



1
00:00:06,389 --> 00:00:02,629
station this is houston are you ready

2
00:00:11,509 --> 00:00:09,669
houston station is ready for the event

3
00:00:12,470 --> 00:00:11,519
associated press this is mission control

4
00:00:14,789 --> 00:00:12,480
houston

5
00:00:17,269 --> 00:00:14,799
please call station for a voice check

6
00:00:21,349 --> 00:00:17,279
stay this is the associated press how do

7
00:00:25,910 --> 00:00:24,150
yes ap i hear you loud and clear

8
00:00:28,390 --> 00:00:25,920
well hello rick greetings from the

9
00:00:30,550 --> 00:00:28,400
kennedy space center uh seems you've had

10
00:00:32,310 --> 00:00:30,560
a bit of excitement up there this week

11
00:00:33,750 --> 00:00:32,320
with the cooling glue problem i was

12
00:00:35,190 --> 00:00:33,760
wondering if you could tell me what's

13
00:00:39,750 --> 00:00:35,200

the latest that you're hearing from the

14

00:00:43,510 --> 00:00:41,110

yeah well we're probably a little bit

15

00:00:45,190 --> 00:00:43,520

behind the loop because the folks are

16

00:00:47,029 --> 00:00:45,200

you know just gathering the uh down in

17

00:00:49,110 --> 00:00:47,039

houston but what we heard last night was

18

00:00:51,590 --> 00:00:49,120

that they were still troubleshooting

19

00:00:52,709 --> 00:00:51,600

the valve that is uh having problems and

20

00:00:54,709 --> 00:00:52,719

of course

21

00:00:56,709 --> 00:00:54,719

if that doesn't uh they've got a whole

22

00:00:58,709 --> 00:00:56,719

series of fall tree items that they have

23

00:01:00,150 --> 00:00:58,719

to work through and the worst case is

24

00:01:01,670 --> 00:01:00,160

that if they can't get that working

25

00:01:04,310 --> 00:01:01,680

we're going to have to go out eva and

26
00:01:07,190 --> 00:01:04,320
replace the pump module

27
00:01:09,429 --> 00:01:07,200
well tell me um if you have to go out on

28
00:01:11,429 --> 00:01:09,439
a spacewalker two or three would you

29
00:01:13,670 --> 00:01:11,439
consider that sort of an unexpected

30
00:01:17,429 --> 00:01:13,680
christmas present how excited would you

31
00:01:20,630 --> 00:01:18,950
yeah you know anytime you have something

32
00:01:22,230 --> 00:01:20,640
like this it's good news bad news of

33
00:01:23,749 --> 00:01:22,240
course the bad news is the station's

34
00:01:26,230 --> 00:01:23,759
having problems and we have to go out

35
00:01:28,149 --> 00:01:26,240
and do a repair the good news is you

36
00:01:30,469 --> 00:01:28,159
know as we have the spare parts we have

37
00:01:32,230 --> 00:01:30,479
the training we have the skills and of

38
00:01:33,990 --> 00:01:32,240

course going out and doing a space walk

39

00:01:36,069 --> 00:01:34,000

is always very exciting yet very

40

00:01:37,910 --> 00:01:36,079

challenging

41

00:01:41,030 --> 00:01:37,920

well well this job in particular how

42

00:01:42,630 --> 00:01:41,040

difficult would it be for you and and

43

00:01:44,310 --> 00:01:42,640

would you have any concerns regarding

44

00:01:49,670 --> 00:01:44,320

possible helmet sledding or is that

45

00:01:55,030 --> 00:01:52,310

well in overall this is one of the many

46

00:01:58,069 --> 00:01:55,040

evas that we practice contingency evas

47

00:01:59,830 --> 00:01:58,079

in terms of replacing a large module so

48

00:02:00,950 --> 00:01:59,840

obviously it's challenging but i would

49

00:02:02,870 --> 00:02:00,960

call it you know it's a middle of the

50

00:02:05,830 --> 00:02:02,880

road type of

51
00:02:07,830 --> 00:02:05,840
a swap of a large oru

52
00:02:09,510 --> 00:02:07,840
in terms of the helmet flooding that's

53
00:02:11,670 --> 00:02:09,520
that issue as far as i know is still

54
00:02:13,670 --> 00:02:11,680
being worked but we have several safety

55
00:02:15,670 --> 00:02:13,680
measures in effect that will protect us

56
00:02:17,830 --> 00:02:15,680
if we have any problems

57
00:02:19,990 --> 00:02:17,840
could you could you elicit a two or like

58
00:02:21,910 --> 00:02:20,000
one or two i mean what would you do

59
00:02:28,070 --> 00:02:21,920
would this be testing when you put the

60
00:02:31,910 --> 00:02:29,589
well of course before we go out the

61
00:02:33,430 --> 00:02:31,920
hatch there's a long eva prep where we

62
00:02:34,869 --> 00:02:33,440
are in the suits for a period of time

63
00:02:36,869 --> 00:02:34,879

and we're testing the suits at very

64

00:02:37,990 --> 00:02:36,879

oppression for pressure checks and

65

00:02:39,190 --> 00:02:38,000

making sure everything's working

66

00:02:40,949 --> 00:02:39,200

properly so

67

00:02:42,790 --> 00:02:40,959

uh that hopefully will give us any

68

00:02:44,309 --> 00:02:42,800

problem or hopefully if there's any

69

00:02:46,070 --> 00:02:44,319

