



Майкл ФОССУМ  
Michael FOSSUM

Сатоси ФУРУКАВА  
Satoshi FURUKAWA

1  
00:00:17,029 --> 00:00:14,070  
so today

2  
00:00:19,670 --> 00:00:17,039  
we have already

3  
00:00:22,790 --> 00:00:19,680  
undergone the agency committee

4  
00:00:25,509 --> 00:00:22,800  
that determines crew readiness

5  
00:00:26,630 --> 00:00:25,519  
at the end of past week on thursday the

6  
00:00:29,349 --> 00:00:26,640  
crew

7  
00:00:30,390 --> 00:00:29,359  
has undergone integrated

8  
00:00:32,069 --> 00:00:30,400  
sims

9  
00:00:34,870 --> 00:00:32,079  
i understand that many of you were

10  
00:00:36,950 --> 00:00:34,880  
present in those simulations and

11  
00:00:37,910 --> 00:00:36,960  
i know that the crew has passed all the

12  
00:00:40,310 --> 00:00:37,920  
tests

13  
00:00:41,430 --> 00:00:40,320

uh the grade is excellent

14

00:00:44,229 --> 00:00:41,440

and for

15

00:00:46,229 --> 00:00:44,239

today's procedure for the agency where

16

00:00:48,549 --> 00:00:46,239

there are various representatives

17

00:00:50,389 --> 00:00:48,559

present of various agencies and

18

00:00:53,270 --> 00:00:50,399

organizations

19

00:00:54,950 --> 00:00:53,280

everybody had signed the protocols

20

00:00:58,549 --> 00:00:54,960

and

21

00:01:00,549 --> 00:00:58,559

concluded that or stated that the crew

22

00:01:03,029 --> 00:01:00,559

has completed their training

23

00:01:04,469 --> 00:01:03,039

and the crew is admitted to the

24

00:01:07,270 --> 00:01:04,479

completion

25

00:01:09,350 --> 00:01:07,280

of training

26

00:01:10,469 --> 00:01:09,360

and introductory

27

00:01:11,990 --> 00:01:10,479

word

28

00:01:14,469 --> 00:01:12,000

that's enough for introduction if

29

00:01:16,390 --> 00:01:14,479

anybody has any questions or if no

30

00:01:18,870 --> 00:01:16,400

questions let's get started

31

00:01:21,350 --> 00:01:18,880

uh who has questions

32

00:01:23,749 --> 00:01:21,360

were you able to train for all the

33

00:01:24,830 --> 00:01:23,759

contingency situations when you were

34

00:01:27,590 --> 00:01:24,840

taking your

35

00:01:36,710 --> 00:01:27,600

tests during our

36

00:01:43,670 --> 00:01:40,469

we normally practice during erasums

37

00:01:47,830 --> 00:01:43,680

we practice actions

38

00:01:49,350 --> 00:01:47,840

in design contingency situations

39

00:01:51,910 --> 00:01:49,360

which means that

40

00:01:53,109 --> 00:01:51,920

we train for what has been discovered on

41

00:01:57,109 --> 00:01:53,119

the ground

42

00:01:59,510 --> 00:01:57,119

and so those are the anomalies that we

43

00:02:01,510 --> 00:01:59,520

simulate of course the off nominal

44

00:02:03,749 --> 00:02:01,520

situations that are inadvertent

45

00:02:04,550 --> 00:02:03,759

unpredictable are impossible to train

46

00:02:06,230 --> 00:02:04,560

for

47

00:02:09,910 --> 00:02:06,240

um

48

00:02:12,150 --> 00:02:09,920

so we could say that if we did

49

00:02:14,070 --> 00:02:12,160

train for them it was not completely

50

00:02:15,670 --> 00:02:14,080

when we were applying our expedition

51

00:02:16,869 --> 00:02:15,680

three years ago

52

00:02:18,949 --> 00:02:16,879

then

53

00:02:22,070 --> 00:02:18,959

there was a pump that failed and that

54

00:02:24,309 --> 00:02:22,080

was not a design contingency situation

55

00:02:26,630 --> 00:02:24,319

and um

56

00:02:28,710 --> 00:02:26,640

the bathroom the restaurant failed and

57

00:02:31,030 --> 00:02:28,720

we were without the restroom for quite

58

00:02:32,869 --> 00:02:31,040

for about a month no don't tell them

59

00:02:38,070 --> 00:02:32,879

that because they'll say that they were

60

00:02:42,949 --> 00:02:40,470

here usually how do we deal with that

61

00:02:46,470 --> 00:02:42,959

usually we use our smarts and we use

62

00:02:49,990 --> 00:02:46,480

whatever is available to us at least

63

00:02:53,190 --> 00:02:52,070

uh we had

64

00:02:59,110 --> 00:02:53,200

already

65

00:03:03,350 --> 00:03:01,430

i'm going to add a little bit sergey

66

00:03:06,550 --> 00:03:03,360

that although the training goes

67

00:03:09,350 --> 00:03:06,560

according to the nominal program and the

68

00:03:12,390 --> 00:03:09,360

design contingency situations but some

69

00:03:15,030 --> 00:03:12,400

of nominal situations are also

70

00:03:17,750 --> 00:03:15,040

being simulated and at the

71

00:03:20,309 --> 00:03:17,760

stage of training the crew is thinking

72

00:03:22,790 --> 00:03:20,319

about what might happen

73

00:03:24,949 --> 00:03:22,800

if you look at the program of training

74

00:03:27,430 --> 00:03:24,959

and we have analyzed that

75

00:03:30,710 --> 00:03:27,440

program the preparation for that

76  
00:03:33,430 --> 00:03:30,720  
nominal program takes about 20 percent

77  
00:03:36,149 --> 00:03:33,440  
of the training and 80 percent

78  
00:03:38,149 --> 00:03:36,159  
realistically it takes

79  
00:03:39,910 --> 00:03:38,159  
to train for what is to be done if

80  
00:03:41,030 --> 00:03:39,920  
something goes wrong so as far as the

81  
00:03:43,270 --> 00:03:41,040  
design

82  
00:03:45,270 --> 00:03:43,280  
situations or of nominal situations are

83  
00:03:48,229 --> 00:03:45,280  
concerned that are not design situations

