,110 --> 00:19:20,160

to implore upon you

466

00:19:42,630 --> 00:19:26,950

yeah no problem i think we can do that

467

00:19:47,190 --> 00:19:45,430

that's certainly not uh as graceful as

468

00:19:49,350 --> 00:19:47,200

it could have been that's why we usually

469

00:19:50,950 --> 00:19:49,360

hesitate to do those but it's uh

470

00:19:52,870 --> 00:19:50,960

certainly fun to do

471

00:19:55,029 --> 00:19:52,880

wow

472

00:19:56,549 --> 00:19:55,039

i gotta say uh at least you're having

473

00:19:58,789 --> 00:19:56,559

some fun up there you're not going to

474

00:20:02,390 --> 00:19:58,799

the olympics with that keep keep the day

475

00:20:09,510 --> 00:20:02,400

jobs guys our night jobs on this mission

476

00:20:14,549 --> 00:20:11,190

yeah miles and i'll i'll send you one of

477

00:20:18,310 --> 00:20:16,950

i would like one thank you to all of you

478

00:20:20,070 --> 00:20:18,320

very much appreciate your time i know

479

00:20:23,029 --> 00:20:20,080

you got a busy mission ahead you got the

480

00:20:26,390 --> 00:20:23,039

spacewalk ahead and thanks to all of you

481

00:20:28,310 --> 00:20:26,400

for your time uh and uh to be a part of

482

00:20:29,110 --> 00:20:28,320

this and for watching us and sending us

483

00:20:31,190 --> 00:20:29,120

such

484

00:20:34,149 --> 00:20:31,200

terrific questions you can see portions

485

00:20:35,590 --> 00:20:34,159

of this interview on the pbs newshour

486

00:20:37,430 --> 00:20:35,600

and the entire interview on the

487

00:20:40,070 --> 00:20:37,440

newshour's youtube channel for everyone

488

00:20:42,870 --> 00:20:40,080

at google youtube and the pbs newshour

489

00:20:44,710 --> 00:20:42,880

and space shuttle endeavor and iss

490

00:20:47,510 --> 00:20:44,720

i'm miles o'brien