problems there will be uh they will

70

00:02:47,509 --> 00:02:46,080

appear at that point but we don't expect

71

00:02:50,630 --> 00:02:47,519

any problems

72

00:02:52,309 --> 00:02:50,640

and uh if anything happens during the

73

00:02:53,830 --> 00:02:52,319

spacewalk of course so one of the

74

00:02:56,150 --> 00:02:53,840

options is to quickly return to the

75

00:02:58,550 --> 00:02:56,160

airlock just like what happened on the

76

00:03:01,030 --> 00:02:58,560

previous eva

77

00:03:02,949 --> 00:03:01,040

well now i'm wondering um how life

78

00:03:04,630 --> 00:03:02,959

aboard the space station has changed for

79

00:03:07,190 --> 00:03:04,640

you in the last day or two because of

80

00:03:09,910 --> 00:03:07,200

the power down of equipment um give me a

81

00:03:11,430 --> 00:03:09,920

sense of um what it's like up there now

82

00:03:13,350 --> 00:03:11,440

whether it's

83

00:03:15,589 --> 00:03:13,360

a little slower life for you is it

84

00:03:16,630 --> 00:03:15,599

quieter since so much equipment is shut

85

00:03:18,949 --> 00:03:16,640

down

86

00:03:23,750 --> 00:03:18,959

just give me a sense of how the changes

87

00:03:27,509 --> 00:03:25,670

okay yeah it's really not that much

88

00:03:29,110 --> 00:03:27,519

different

89

00:03:31,270 --> 00:03:29,120

basically some of the science

90

00:03:33,190 --> 00:03:31,280

experiments have been shut down just to

91

00:03:34,070 --> 00:03:33,200

be due to the lack of cooling as you

92

00:03:36,309 --> 00:03:34,080

know

93

00:03:38,630 --> 00:03:36,319

and really it's not any quieter in here

94

00:03:40,309 --> 00:03:38,640

we still have lights we still have uh

95

00:03:42,470 --> 00:03:40,319

the toilet working we still have food to

96

00:03:44,149 --> 00:03:42,480

eat and and we're still very comfortable

97

00:03:45,990 --> 00:03:44,159

up here and so the biggest

98

00:03:47,030 --> 00:03:46,000

problem is that we're just not taking

99

00:03:48,470 --> 00:03:47,040

the time

100

00:03:50,070 --> 00:03:48,480

during our schedule to do as much

101
00:03:52,869 --> 00:03:50,080
science as we normally would we had to

102
00:03:54,869 --> 00:03:52,879
cancel some events due to the lack of

103
00:03:57,190 --> 00:03:54,879
the experiments being able to be turned

104
00:03:58,789 --> 00:03:57,200
on because due to lack of cooling so the

105
00:04:00,390 --> 00:03:58,799
biggest impact to us was really just

106
00:04:02,550 --> 00:04:00,400
some of the experiments and the

107
00:04:04,470 --> 00:04:02,560
procedures that we had planned to work

108
00:04:06,710 --> 00:04:04,480
were cancelled or postponed until we get

109
00:04:08,229 --> 00:04:06,720
this problem resolved

110
00:04:10,229 --> 00:04:08,239
so it sounds like you might have a bit

111
00:04:12,070 --> 00:04:10,239
of a little more breathing room up there

112
00:04:15,670 --> 00:04:12,080
to do other things how are you spending

113
00:04:17,270 --> 00:04:15,680

that extra time

114

00:04:21,189 --> 00:04:17,280

yeah i have a little extra free time

115

00:04:23,749 --> 00:04:21,199

yesterday a little uh today but uh

116

00:04:25,909 --> 00:04:23,759

really just getting caught up on various

117

00:04:28,150 --> 00:04:25,919

things reviewing procedures that we may

118

00:04:30,230 --> 00:04:28,160

have to execute tomorrow for various

119

00:04:32,629 --> 00:04:30,240

experiments we did do some medical

120

00:04:34,150 --> 00:04:32,639

research today and so just basically

121

00:04:35,590 --> 00:04:34,160

trying to stay ahead of the vehicle when

122

00:04:37,189 --> 00:04:35,600

i get this free time i just basically

123

00:04:39,430 --> 00:04:37,199

look ahead and see what's coming up in

124

00:04:41,670 --> 00:04:39,440

the in the next few days

125

00:04:43,110 --> 00:04:41,680

well you know christmas is coming and

126

00:04:45,510 --> 00:04:43,120

i'm wondering if you're expecting any

127

00:04:49,830 --> 00:04:45,520

presents aboard the cygnus when it uh

128

00:04:53,430 --> 00:04:51,830

well i was i'm not expecting any

129

00:04:55,189 --> 00:04:53,440

presents but

130

00:04:57,430 --> 00:04:55,199

you never know of course

131

00:04:59,189 --> 00:04:57,440

we do have some bonus food on the cygnus

132

00:05:00,390 --> 00:04:59,199

and we have a few other packages up

133

00:05:01,830 --> 00:05:00,400

there so it'll be great to get those

134

00:05:04,469 --> 00:05:01,840

things on board and have them for the

135

00:05:05,990 --> 00:05:04,479

rest of the duration of my expedition

136

00:05:07,990 --> 00:05:06,000

well what about your own christmas

137

00:05:10,070 --> 00:05:08,000

shopping did you finish that up before

138

00:05:12,870 --> 00:05:10,080

you blasted into orbit or are you going