84  
00:03:51,270 --> 00:03:48,239  
the crew must be ready

85  
00:03:54,869 --> 00:03:51,280  
to mitigate those situations

86  
00:03:57,110 --> 00:03:54,879  
and also i remember now that of course

87  
00:03:58,830 --> 00:03:57,120  
during the space walk

88  
00:04:01,429 --> 00:03:58,840

of our first

89

00:04:04,630 --> 00:04:01,439

colleague we

90

00:04:06,630 --> 00:04:04,640

had to disassemble parabolas of our

91

00:04:09,509 --> 00:04:06,640

soyuz

92

00:04:11,429 --> 00:04:09,519

and nobody could have ever thought

93

00:04:12,830 --> 00:04:11,439

that the crew

94

00:04:14,949 --> 00:04:12,840

would have to go

95

00:04:16,789 --> 00:04:14,959

out and

96

00:04:18,550 --> 00:04:16,799

work on our own

97

00:04:21,030 --> 00:04:18,560

vehicle

98

00:04:23,670 --> 00:04:21,040

without coming back to the earth

99

00:04:26,550 --> 00:04:23,680

so we have to do some modifications in

100

00:04:29,909 --> 00:04:26,560

order to get back safely to earth

101  
00:04:37,670 --> 00:04:31,909  
it's hard to work in space anyway

102  
00:04:40,390 --> 00:04:38,790  
and

103  
00:04:42,950 --> 00:04:40,400  
in flight

104  
00:04:44,550 --> 00:04:42,960  
and also sergey konstantinovich

105  
00:04:47,430 --> 00:04:44,560  
visited

106  
00:04:51,430 --> 00:04:50,230  
deputy general designer

107  
00:04:52,390 --> 00:04:51,440  
visited

108  
00:05:03,749 --> 00:04:52,400  
and

109  
00:05:04,870 --> 00:05:03,759  
as training is concerned

110  
00:05:06,790 --> 00:05:04,880  
those are

111  
00:05:10,150 --> 00:05:06,800  
questions which people are not ready to

112  
00:05:12,390 --> 00:05:10,160  
ask speaking of training

113  
00:05:16,070 --> 00:05:12,400

certain skills are formed

114

00:05:17,189 --> 00:05:16,080

it's it's not just that applied program

115

00:05:20,390 --> 00:05:17,199

is

116

00:05:22,230 --> 00:05:20,400

simulated but during the training

117

00:05:24,950 --> 00:05:22,240

the skill

118

00:05:28,469 --> 00:05:24,960

that is formed can also be used for

119

00:05:33,350 --> 00:05:30,950

not necessarily for

120

00:05:35,830 --> 00:05:33,360

nominal flight itself and last time what

121

00:05:38,629 --> 00:05:35,840

we had to do

122

00:05:40,629 --> 00:05:38,639

the skill that has been created the

123

00:05:42,950 --> 00:05:40,639

overall generic skill

124

00:05:45,909 --> 00:05:42,960

with working with the station

125

00:05:48,150 --> 00:05:45,919

came in very handy

126

00:05:50,390 --> 00:05:48,160

more questions

127

00:05:53,590 --> 00:05:50,400

mr foster michael can you compare

128

00:05:55,670 --> 00:05:53,600

preparation to use flight uh

129

00:05:57,590 --> 00:05:55,680

with the shuttle preparation uh the

130

00:06:01,029 --> 00:05:57,600

first question the question to mr

131

00:06:04,790 --> 00:06:01,039

furukawa are can you please

132

00:06:06,469 --> 00:06:04,800

your medical specialist does it help you

133

00:06:08,950 --> 00:06:06,479

in your scientific program and what is

134

00:06:11,029 --> 00:06:08,960

your scientific program on board the

135

00:06:14,309 --> 00:06:11,039

international space station so you can

136

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

answer that okay i'll start out the the

137

00:06:17,189 --> 00:06:16,160

preparation for a space shuttle mission

138

00:06:18,710 --> 00:06:17,199

is about

139

00:06:24,550 --> 00:06:18,720

a year

140

00:06:26,150 --> 00:06:24,560

for about eight months we were assigned

141

00:06:28,230 --> 00:06:26,160

to this flight

142

00:06:29,990 --> 00:06:28,240

about two and a half years

143

00:06:33,110 --> 00:06:30,000

before i was assigned two and a half

144

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

years before it's a much longer road and

145

00:06:35,909 --> 00:06:34,880

you're traveling around the world

146

00:06:36,629 --> 00:06:35,919

training

147

00:06:37,990 --> 00:06:36,639

in

148

00:06:41,110 --> 00:06:38,000

the us

149

00:06:44,710 --> 00:06:41,120

in russia a lot in japan

150

00:06:47,350 --> 00:06:44,720

in germany in canada and so it's it's a

151

00:06:49,909 --> 00:06:47,360

long road it's a it's a great

152

00:06:52,710 --> 00:06:49,919

uh great thing though to to work with

153

00:06:54,629 --> 00:06:52,720

the some of the finest people

154

00:06:58,469 --> 00:06:54,639

around the world in the space program

155

00:07:01,589 --> 00:06:58,479

and it's been a great experience for me

156

00:07:06,550 --> 00:07:01,599

okay as a medical doctor i am interested

157

00:07:08,790 --> 00:07:07,749

is it okay

158

00:07:11,430 --> 00:07:08,800

okay

159

00:07:14,309 --> 00:07:11,440

and uh i would like to explain

160

00:07:17,670 --> 00:07:14,319

and inform the uh importance and the

161

00:07:19,350 --> 00:07:17,680

significance of experiments on board the

162

00:07:20,950 --> 00:07:19,360

station

163

00:07:23,510 --> 00:07:20,960

during our mission

164

00:07:26,629 --> 00:07:23,520

uh i'm

165

00:07:28,390 --> 00:07:26,639

doing conducting a plant experiment

166

00:07:29,350 --> 00:07:28,400

using cucumbers

167

00:07:36,070 --> 00:07:29,360

and that

168

00:07:37,909 --> 00:07:36,080

its distribution affects the uh

169

00:07:41,430 --> 00:07:37,919