139

00:05:17,510 --> 00:05:12,880

to be making some internet um orders and

140

00:05:21,110 --> 00:05:19,350

no i did i took care of a few things

141

00:05:23,830 --> 00:05:21,120

before i left i bought a series of

142

00:05:25,350 --> 00:05:23,840

presents for my wife but don't tell her

143

00:05:27,189 --> 00:05:25,360

and they're they're cleverly hidden in

144

00:05:29,990 --> 00:05:27,199

the house

145

00:05:31,350 --> 00:05:30,000

well i promise not to say anything um

146

00:05:32,950 --> 00:05:31,360

what are you going to do to jazz up the

147

00:05:35,189 --> 00:05:32,960

space station for christmas are you

148

00:05:37,749 --> 00:05:35,199

going to decorate is there a little tree

149

00:05:39,029 --> 00:05:37,759

you plan on caroling with your crewmates

150

00:05:40,870 --> 00:05:39,039

special meal

151

00:05:42,550 --> 00:05:40,880

give me a little details of what

152

00:05:45,590 --> 00:05:42,560

christmas is going to be like for you on

153

00:05:49,990 --> 00:05:47,510

well we'll see i'm pretty sure we have a

154

00:05:51,510 --> 00:05:50,000

bag of christmas decorations up here so

155

00:05:53,270 --> 00:05:51,520

we'll have to pull those out and

156

00:05:55,029 --> 00:05:53,280

decorate maybe one of the modules a

157

00:05:57,029 --> 00:05:55,039

little bit and i'm sure we'll have some

158

00:05:58,790 --> 00:05:57,039

special food you know we all have bonus

159

00:06:01,029 --> 00:05:58,800

containers with a few special items in

160

00:06:03,909 --> 00:06:01,039

them so we'll pull out some of the

161

00:06:05,510 --> 00:06:03,919

christmas uh related foods if we will

162

00:06:06,870 --> 00:06:05,520

and i'm sure we'll have a great old time

163

00:06:08,790 --> 00:06:06,880

the six of us will get together have

164

00:06:11,029 --> 00:06:08,800

some nice meals and it will be great of

165

00:06:12,870 --> 00:06:11,039

course phone calls and video conference

166

00:06:13,830 --> 00:06:12,880

with the family will will make it uh

167

00:06:15,749 --> 00:06:13,840

great

168

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

well it seems to me that it might be a

169

00:06:20,230 --> 00:06:17,520

bit of a hardship to be away from your

170

00:06:22,390 --> 00:06:20,240

family over christmas and new year's

171

00:06:23,909 --> 00:06:22,400

but on the other hand

172

00:06:25,590 --> 00:06:23,919

some might think that there's no better

173

00:06:27,749 --> 00:06:25,600

place to spend christmas eve to

174

00:06:30,309 --> 00:06:27,759

experience the true spirit of the

175

00:06:33,590 --> 00:06:30,319

holiday than space what's your take on

176

00:06:36,710 --> 00:06:35,110

well well of course you know being away

177

00:06:39,189 --> 00:06:36,720

from your friends and family during the

178

00:06:41,590 --> 00:06:39,199

holidays is not optimal but if you have

179

00:06:43,590 --> 00:06:41,600

to be away from your family on christmas

180

00:06:45,670 --> 00:06:43,600

and this is sure not a bad place to be

181

00:06:47,270 --> 00:06:45,680

floating around in a low earth orbit it

182

00:06:50,230 --> 00:06:47,280

sure is

183

00:06:53,270 --> 00:06:50,240

a rare opportunity and i'm i

184

00:06:56,070 --> 00:06:53,280

and i enjoy it greatly um

185

00:06:57,430 --> 00:06:56,080

i guess it's a matter of uh how if we

186

00:06:59,270 --> 00:06:57,440

get some free time which i'm sure we

187

00:07:01,350 --> 00:06:59,280

will to think about the fact that it is

188

00:07:03,270 --> 00:07:01,360

christmas and we spent some time in the

189

00:07:05,029 --> 00:07:03,280

cupola maybe looking back at the earth i

190

00:07:07,430 --> 00:07:05,039

think we'll have some time to reflect on

191

00:07:09,430 --> 00:07:07,440

that and enjoy ourselves

192

00:07:11,270 --> 00:07:09,440

well in the time you've been up there so

193

00:07:14,150 --> 00:07:11,280

far what have been some of your more

194

00:07:16,150 --> 00:07:14,160

enjoyable moments or you know just just

195

00:07:18,390 --> 00:07:16,160

just chat a little bit about the whole

196

00:07:20,070 --> 00:07:18,400

experience of really living in space not

197

00:07:23,670 --> 00:07:20,080

just going up to visit but making it

198

00:07:27,270 --> 00:07:25,430

yeah it's great it's quite different

199

00:07:28,950 --> 00:07:27,280

than a shuttle mission all my previous

200

00:07:30,870 --> 00:07:28,960

experiences you know on shuttle mission

201
00:07:32,950 --> 00:07:30,880
and you're constantly working there's

202
00:07:35,110 --> 00:07:32,960
very little time to look out the window

203
00:07:37,909 --> 00:07:35,120
for any length of time so of course i've

204
00:07:39,510 --> 00:07:37,919