generation

170

00:07:44,230 --> 00:07:41,440

of and the growth of plants

171

00:07:45,430 --> 00:07:44,240

and in this experiment we concentrate on

172

00:07:54,710 --> 00:07:45,440

the

173

00:07:57,029 --> 00:07:54,720

works

174

00:07:58,550 --> 00:07:57,039

and it will benefit people all over the

175

00:08:01,510 --> 00:07:58,560

world for example

176

00:08:04,070 --> 00:08:01,520

in the future uh space plant

177

00:08:05,350 --> 00:08:04,080

and uh as a medical doctor

178

00:08:07,670 --> 00:08:05,360

uh if

179

00:08:09,189 --> 00:08:07,680

some something medical emergency happens

180

00:08:12,150 --> 00:08:09,199

on board the station

181

00:08:13,110 --> 00:08:12,160

i'd be happy to i hope that kind of

182

00:08:15,510 --> 00:08:13,120

thing

183

00:08:16,469 --> 00:08:15,520

does not happen but that if it does

184

00:08:19,189 --> 00:08:16,479

happen

185

00:08:22,230 --> 00:08:19,199

uh i'd be happy to help

186

00:08:27,430 --> 00:08:22,240

our fellow crew members

187

00:08:29,350 --> 00:08:27,440

what kind of talisman or good luck charm

188

00:08:34,070 --> 00:08:29,360

are you going to have

189

00:08:39,110 --> 00:08:35,829

a major portion of experiments that is

190

00:08:43,750 --> 00:08:41,269

is a continuation of the scientific

191

00:08:47,829 --> 00:08:43,760

program that we have started three that

192

00:08:50,949 --> 00:08:50,150

during our

193

00:08:56,710 --> 00:08:50,959

uh

194

00:09:00,310 --> 00:08:58,870

maintain communication we're going to do

195

00:09:02,949 --> 00:09:00,320

the appropriate

196

00:09:05,430 --> 00:09:02,959

work with that hardware

197

00:09:09,350 --> 00:09:05,440

and if everything is successful

198

00:09:12,150 --> 00:09:09,360

uh it will allow us to process a large

199

00:09:12,949 --> 00:09:12,160

volumes of information unfortunately we

200

00:09:15,190 --> 00:09:12,959

can

201  
00:09:17,829 --> 00:09:15,200  
do it now

202  
00:09:26,870 --> 00:09:17,839  
otherwise naturally there will be

203  
00:09:30,949 --> 00:09:29,430  
to decipher those experiments probably

204  
00:09:34,070 --> 00:09:30,959  
doesn't make any sense because it will

205  
00:09:36,949 --> 00:09:34,080  
take a long time

206  
00:09:41,269 --> 00:09:36,959  
to so we're going to continue our

207  
00:09:42,310 --> 00:09:41,279  
experiments senior hurricane oregon

208  
00:09:43,590 --> 00:09:42,320  
and

209  
00:09:46,550 --> 00:09:43,600  
also

210  
00:09:48,550 --> 00:09:46,560  
experiments devote to the studies of the

211  
00:09:51,829 --> 00:09:48,560  
waters of the

212  
00:09:54,150 --> 00:09:51,839  
world ocean and those will be

213  
00:09:56,230 --> 00:09:54,160

experiments directed towards uh

214

00:09:59,590 --> 00:09:56,240

mitigating or

215

00:10:01,430 --> 00:09:59,600

fighting the elemental disasters

216

00:10:03,190 --> 00:10:01,440

also

217

00:10:05,030 --> 00:10:03,200

there will be studies atmospheric

218

00:10:07,990 --> 00:10:05,040

studies and maybe we'll do a certain

219

00:10:10,870 --> 00:10:08,000

analysis which will improve

220

00:10:13,670 --> 00:10:10,880

the ability to forecast elemental

221

00:10:15,990 --> 00:10:13,680

disasters all of those regions are

222

00:10:17,430 --> 00:10:16,000

photographed are studied

223

00:10:20,150 --> 00:10:17,440

and

224

00:10:21,910 --> 00:10:20,160

senior that is

225

00:10:24,150 --> 00:10:21,920

to aid our

226

00:10:26,150 --> 00:10:24,160

fleet so that we could always have fresh

227

00:10:29,030 --> 00:10:26,160

fish

228

00:10:31,350 --> 00:10:29,040

also the experiments are continuing

229

00:10:33,590 --> 00:10:31,360

uh on the studies of radiation

230

00:10:35,670 --> 00:10:33,600

background around the earth

231

00:10:37,269 --> 00:10:35,680

and the effect of radiation

232

00:10:39,590 --> 00:10:37,279

both solar

233

00:10:42,069 --> 00:10:39,600

radiation and other radiation both on

234

00:10:44,389 --> 00:10:42,079

the people that are on the station and

235

00:10:48,069 --> 00:10:44,399

also on the station itself

236

00:10:53,110 --> 00:10:50,710

alexander and i are going to install a

237

00:10:55,829 --> 00:10:53,120

new series of specimens

238

00:10:57,269 --> 00:10:55,839

which will be exposed on the surface of

239

00:10:59,829 --> 00:10:57,279

the station

240

00:11:04,630 --> 00:10:59,839

so these are the major experiments that

241

00:11:10,310 --> 00:11:07,350

this last time i had a little dogeno i

242

00:11:11,030 --> 00:11:10,320

had a bat a soft bat flying last time

243

00:11:15,190 --> 00:11:11,040

and

244

00:11:19,750 --> 00:11:17,110

as a child

245

00:11:21,590 --> 00:11:19,760

he watches movies and

246

00:11:23,590 --> 00:11:21,600

so he's interested in the popular

247

00:11:26,790 --> 00:11:23,600

characters of

248

00:11:33,509 --> 00:11:26,800

modern cartoons

249

00:11:33,519 --> 00:11:39,750

a character from a cartoon

250

00:11:44,150 --> 00:11:42,710

you have undergone successful

251  
00:11:46,630 --> 00:11:44,160  
training

252  
00:11:49,030 --> 00:11:46,640  
and you have passed all the tests

253  
00:11:51,030 --> 00:11:49,040  
with the great excellent

254  
00:11:53,670 --> 00:11:51,040  
what is your mood

255  
00:12:07,670 --> 00:11:53,680  
what is your feeling when uh

256  
00:12:11,670 --> 00:12:09,829  
because of my excellent

257  
00:12:15,269 --> 00:12:11,680  
instructors

258  
00:12:15,279 --> 00:12:19,750  
and i am proud

259  
00:12:25,190 --> 00:12:21,990  
that i am a member of a wonderful

260  
00:12:29,030 --> 00:12:25,200  
international crew

261  
00:12:31,990 --> 00:12:29,040  
and this is a great honor for me

262  
00:12:34,310 --> 00:12:32,000  
space flight is

263  
00:12:49,509 --> 00:12:34,320

and especially because it's close to the

264

00:12:55,110 --> 00:12:53,190

the international cooperation will grow

265

00:12:57,750 --> 00:12:55,120

questions

266

00:12:59,910 --> 00:12:57,760

what is your updated information to have

267

00:13:02,550 --> 00:12:59,920

a conversation with different topic

268

00:13:04,550 --> 00:13:02,560

throughout your aspect

269

00:13:09,430 --> 00:13:04,560

which date it can be what kind of

270

00:13:14,069 --> 00:13:12,069

okay

271

00:13:15,990 --> 00:13:14,079

uh

272

00:13:18,790 --> 00:13:16,000

i requested

273

00:13:20,389 --> 00:13:18,800

that i have some

274

00:13:23,670 --> 00:13:20,399

meeting

275

00:13:27,030 --> 00:13:23,680

uh with those that suffered from uh

276

00:13:30,069 --> 00:13:27,040

earthquake in tohoku area and it is

277

00:13:31,990 --> 00:13:30,079

still under uh coordination

278

00:13:35,269 --> 00:13:32,000

so uh

279

00:13:37,590 --> 00:13:35,279

at this point i cannot uh

280

00:13:39,430 --> 00:13:37,600

clarify the date stephanie stole his

281

00:13:41,110 --> 00:13:39,440

massive tv for mike

282

00:13:42,710 --> 00:13:41,120

what is your level of excitement as you

283

00:13:45,750 --> 00:13:42,720

head into your final months of training

284

00:13:49,590 --> 00:13:47,350

hey stephanie that's a great question

285

00:13:51,750 --> 00:13:49,600

it's been a long road getting here uh

286

00:13:53,590 --> 00:13:51,760

and it's been a hard road getting here

287

00:13:55,990 --> 00:13:53,600

we've gone through a lot we've trained

288

00:13:58,629 --> 00:13:56,000

really hard together i've become like

289

00:14:01,430 --> 00:13:58,639

brothers with my crewmates and uh it's

290

00:14:03,430 --> 00:14:01,440

an exciting thing so we're ready for

291

00:14:05,590 --> 00:14:03,440

for the next step as we uh we've

292

00:14:07,590 --> 00:14:05,600

completed our training in star city with

293

00:14:10,069 --> 00:14:07,600

the commissions last week

294

00:14:11,269 --> 00:14:10,079

uh that was a great step and now we move

295

00:14:14,389 --> 00:14:11,279

forward to

296

00:14:15,990 --> 00:14:14,399

uh to baikonur in next week where we

297

00:14:18,069 --> 00:14:16,000

complete the final fit checks and

298

00:14:19,829 --> 00:14:18,079

preparations and trainings there so

299

00:14:21,750 --> 00:14:19,839

we're excited about it's a long road but

300

00:14:23,750 --> 00:14:21,760

now most of that hard work is on the

301  
00:14:28,949 --> 00:14:23,760  
ground is behind us and we're looking

302  
00:14:33,829 --> 00:14:30,710  
work on space shuttle endeavor do you

303  
00:14:36,150 --> 00:14:33,839  
have any thoughts as we head into that

304  
00:14:38,230 --> 00:14:36,160  
we're keeping track of endeavors uh in

305  
00:14:39,910 --> 00:14:38,240  
progress uh through the countdown and

306  
00:14:42,230 --> 00:14:39,920  
and uh the progress through the night as

307  
00:14:44,550 --> 00:14:42,240  
they begin you know the the rotation and

308  
00:14:46,230 --> 00:14:44,560  
the fueling and everything so we're

309  
00:14:48,150 --> 00:14:46,240  
we're keeping track of the guys and

310  
00:14:50,389 --> 00:14:48,160  
we're cheering them on and i've flown

311  
00:14:52,710 --> 00:14:50,399  
twice with mark and i can't believe he's

312  
00:14:54,870 --> 00:14:52,720  
going to space without me i gave him a

313  
00:14:55,829 --> 00:14:54,880

hard time and told him if he waited too

314

00:14:59,829 --> 00:14:55,839

long

315

00:15:07,590 --> 00:15:03,829

a question to continue the subject of

316

00:15:09,829 --> 00:15:07,600

earthquake is there such a

317

00:15:12,790 --> 00:15:09,839

a special program

318

00:15:15,189 --> 00:15:12,800

of japanese russian

319

00:15:20,629 --> 00:15:15,199

astronauts and cosmonauts

320

00:15:25,750 --> 00:15:23,750

maybe there are capabilities to see what

321

00:15:29,030 --> 00:15:25,760

happens

322

00:15:30,949 --> 00:15:29,040

in japan from onboard the iss is it

323

00:15:35,030 --> 00:15:30,959

possible to forecast

324

00:15:35,040 --> 00:15:39,269

okay

325

00:15:44,629 --> 00:15:41,910

there is uh

326

00:15:47,189 --> 00:15:44,639

of course from uh international space

327

00:15:49,430 --> 00:15:47,199

station astronauts and cosmonauts can

328

00:15:50,470 --> 00:15:49,440

observe the earth

329

00:15:51,749 --> 00:15:50,480

and that

330

00:15:53,590 --> 00:15:51,759

can

331

00:15:55,189 --> 00:15:53,600

take photographs

332

00:15:57,110 --> 00:15:55,199

of the

333

00:15:58,069 --> 00:15:57,120

area

334

00:16:02,949 --> 00:15:58,079

and

335

00:16:13,110 --> 00:16:05,269

there is no

336

00:16:15,670 --> 00:16:14,550

i'm going to add

337