really enjoyed the earth observations

205
00:07:41,589 --> 00:07:39,520
targets that they send up and trying to

206
00:07:43,430 --> 00:07:41,599
find these various small things that to

207
00:07:45,270 --> 00:07:43,440
photograph and just looking out the

208
00:07:47,430 --> 00:07:45,280
window during your free time of course

209
00:07:49,749 --> 00:07:47,440
is is quite enjoyable

210
00:07:52,629 --> 00:07:49,759
uh but i i definitely can feel my body

211
00:07:53,990 --> 00:07:52,639
adapting in terms of after only two or

212
00:07:55,589 --> 00:07:54,000
three weeks on a space shuttle mission

213
00:07:58,070 --> 00:07:55,599

you don't fully adapt to weightlessness

214

00:07:59,990 --> 00:07:58,080

i believe it takes a few more weeks so

215

00:08:01,749 --> 00:08:00,000

that's been interesting also to feel how

216

00:08:03,350 --> 00:08:01,759

i i feel so much

217

00:08:04,950 --> 00:08:03,360

more adapted and comfortable in this

218

00:08:06,790 --> 00:08:04,960

environment

219

00:08:08,150 --> 00:08:06,800

what has been the hardest transition do

220

00:08:13,589 --> 00:08:08,160

you think of

221

00:08:16,550 --> 00:08:15,029

well i don't know there's really

222

00:08:18,150 --> 00:08:16,560

obviously the hardest transition is the

223

00:08:19,830 --> 00:08:18,160

first few days when your body's going

224

00:08:21,350 --> 00:08:19,840

through a lot of changes uh going from

225

00:08:22,469 --> 00:08:21,360

the 1g environment to the weightless

226

00:08:24,629 --> 00:08:22,479

environment

227

00:08:25,749 --> 00:08:24,639

uh you're you're losing a lot of fluid

228

00:08:27,510 --> 00:08:25,759

you're

229

00:08:29,189 --> 00:08:27,520

your vestibular system is still

230

00:08:32,310 --> 00:08:29,199

adjusting so that's the most difficult

231

00:08:33,670 --> 00:08:32,320

part but that doesn't last very long

232

00:08:35,670 --> 00:08:33,680

well well tell me are you going to be

233

00:08:40,230 --> 00:08:35,680

keeping a sharp lookout for santa and

234

00:08:43,990 --> 00:08:42,070

well we're always on the lookout for uh

235

00:08:46,070 --> 00:08:44,000

santa up here we got a great vantage

236

00:08:48,710 --> 00:08:46,080

point so yes we'll keep an eye out and

237

00:08:49,910 --> 00:08:48,720

we'll report any sightings well will you

238

00:08:51,829 --> 00:08:49,920

do that because there are a lot of

239

00:08:53,590 --> 00:08:51,839

children on this planet including my son

240

00:08:55,430 --> 00:08:53,600

who are going to be keeping keeping an

241

00:08:56,949 --> 00:08:55,440

eye on that so listen merry christmas

242

00:09:00,470 --> 00:08:56,959

happy new year and good luck through the

243

00:09:09,110 --> 00:09:01,829

thank you very much it was great talking

244

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

station this is houston acr that

245

00:09:15,509 --> 00:09:13,279

concludes the associated press portion

246

00:09:18,790 --> 00:09:15,519

of the event please stand by for a voice

247

00:09:20,949 --> 00:09:18,800

check from space.com

248

00:09:24,150 --> 00:09:20,959

station this is uh space.com how do you

249

00:09:28,389 --> 00:09:26,150

space.com station i hear you loud and

250

00:09:30,790 --> 00:09:28,399

clear how are you today um doing great

251
00:09:31,910 --> 00:09:30,800
rick thank you so much uh uh for having

252
00:09:33,269 --> 00:09:31,920
the time to talk with us from the

253
00:09:35,509 --> 00:09:33,279
station today

254
00:09:37,110 --> 00:09:35,519
um this is uh tarek malik at space.com

255
00:09:38,630 --> 00:09:37,120
and to start out with uh you know we

256
00:09:40,550 --> 00:09:38,640
heard about the cooling problem that

257
00:09:42,070 --> 00:09:40,560
you're working on on the station there

258
00:09:44,150 --> 00:09:42,080
and was hoping to find out what you've

259
00:09:45,430 --> 00:09:44,160
heard in the latest for mission control

260
00:09:47,269 --> 00:09:45,440
and what kind of systems you've had to

261
00:09:52,150 --> 00:09:47,279
power down seems like you have a

262
00:09:55,430 --> 00:09:53,670
oh yeah the lights are still on on

263
00:09:57,110 --> 00:09:55,440

station you know it's still it's uh the

264

00:09:59,509 --> 00:09:57,120

biggest impact as you probably heard was

265

00:10:01,430 --> 00:09:59,519

to the payloads and to the experiments

266

00:10:03,350 --> 00:10:01,440

uh due to the external loop having a

267

00:10:05,269 --> 00:10:03,360

problem we the internal loop wasn't

268

00:10:07,110 --> 00:10:05,279

getting cooling so we had to power down

269

00:10:08,389 --> 00:10:07,120

a lot of the systems inside space

270

00:10:10,550 --> 00:10:08,399

station some of the modules some of the

271

00:10:12,870 --> 00:10:10,560

forward modules but most of those

272

00:10:15,269 --> 00:10:12,880

were uh science experiments and payload

273

00:10:17,829 --> 00:10:15,279

racks and of course a few items that for

274

00:10:19,590 --> 00:10:17,839

redundancy for various systems but

275

00:10:21,110 --> 00:10:19,600

overall life up here it really hasn't

276

00:10:22,710 --> 00:10:21,120

changed that much

277

00:10:24,389 --> 00:10:22,720

if anything it's actually gotten a

278

00:10:26,150 --> 00:10:24,399

little slower for us just through the

279

00:10:28,150 --> 00:10:26,160

the fact that some of the science

280

00:10:30,829 --> 00:10:28,160

experiments and payloads that we were

281

00:10:33,190 --> 00:10:30,839

scheduled to work on we had to postpone

282

00:10:34,630 --> 00:10:33,200

those one of our readers michael clark

283

00:10:36,389 --> 00:10:34,640

had a question that was the same one

284

00:10:38,470 --> 00:10:36,399

that i had for you and he just wanted to

285

00:10:40,150 --> 00:10:38,480

know you know how

286

00:10:41,829 --> 00:10:40,160

how concerned you worry about it is it

287

00:10:47,030 --> 00:10:41,839

worrying at all to have this kind of a

288

00:10:50,470 --> 00:10:48,870

well it's a serious problem obviously

289

00:10:51,910 --> 00:10:50,480

it's something we have to fix uh it's

290

00:10:53,590 --> 00:10:51,920

not something i'm worried about though

291

00:10:55,269 --> 00:10:53,600

we got some great folks on the ground

292

00:10:56,790 --> 00:10:55,279

and i and i wouldn't be surprised if

293

00:10:58,550 --> 00:10:56,800

they could figure out a way to get this

294

00:11:00,630 --> 00:10:58,560

external loop back up and working in the

295

00:11:02,870 --> 00:11:00,640

next couple of days and if they don't

296

00:11:05,030 --> 00:11:02,880

then the possibility exists that we'll

297

00:11:08,069 --> 00:11:05,040

have to go out and do a spacewalk to

298

00:11:09,430 --> 00:11:08,079

replace the uh the pump module and put

299

00:11:11,509 --> 00:11:09,440

in the new one and of course as you know

300

00:11:13,509 --> 00:11:11,519

we have many spare parts on board for

301
00:11:14,470 --> 00:11:13,519
inside and outside the space station and

302
00:11:16,389 --> 00:11:14,480
we train

303
00:11:19,030 --> 00:11:16,399
for these situations over and over again

304
00:11:21,430 --> 00:11:19,040
so all the procedures and everything are

305
00:11:22,870 --> 00:11:21,440
in place to take care of this

306
00:11:25,990 --> 00:11:22,880
yeah if you did have to go out on that

307
00:11:28,470 --> 00:11:26,000
spacewalk to uh to replace the the pump

308
00:11:30,630 --> 00:11:28,480
module uh how challenging of a task

309
00:11:31,829 --> 00:11:30,640
would that be and and uh i guess how

310
00:11:33,750 --> 00:11:31,839
comfortable would you have to be with

311
00:11:39,190 --> 00:11:33,760
the the spacesuits seeing that there was

312
00:11:43,670 --> 00:11:41,110
yeah any spacewalk is challenging

313
00:11:46,069 --> 00:11:43,680

obviously and there's risk involved in

314

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

this particular uh

315

00:11:50,069 --> 00:11:48,240

pump module rnr we've practiced it many

316

00:11:52,069 --> 00:11:50,079

times in the pool

317

00:11:53,910 --> 00:11:52,079

i did an ammonia tank change out three

318

00:11:56,470 --> 00:11:53,920

years ago on orbit during one of my

319

00:11:58,230 --> 00:11:56,480

shuttle missions this is a very similar

320

00:11:59,910 --> 00:11:58,240

a large box a few bolts you know the

321

00:12:01,990 --> 00:11:59,920

most the biggest challenge on this

322

00:12:04,230 --> 00:12:02,000

spacewalk in my opinion is the large

323

00:12:06,069 --> 00:12:04,240

fluid connectors that are connected to

324

00:12:07,670 --> 00:12:06,079

the pump module but of course we have a

325

00:12:10,310 --> 00:12:07,680

lot of tools if we have problems with

326

00:12:11,829 --> 00:12:10,320

those to fix that as far as the suits go

327

00:12:13,030 --> 00:12:11,839

you know we have been working that issue

328

00:12:14,710 --> 00:12:13,040

for quite a while now we're going to

329

00:12:16,629 --> 00:12:14,720

take the two best suits that we have if

330

00:12:18,230 --> 00:12:16,639

we have to do the space walk we have

331

00:12:19,910 --> 00:12:18,240

procedures in place that if we do have

332

00:12:22,949 --> 00:12:19,920

problems we'll get back to the airlock

333

00:12:24,150 --> 00:12:22,959

asap and so i feel very comfortable

334

00:12:25,750 --> 00:12:24,160

doing it once the ground gets

335

00:12:29,030 --> 00:12:25,760

comfortable with it we have a lot of

336

00:12:29,910 --> 00:12:29,040

faith in their decisions

337

00:12:32,710 --> 00:12:29,920

thanks

338