00:16:17,670 --> 00:16:15,680

in

338

00:16:21,030 --> 00:16:17,680

right now there is no program to

339

00:16:21,910 --> 00:16:21,040

forecast earthquakes or track down

340

00:16:23,910 --> 00:16:21,920

the

341

00:16:25,189 --> 00:16:23,920

movement of tsunami

342

00:16:27,829 --> 00:16:25,199

and

343

00:16:30,069 --> 00:16:27,839

unfortunately earthquakes

344

00:16:31,590 --> 00:16:30,079

to what we could help

345

00:16:34,150 --> 00:16:31,600

with is to

346

00:16:36,150 --> 00:16:34,160

do photographs and of course photographs

347

00:16:39,189 --> 00:16:36,160

are a consequence

348

00:16:42,550 --> 00:16:39,199

and if there is a good resolution and a

349

00:16:45,030 --> 00:16:42,560

good area could be covered

350

00:16:46,470 --> 00:16:45,040

unfortunately nowadays or in this

351  
00:16:49,030 --> 00:16:46,480  
particular case

352  
00:16:50,389 --> 00:16:49,040  
we work with the evaluation of the

353  
00:16:52,310 --> 00:16:50,399  
results

354  
00:16:54,389 --> 00:16:52,320  
of the consequences but unfortunately

355  
00:16:56,949 --> 00:16:54,399  
we're unable to forecast

356  
00:16:58,629 --> 00:16:56,959  
extreme situations i would like to add

357  
00:17:00,629 --> 00:16:58,639  
also

358  
00:17:02,230 --> 00:17:00,639  
indeed you can take pictures of what has

359  
00:17:05,029 --> 00:17:02,240  
already happened

360  
00:17:08,230 --> 00:17:05,039  
so to speak of the fact that the picture

361  
00:17:10,710 --> 00:17:08,240  
may help forecast it's not quite correct

362  
00:17:13,429 --> 00:17:10,720  
um and uh during my

363  
00:17:15,510 --> 00:17:13,439

previous flight there was katrina

364

00:17:17,270 --> 00:17:15,520

hurricane

365

00:17:19,590 --> 00:17:17,280

which has

366

00:17:22,150 --> 00:17:19,600

done serious damage in the south of the

367

00:17:23,909 --> 00:17:22,160

united states the new early new orleans

368

00:17:25,510 --> 00:17:23,919

the city of new orleans

369

00:17:26,549 --> 00:17:25,520

suffered greatly

370

00:17:29,110 --> 00:17:26,559

um

371

00:17:30,950 --> 00:17:29,120

we saw a huge cloud

372

00:17:33,590 --> 00:17:30,960

and

373

00:17:35,750 --> 00:17:33,600

meteorological satellites

374

00:17:37,110 --> 00:17:35,760

may show photography with greater

375

00:17:39,110 --> 00:17:37,120

resolution

376

00:17:41,669 --> 00:17:39,120

uh but the results that we have if we

377

00:17:43,270 --> 00:17:41,679

were to talk about earthquakes then if

378

00:17:45,110 --> 00:17:43,280

you were to

379

00:17:48,310 --> 00:17:45,120

look at it from

380

00:17:51,110 --> 00:17:48,320

onboard the iss you can't really see

381

00:17:52,470 --> 00:17:51,120

much but indirectly one might be able to

382

00:17:55,190 --> 00:17:52,480

predict

383

00:17:57,909 --> 00:17:55,200

the signs the symptoms of

384

00:17:59,190 --> 00:17:57,919

an earthquake

385

00:18:03,029 --> 00:17:59,200

not

386

00:18:05,350 --> 00:18:03,039

development of

387

00:18:07,029 --> 00:18:05,360

earthquake or tsunami because it may be

388

00:18:08,789 --> 00:18:07,039

in quite a different

389

00:18:11,190 --> 00:18:08,799

area it may be conditioned by the

390

00:18:13,590 --> 00:18:11,200

geomagnetic properties of the earth of

391

00:18:17,190 --> 00:18:15,110

right now there are scientific

392

00:18:18,230 --> 00:18:17,200

experiments that are ongoing on that

393

00:18:19,830 --> 00:18:18,240

subject

394

00:18:22,390 --> 00:18:19,840

and uh

395

00:18:24,710 --> 00:18:22,400

data collection is ongoing and it's not

396

00:18:26,230 --> 00:18:24,720

about

397

00:18:29,590 --> 00:18:26,240

forecasting

398

00:18:33,830 --> 00:18:30,870

the only

399

00:18:36,549 --> 00:18:33,840

thing where we could participate in

400

00:18:39,990 --> 00:18:36,559

forecasting catastrophes

401  
00:18:43,029 --> 00:18:40,000  
is that the ice caps are photographed

402  
00:18:46,950 --> 00:18:45,270  
if you remember

403  
00:18:52,390 --> 00:18:46,960  
there were pictures

404  
00:18:57,029 --> 00:18:54,230  
five days

405  
00:18:59,190 --> 00:18:57,039  
ahead of time where the scientists were

406  
00:19:01,590 --> 00:18:59,200  
able to see that the ice cap was going

407  
00:19:05,029 --> 00:19:02,710  
descend

408  
00:19:05,039 --> 00:19:07,750  
right now

409  
00:19:12,950 --> 00:19:11,350  
it's clear that it happened unexpectedly

410  
00:19:14,310 --> 00:19:12,960  
because of the

411  
00:19:17,750 --> 00:19:14,320  
procedural

412  
00:19:18,950 --> 00:19:17,760  
complications but right now you can see

413  
00:19:22,230 --> 00:19:18,960

our main

414

00:19:25,350 --> 00:19:22,240

task is photography of ice caps and

415

00:19:27,190 --> 00:19:25,360

monitoring that is continuing uh the

416

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

coca ice cap

417

00:19:33,510 --> 00:19:28,160

and

418

00:19:35,430 --> 00:19:33,520

tracking down the motion of the ice caps

419

00:19:39,909 --> 00:19:35,440

this is all

420

00:19:42,789 --> 00:19:41,190

also

421

00:19:45,390 --> 00:19:42,799

as far as a

422

00:19:46,950 --> 00:19:45,400

as a blog is concerned uh we're

423

00:19:49,150 --> 00:19:46,960

communicating

424

00:19:51,270 --> 00:19:49,160