00:12:34,470 --> 00:12:32,720

before the uh the cooling uh system uh

339

00:12:35,670 --> 00:12:34,480

problem happened i know that you were

340

00:12:38,150 --> 00:12:35,680

looking forward to the arrival of the

341

00:12:40,389 --> 00:12:38,160

cygnus cargo ship next week uh and i'm

342

00:12:41,990 --> 00:12:40,399

wondering if any special requests

343

00:12:43,670 --> 00:12:42,000

from you and the crew on to the ground

344

00:12:46,870 --> 00:12:43,680

maybe holiday treats or presents or

345

00:12:50,389 --> 00:12:48,710

well you know we do get a crew care

346

00:12:52,710 --> 00:12:50,399

package i have a crew care package on

347

00:12:54,550 --> 00:12:52,720

there from my family i do have some

348

00:12:55,990 --> 00:12:54,560

bonus food up there and some additional

349

00:12:57,350 --> 00:12:56,000

clothes to get me through the next five

350

00:12:59,670 --> 00:12:57,360

or six months

351

00:13:01,110 --> 00:12:59,680

uh and there was a some talk about some

352

00:13:03,110 --> 00:13:01,120

fresh fruit so we look forward to

353

00:13:05,190 --> 00:13:03,120

anytime we get fresh fruit up here or

354

00:13:07,750 --> 00:13:05,200

vegetables it's a it's a great treat so

355

00:13:09,829 --> 00:13:07,760

we look forward to that

356

00:13:11,030 --> 00:13:09,839

and you know speaking of of christmas uh

357

00:13:13,670 --> 00:13:11,040

one of our readers wanted to know how

358

00:13:16,790 --> 00:13:13,680

you do celebrate the holidays in space

359

00:13:18,790 --> 00:13:16,800

uh being away from friends and family uh

360

00:13:20,069 --> 00:13:18,800

like the six of you are

361

00:13:22,470 --> 00:13:20,079

you know can you give us an idea of what

362

00:13:26,470 --> 00:13:22,480

christmas in space is like any dinners

363

00:13:29,750 --> 00:13:27,990

yeah sure first of all we have great

364

00:13:31,990 --> 00:13:29,760

connectivity with our families back home

365

00:13:34,470 --> 00:13:32,000

you know we have the we have an iphone

366

00:13:36,550 --> 00:13:34,480

we have the ground sets up video

367

00:13:38,069 --> 00:13:36,560

conferencing with our families on the

368

00:13:39,829 --> 00:13:38,079

holidays so it's great you get to see

369

00:13:41,670 --> 00:13:39,839

them you get to participate in the

370

00:13:43,269 --> 00:13:41,680

events at home a little bit

371

00:13:44,949 --> 00:13:43,279

but up here you know we do have some

372

00:13:46,230 --> 00:13:44,959

christmas decorations i think buried

373

00:13:47,990 --> 00:13:46,240

somewhere we'll probably try to pull

374

00:13:49,990 --> 00:13:48,000

those out and live it up the place a

375

00:13:51,110 --> 00:13:50,000

little bit and of course all six of us

376

00:13:52,470 --> 00:13:51,120

will get together and we'll have a

377

00:13:54,870 --> 00:13:52,480

special meal everybody will pull out

378

00:13:56,710 --> 00:13:54,880

whatever special foods we have that are

379

00:13:58,710 --> 00:13:56,720

appropriate for the holidays and we'll

380

00:14:00,710 --> 00:13:58,720

just have you know spend time together

381

00:14:03,189 --> 00:14:00,720

as a crew as friends and enjoying good

382

00:14:04,550 --> 00:14:03,199

food and good company

383

00:14:07,590 --> 00:14:04,560

now of course folks down here are going

384

00:14:09,350 --> 00:14:07,600

to be tracking santa around the world on

385

00:14:11,269 --> 00:14:09,360

on christmas i'm wondering if uh if you

386

00:14:12,710 --> 00:14:11,279

think he'll pay a visit to the station

387

00:14:15,590 --> 00:14:12,720

if you've made arrangements for him to

388

00:14:16,550 --> 00:14:15,600

pay a visit to your loved ones at home

389

00:14:19,430 --> 00:14:16,560

you know if you're going to keep an eye

390

00:14:22,470 --> 00:14:20,790

well of course we're always keeping an

391

00:14:23,670 --> 00:14:22,480

eye out for santa when we're out there

392

00:14:25,509 --> 00:14:23,680

hanging out in the cupola we're always

393

00:14:27,189 --> 00:14:25,519

looking for things like that

394

00:14:28,629 --> 00:14:27,199

i don't know if he can get up this high

395

00:14:30,230 --> 00:14:28,639

in order to visit us but we'll

396

00:14:31,189 --> 00:14:30,240

definitely keep an eye out and we'll

397

00:14:32,870 --> 00:14:31,199

report

398

00:14:35,590 --> 00:14:32,880

any sightings back to mission control

399

00:14:40,150 --> 00:14:37,910

well rick i know that uh you've flown

400

00:14:41,670 --> 00:14:40,160

several times before on shuttle missions

401
00:14:44,069 --> 00:14:41,680
but uh you know you've been up there for

402
00:14:46,550 --> 00:14:44,079
weeks at a time now uh after your launch

403
00:14:48,550 --> 00:14:46,560
in november and i'm wondering what the

404
00:14:49,430 --> 00:14:48,560
the biggest surprise has been for you so

405
00:14:51,509 --> 00:14:49,440
far

406
00:14:55,430 --> 00:14:51,519
uh as you kind of begin this this long

407
00:14:59,030 --> 00:14:57,189
uh you know since i've been here so many

408
00:15:01,509 --> 00:14:59,040
times before there weren't there wasn't

409
00:15:03,189 --> 00:15:01,519
hasn't been any real surprises yet

410
00:15:04,790 --> 00:15:03,199
um

411
00:15:05,990 --> 00:15:04,800
you know adapting to the zero-g

412
00:15:07,590 --> 00:15:06,000
environment

413
00:15:09,189 --> 00:15:07,600

living here on board space station i'm

414

00:15:11,030 --> 00:15:09,199

so familiar with the modules there's

415

00:15:12,629 --> 00:15:11,040

really no surprises it's great to have

416

00:15:14,470 --> 00:15:12,639

my own little place to sleep even if

417

00:15:15,590 --> 00:15:14,480

it's uh you know a very small closet if

418

00:15:17,269 --> 00:15:15,600

you will but it's great to have some

419

00:15:19,430 --> 00:15:17,279

personal space to hang your things

420

00:15:21,430 --> 00:15:19,440

that's definitely much more comfortable

421

00:15:23,350 --> 00:15:21,440

but no real surprises of course you know

422

00:15:25,670 --> 00:15:23,360

i'm only about five or six weeks into it

423

00:15:27,829 --> 00:15:25,680

and i've got uh quite a few more months

424

00:15:29,910 --> 00:15:27,839

ago so we'll see uh

425

00:15:31,749 --> 00:15:29,920

how it goes over the next

426

00:15:33,350 --> 00:15:31,759

five months

427

00:15:34,710 --> 00:15:33,360

is there any one thing aside from

428

00:15:36,470 --> 00:15:34,720

friends and family that you're missing

429

00:15:41,269 --> 00:15:36,480

the most usually when i go on a long

430

00:15:44,710 --> 00:15:43,670

yeah no matter how hard you think about

431

00:15:46,069 --> 00:15:44,720

what you're going to need up here

432

00:15:48,790 --> 00:15:46,079

there's always one thing you wish you

433

00:15:50,629 --> 00:15:48,800

had of course but uh we're pretty well

434

00:15:52,310 --> 00:15:50,639

stocked up here and i really don't want

435

00:15:54,069 --> 00:15:52,320

for much we have great food we have a

436

00:15:55,110 --> 00:15:54,079

great variety of food but of course

437

00:15:56,949 --> 00:15:55,120

probably the biggest thing i miss

438

00:15:58,870 --> 00:15:56,959

besides my family is some of my favorite

439

00:16:01,269 --> 00:15:58,880

foods

440

00:16:02,550 --> 00:16:01,279

well actually that that does tell us

441

00:16:04,069 --> 00:16:02,560

right into a question from one of our

442

00:16:05,590 --> 00:16:04,079

readers heather dick she wants to know

443

00:16:07,350 --> 00:16:05,600

what is your favorite space meal and

444

00:16:12,230 --> 00:16:07,360

what is that favorite food that you're

445

00:16:15,590 --> 00:16:13,910

let's see my favorite space meal yeah

446

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

that's kind of interesting because you

447

00:16:18,710 --> 00:16:16,880

know on a shuttle mission you're only up

448

00:16:20,629 --> 00:16:18,720

here for two weeks and you almost never

449

00:16:22,389 --> 00:16:20,639

eat the same thing twice up here i'm

450

00:16:23,910 --> 00:16:22,399

starting the same thing a third and a

451
00:16:26,230 --> 00:16:23,920
fourth time now just you know because

452
00:16:27,990 --> 00:16:26,240
the way the rotation is i think my

453
00:16:30,069 --> 00:16:28,000
favorite things turning out to be the uh

454
00:16:32,310 --> 00:16:30,079
the steak it's actually a pretty tasty

455
00:16:34,150 --> 00:16:32,320
steak uh an irradiated comes out of an

456
00:16:36,310 --> 00:16:34,160
mre packet and it's actually pretty

457
00:16:38,069 --> 00:16:36,320
tasty and i guess the thing i'm missing

458
00:16:40,389 --> 00:16:38,079
the most back on earth

459
00:16:43,269 --> 00:16:40,399
oh probably like pastas and pizza and

460
00:16:47,590 --> 00:16:45,110
now you mentioned earlier that you you

461
00:16:49,990 --> 00:16:47,600
had a little bit of free time extra from

462
00:16:51,350 --> 00:16:50,000
the the cooling system issues i'm

463
00:16:53,269 --> 00:16:51,360

wondering how you're spending that free

464

00:16:55,749 --> 00:16:53,279

time we've seen some amazing photos

465

00:16:57,590 --> 00:16:55,759

you've been taking of earth from space

466

00:17:01,110 --> 00:16:57,600

are you getting any of that

467

00:17:05,029 --> 00:17:02,710

oh yeah we're always on the lookout for

468

00:17:07,270 --> 00:17:05,039

some interesting photos i spend i spend

469

00:17:08,870 --> 00:17:07,280

some time in the cupola when i usually

470

00:17:10,789 --> 00:17:08,880

at the end of the day i'll spend the you

471