about the blog with ross cosmos

425

00:19:53,029 --> 00:19:51,280

representatives and you're probably

426

00:19:55,029 --> 00:19:53,039

aware of that right now we're just in

427

00:19:57,510 --> 00:19:55,039

the process of analyzing

428

00:19:58,710 --> 00:19:57,520

what which is what is more interesting

429

00:20:01,350 --> 00:19:58,720

perhaps

430

00:20:04,549 --> 00:20:01,360

and maybe not cost

431

00:20:07,190 --> 00:20:04,559

too costly as far as uh work hours are

432

00:20:09,590 --> 00:20:07,200

concerned so

433

00:20:13,990 --> 00:20:09,600

we will have something for sure

434

00:20:18,149 --> 00:20:16,470

what is the easiest way to learn what

435

00:20:20,390 --> 00:20:18,159

you're going to go through before flight

436

00:20:24,149 --> 00:20:20,400

is to ask your colleagues to consult

437

00:20:24,159 --> 00:20:30,470

opinions

438

00:20:30,480 --> 00:20:47,590

sergey is an outstanding commander

439

00:20:54,230 --> 00:20:52,310

i think that the variety is important

440

00:20:57,669 --> 00:20:54,240

both as far as international

441

00:20:58,870 --> 00:20:57,679

representation and experience

442

00:21:00,870 --> 00:20:58,880

and

443

00:21:02,870 --> 00:21:00,880

we are that

444

00:21:05,510 --> 00:21:02,880

way both

445

00:21:10,070 --> 00:21:05,520

as a crew and also

446

00:21:10,080 --> 00:21:15,350

we are well synchronized as the crew

447

00:21:19,909 --> 00:21:17,909

and i'm in the process of studying it

448

00:21:23,110 --> 00:21:19,919

uh further we're working together very

449

00:21:29,990 --> 00:21:23,120

well to share their experience with you

450

00:21:33,510 --> 00:21:32,549

yes yes for example uh what was

451  
00:21:36,070 --> 00:21:33,520  
different

452  
00:21:40,470 --> 00:21:36,080  
from what you thought from taking

453  
00:21:40,480 --> 00:21:43,190  
well i

454  
00:21:47,590 --> 00:21:45,350  
i asked a question what were the

455  
00:21:51,190 --> 00:21:47,600  
difference between the training on the

456  
00:21:56,549 --> 00:21:53,270  
the thing is that

457  
00:21:58,710 --> 00:21:56,559  
as soon as we're together

458  
00:22:00,149 --> 00:21:58,720  
sooner or later

459  
00:22:03,430 --> 00:22:00,159  
of course we

460  
00:22:05,430 --> 00:22:03,440  
we don't always talk uh about work we

461  
00:22:06,789 --> 00:22:05,440  
have other topics to discuss but as a

462  
00:22:10,310 --> 00:22:06,799  
rule

463  
00:22:12,470 --> 00:22:10,320

uh the analysis of any simulation

464

00:22:14,149 --> 00:22:12,480

during the deep breath we

465

00:22:16,549 --> 00:22:14,159

always

466

00:22:19,669 --> 00:22:16,559

pay attention at those things which are

467

00:22:22,390 --> 00:22:19,679

impossible to simulate

468

00:22:25,830 --> 00:22:22,400

so the data exchange is ongoing

469

00:22:27,750 --> 00:22:25,840

continuously uninterruptedly

470

00:22:29,909 --> 00:22:27,760

it's not just the main crew but the

471

00:22:32,710 --> 00:22:29,919

backup crew

472

00:22:35,510 --> 00:22:32,720

participates and

473

00:22:39,190 --> 00:22:35,520

satoshi is worried about over

474

00:22:46,390 --> 00:22:42,230

we have very good relationships

475

00:22:50,710 --> 00:22:47,830

usually

476  
00:22:53,909 --> 00:22:50,720  
as a rule there are certain fine points

477  
00:22:55,669 --> 00:22:53,919  
that come up which you can't remember

478  
00:22:58,070 --> 00:22:55,679  
immediately

479  
00:23:00,390 --> 00:22:58,080  
and the process of

480  
00:23:02,870 --> 00:23:00,400  
formation of

481  
00:23:03,909 --> 00:23:02,880  
information exchange

482  
00:23:07,110 --> 00:23:03,919  
as

483  
00:23:09,990 --> 00:23:07,120  
it happened 10 years ago

484  
00:23:12,070 --> 00:23:10,000  
where my commander shared his experience

485  
00:23:13,430 --> 00:23:12,080  
with me not only during training but

486  
00:23:23,029 --> 00:23:13,440  
also during

487  
00:23:26,149 --> 00:23:24,710  
so

488  
00:23:26,870 --> 00:23:26,159

what about

489

00:23:29,430 --> 00:23:26,880

the

490

00:23:31,909 --> 00:23:29,440

everyday life moments that you cannot

491

00:23:32,870 --> 00:23:31,919

simulate

492

00:23:35,110 --> 00:23:32,880

this is

493

00:23:38,310 --> 00:23:35,120

the main thing of course

494

00:23:39,430 --> 00:23:38,320

because during the work on the station

495

00:23:45,830 --> 00:23:39,440

uh

496

00:23:48,830 --> 00:23:45,840

houston but the quincy and details that

497

00:23:50,630 --> 00:23:48,840

are easier to bear

498

00:23:52,310 --> 00:23:50,640

um

499

00:23:56,470 --> 00:23:52,320

are less costly

500

00:24:02,870 --> 00:23:59,190

the simplest one is

501  
00:24:07,750 --> 00:24:04,470  
there's certain details let's say how do

502  
00:24:13,590 --> 00:24:10,549  
what sort of things are

503  
00:24:15,750 --> 00:24:13,600  
you going to encounter

504  
00:24:18,630 --> 00:24:15,760  
any travel any trip

505  
00:24:20,470 --> 00:24:18,640  
any communication or any storytelling

506  
00:24:22,149 --> 00:24:20,480  
when the cosmonauts and astronauts get

507  
00:24:25,029 --> 00:24:22,159  
together and they

508  
00:24:27,750 --> 00:24:25,039  
uh reminisce about their flies

509  
00:24:30,149 --> 00:24:27,760  
and so this sort of thing even though

510  