00:17:12,390 --> 00:17:10,799

know 30 minutes to an hour in the cupola

472

00:17:14,630 --> 00:17:12,400

just watching the world go around and

473

00:17:15,590 --> 00:17:14,640

trying to take some good pictures

474

00:17:17,110 --> 00:17:15,600

um

475

00:17:18,789 --> 00:17:17,120

you know mostly what i do in the free

476

00:17:20,230 --> 00:17:18,799

time is i'm kind of looking ahead it's

477

00:17:21,669 --> 00:17:20,240

this is kind of i look at this as like

478

00:17:22,949 --> 00:17:21,679

being flying an airplane you got to try

479

00:17:24,549 --> 00:17:22,959

to stay ahead of the vehicle so i'm

480

00:17:26,309 --> 00:17:24,559

looking at tomorrow's activities or next

481

00:17:28,549 --> 00:17:26,319

week's activities and seeing where i can

482

00:17:30,230 --> 00:17:28,559

get ahead here and there but mostly just

483

00:17:31,990 --> 00:17:30,240

enjoying myself looking out the window

484

00:17:33,750 --> 00:17:32,000

in the cupola calling home and talking

485

00:17:35,990 --> 00:17:33,760

to the family and making a few phone

486

00:17:37,990 --> 00:17:36,000

calls to friends

487

00:17:39,990 --> 00:17:38,000

now i've seen photos of you literally

488

00:17:41,270 --> 00:17:40,000

standing on top of the world in in the

489

00:17:43,430 --> 00:17:41,280

cupola

490

00:17:46,070 --> 00:17:43,440

and amazing images of

491

00:17:46,789 --> 00:17:46,080

volcanoes and clouds and just just the

492

00:17:48,870 --> 00:17:46,799

the

493

00:17:51,110 --> 00:17:48,880

striking view of space i'm wondering if

494

00:17:53,669 --> 00:17:51,120

there's one so far if you can pick a

495

00:17:58,470 --> 00:17:53,679

favorite site or a moment that was just

496

00:18:02,230 --> 00:18:00,470

well i think i've had so many of those

497

00:18:04,070 --> 00:18:02,240

uh like i said on the shuttle missions

498

00:18:07,110 --> 00:18:04,080

you just don't get the time to spend in

499

00:18:08,470 --> 00:18:07,120

the windows like like i do now

500

00:18:10,870 --> 00:18:08,480

uh you know we've been going over

501

00:18:12,549 --> 00:18:10,880

patagonia south the southern tip of

502

00:18:14,390 --> 00:18:12,559

south america quite a bit just the way

503

00:18:16,150 --> 00:18:14,400

our orbits spin and that's a that's an

504

00:18:17,669 --> 00:18:16,160

incredible area and every time you look

505

00:18:18,549 --> 00:18:17,679

out the window at that place you find

506

00:18:20,870 --> 00:18:18,559

something

507

00:18:23,270 --> 00:18:20,880

even more beautiful than last time uh

508

00:18:24,630 --> 00:18:23,280

one of the more uh puzzling things i saw

509

00:18:27,750 --> 00:18:24,640

the other day is we're going over the

510

00:18:29,510 --> 00:18:27,760

andes was looked like some kind of a

511

00:18:31,270 --> 00:18:29,520

valley where an avalanche or something

512

00:18:32,870 --> 00:18:31,280

had taken place i would love to know

513

00:18:33,990 --> 00:18:32,880

what was going on down there at that

514

00:18:38,310 --> 00:18:34,000

time so

515

00:18:41,590 --> 00:18:39,110

great

516

00:18:43,430 --> 00:18:41,600

one of our readers actually his name is

517

00:18:45,750 --> 00:18:43,440

now quote was wondering about the

518

00:18:47,990 --> 00:18:45,760

geminid meteor shower we saw some photos

519

00:18:49,750 --> 00:18:48,000

from the station of comet ison lately

520

00:18:53,029 --> 00:18:49,760

are you hoping to see a shooting star

521

00:18:56,070 --> 00:18:54,630

yeah in fact every once in a while when

522

00:18:57,590 --> 00:18:56,080

you're out in the cupola and you got the

523

00:18:59,190 --> 00:18:57,600

lights turned down and your eyes are

524

00:19:01,190 --> 00:18:59,200

adjusted you could see a shooting star

525

00:19:03,590 --> 00:19:01,200

they're pretty rare it takes uh takes a

526

00:19:04,470 --> 00:19:03,600

lot of patience obviously to find one of

527

00:19:06,470 --> 00:19:04,480

those

528

00:19:08,230 --> 00:19:06,480

i think i've seen one or two up here

529

00:19:09,990 --> 00:19:08,240

since i've gotten here but like i said

530

00:19:14,549 --> 00:19:10,000

it takes a lot of patience and a lot of

531

00:19:18,070 --> 00:19:16,710

great well rick i'm out of time but

532

00:19:19,750 --> 00:19:18,080

thank you so much for having the time to

533

00:19:21,430 --> 00:19:19,760

talk to us today from the the space

534

00:19:24,549 --> 00:19:21,440

station and all the best in expedition

535

00:19:25,830 --> 00:19:24,559

38 and 39

536

00:19:29,590 --> 00:19:25,840

thank you very much it was great to talk

537

00:19:36,070 --> 00:19:32,310

station this is houston acr thank you

538

00:19:42,390 --> 00:19:39,750

thank you very much and thank you ap and