00:24:32,630 --> 00:24:30,159  
it's not a formal lesson but

511  
00:24:35,590 --> 00:24:32,640  
such history session for such exchange

512  
00:24:36,390 --> 00:24:35,600  
of information is extremely useful

513  
00:24:38,950 --> 00:24:36,400

uh

514

00:24:41,830 --> 00:24:38,960

especially because it has been heard

515

00:24:44,470 --> 00:24:41,840

not as a part of an official lesson but

516

00:24:45,590 --> 00:24:44,480

because you you've heard it from a real

517

00:24:48,630 --> 00:24:45,600

person

518

00:24:51,029 --> 00:24:48,640

to whom it occurred um in reality a

519

00:24:52,710 --> 00:24:51,039

couple of years ago in flight and so

520

00:24:55,430 --> 00:24:52,720

i've been telling such things to sergey

521

00:24:58,149 --> 00:24:55,440

i'm sure sergey does the same

522

00:25:01,029 --> 00:24:58,159

also when we were training for flight

523

00:25:03,590 --> 00:25:01,039

with oleg and during the traditional

524

00:25:06,549 --> 00:25:03,600

uh meeting with the medical

525

00:25:08,789 --> 00:25:06,559

specialists who participate also in

526

00:25:13,510 --> 00:25:08,799

planning uh as far as training is

527

00:25:16,789 --> 00:25:14,870

let's say

528

00:25:19,590 --> 00:25:16,799

i didn't have this information that i

529

00:25:22,630 --> 00:25:19,600

had to wait after eating a certain

530

00:25:24,789 --> 00:25:22,640

time before i do some physical training

531

00:25:27,590 --> 00:25:24,799

and on board

532

00:25:30,470 --> 00:25:27,600

it it turned out that it was not quite

533

00:25:34,230 --> 00:25:30,480

comfortable or convenient

534

00:25:36,149 --> 00:25:34,240

to do the physical exercise right away

535

00:25:42,230 --> 00:25:36,159

after

536

00:25:56,549 --> 00:25:43,590

you

537

00:26:07,669 --> 00:25:56,559

so these are those little things which

538

00:26:12,630 --> 00:26:08,710

you

539

00:26:13,909 --> 00:26:12,640

are a student of the russian academy

540

00:26:16,470 --> 00:26:13,919

and

541

00:26:19,990 --> 00:26:16,480

are you planning on

542

00:26:22,789 --> 00:26:20,000

taking an exam as a part of your study

543

00:26:25,750 --> 00:26:22,799

yes i don't want to miss the exams that

544

00:26:28,390 --> 00:26:25,760

are at viewed and i believe that i will

545

00:26:31,190 --> 00:26:28,400

make sure that i'll take the necessary

546

00:26:32,789 --> 00:26:31,200

tests i already have a plan a curriculum

547

00:26:35,029 --> 00:26:32,799

of the next

548

00:26:37,190 --> 00:26:35,039

set of exams that i have to pass i got

549

00:26:39,590 --> 00:26:37,200

the email

550

00:26:46,149 --> 00:26:39,600

so it will take me a long time to answer

551  
00:26:52,789 --> 00:26:49,669  
sergey a question for you

552  
00:26:56,870 --> 00:26:52,799  
and the crew

553  
00:27:03,510 --> 00:26:59,830  
that you will be responsible for in

554  
00:27:06,390 --> 00:27:05,269  
if those are

555  
00:27:07,750 --> 00:27:06,400  
minor

556  
00:27:11,430 --> 00:27:07,760  
days

557  
00:27:14,070 --> 00:27:11,440  
minor events if the ground doesn't

558  
00:27:15,190 --> 00:27:14,080  
remind us

559  
00:27:17,430 --> 00:27:15,200  
then

560  
00:27:20,310 --> 00:27:17,440  
we won't be able to celebrate them but

561  
00:27:23,430 --> 00:27:20,320  
let's say

562  
00:27:25,110 --> 00:27:23,440  
remind us that today's been 50 days or

563  
00:27:27,350 --> 00:27:25,120

or next time it's going to be 100 days

564

00:27:29,909 --> 00:27:27,360

if the ground sends us reminders then we

565

00:27:30,870 --> 00:27:29,919

will be celebrating certain minor events

566

00:27:34,310 --> 00:27:30,880

but

567

00:27:38,549 --> 00:27:36,149

we're only going to have three

568

00:27:42,149 --> 00:27:38,559

additional state holidays

569

00:27:43,669 --> 00:27:42,159

one of them is a russian holiday june

570

00:27:45,750 --> 00:27:43,679

12th and

571

00:27:47,750 --> 00:27:45,760

fourth of july is the american holiday

572

00:27:50,149 --> 00:27:47,760

and in september there is a there is a

573

00:27:51,990 --> 00:27:50,159

certain holiday as well

574

00:27:53,430 --> 00:27:52,000

and the final question

575

00:27:54,870 --> 00:27:53,440

this time

576

00:27:57,430 --> 00:27:54,880

i mean one of the things we will

577

00:27:59,830 --> 00:27:57,440

celebrate during this flight is the uh

578

00:28:01,830 --> 00:27:59,840

we will be there for the final

579

00:28:03,110 --> 00:28:01,840

space shuttle flight of

580

00:28:05,510 --> 00:28:03,120

the atlantis

581

00:28:07,909 --> 00:28:05,520

on sts-135

582

00:28:09,830 --> 00:28:07,919

we look forward to seeing chris ferguson

583

00:28:12,470 --> 00:28:09,840

and his crew

584

00:28:14,470 --> 00:28:12,480

it will be a an exciting time it will

585

00:28:18,549 --> 00:28:14,480

also be a sad time as the shuttle

586

00:28:21,110 --> 00:28:18,559

completes its 30 years of mission

587

00:28:25,350 --> 00:28:22,630

sergei

588

00:28:31,430 --> 00:28:28,149

it happened so that your first flight

589

00:28:32,470 --> 00:28:31,440  
coincided with our anniversary

590

00:28:38,470 --> 00:28:32,480  
and

591

00:28:41,350 --> 00:28:40,230  
is also

592

00:28:42,950 --> 00:28:41,360  
happens

593

00:28:46,789 --> 00:28:42,960  
to be also

594

00:28:48,389 --> 00:28:46,799  
coincides with the anniversary so um

595

00:28:50,470 --> 00:28:48,399  
if you have

596

00:29:04,870 --> 00:28:50,480  
any other questions for the backup crew

597

00:29:08,789 --> 00:29:07,269  
my signal is eridan which is a

598

00:29:10,950 --> 00:29:08,799  
constellation

599

00:29:18,230 --> 00:29:10,960  
which starts in the north

600

00:29:22,789 --> 00:29:20,630  
our signal is antares

601  
00:29:26,710 --> 00:29:22,799  
because

602  
00:29:29,990 --> 00:29:27,909  
from the

603  
00:29:33,110 --> 00:29:30,000  
constellation of bright

604  
00:29:36,549 --> 00:29:33,990  
and

605  
00:29:38,830 --> 00:29:36,559  
my children's names start with the

606  
00:29:42,389 --> 00:29:38,840  
letter a that's

607  
00:29:45,350 --> 00:29:42,399  
why i have chosen the brightest

608  
00:30:01,830 --> 00:29:45,360  
constellation it's orange it's called

609  
00:30:08,950 --> 00:30:04,310  
the question was did you call and ask

610  
00:30:12,950 --> 00:30:11,269  
because

611  
00:30:14,950 --> 00:30:12,960  
of him

612  
00:30:16,549 --> 00:30:14,960  
i have experienced

613  
00:30:19,510 --> 00:30:16,559

cosmonauts

614

00:30:23,909 --> 00:30:19,520

vladimir tobe and sergey leona

615

00:30:25,269 --> 00:30:23,919

and of course sergey krikalov

616

00:30:27,190 --> 00:30:25,279

and

617

00:30:29,350 --> 00:30:27,200

nevertheless i called him as my

618

00:30:32,310 --> 00:30:29,360

commander and instructor

619

00:30:35,590 --> 00:30:32,320

and i called my father yes

620

00:30:38,950 --> 00:30:35,600

i told him what goes on on board

621

00:30:41,190 --> 00:30:38,960

what is expected on board and i

622

00:30:42,149 --> 00:30:41,200

and then he would tell me

623

00:30:43,510 --> 00:30:42,159

that

624

00:30:46,389 --> 00:30:43,520

i don't work

625

00:30:49,669 --> 00:30:46,399

hard enough that i have to work better

626

00:30:52,710 --> 00:30:49,679

so he was trying to fish me as a

627

00:30:55,750 --> 00:30:52,720

professional would teach his

628

00:30:55,760 --> 00:30:59,269

and

629

00:31:03,190 --> 00:31:00,950

i took advantage of the fact that i know

630

00:31:06,230 --> 00:31:03,200

sergei perish personally i have called

631

00:31:08,710 --> 00:31:06,240

him and it was

632

00:31:10,310 --> 00:31:08,720

great to talk to him and

633

00:31:13,269 --> 00:31:10,320

i shared

634

00:31:15,110 --> 00:31:13,279

my observations with him

635

00:31:16,950 --> 00:31:15,120

which were very useful

636

00:31:18,630 --> 00:31:16,960

in terms of how the information is

637

00:31:20,230 --> 00:31:18,640

transmitted

638

00:31:21,430 --> 00:31:20,240

and

639

00:31:26,310 --> 00:31:21,440

it was

640

00:31:32,230 --> 00:31:29,190

that he knows exactly what to recommend

641

00:31:35,430 --> 00:31:32,240

what advice to give

642

00:31:37,830 --> 00:31:35,440

and what did you ask your father

643

00:31:41,350 --> 00:31:37,840

at first i complained to him how hard it

644

00:31:43,669 --> 00:31:41,360

is to do physical exercises on board

645

00:31:44,950 --> 00:31:43,679

and he said it was hard for him

646

00:31:46,950 --> 00:31:44,960

as well

647

00:31:49,669 --> 00:31:46,960

and that he was forced

648

00:31:52,070 --> 00:31:49,679

to do that and this is how he was able

649

00:31:53,669 --> 00:31:52,080

to maintain his health

650

00:31:56,149 --> 00:31:53,679

and so

651  
00:31:57,750 --> 00:31:56,159  
that was one of the first discoveries

652  
00:32:00,230 --> 00:31:57,760  
that we were talking about earlier how

653  
00:32:02,789 --> 00:32:00,240  
hard it was to do physical exercises on

654  
00:32:05,350 --> 00:32:02,799  
board it was a great press conference

655  
00:32:08,149 --> 00:32:05,360  
thank you everyone for your questions

656  
00:32:10,230 --> 00:32:08,159  
uh i think it was interesting for to

657  
00:32:12,789 --> 00:32:10,240  
everyone

658  
00:32:14,470 --> 00:32:12,799  
and the traditional picture

659  
00:32:16,710 --> 00:32:14,480  
photos and if

660  
00:32:17,669 --> 00:32:16,720  
anybody has any personal questions go

661  
00:32:32,870 --> 00:32:17,679  
ahead

662  
00:32:32,880 --> 00:32:58,149  
okay

663  
00:33:01,669 --> 00:33:00,149

there's a lot of traditions associated

664

00:33:03,430 --> 00:33:01,679

with the russian program

665

00:33:04,950 --> 00:33:03,440

and stuff so we finished our the big

666

00:33:07,110 --> 00:33:04,960

commissions last week thursday and

667

00:33:08,789 --> 00:33:07,120

friday really big deal we come in and we

668

00:33:10,389 --> 00:33:08,799

stand at attention in front of the board

669

00:33:11,350 --> 00:33:10,399

of the commission and we reported in the

670

00:33:13,350 --> 00:33:11,360

morning

671

00:33:15,350 --> 00:33:13,360

and i did that the first day of

672

00:33:16,870 --> 00:33:15,360

the commander for the space station

673

00:33:18,470 --> 00:33:16,880

and then we go through the full day of

674

00:33:20,070 --> 00:33:18,480

going jumping through the hoops and

675

00:33:21,669 --> 00:33:20,080

running the systems and handling the

676

00:33:23,269 --> 00:33:21,679

emergencies and stuff

677

00:33:24,710 --> 00:33:23,279

and at the end of the day we sit down

678

00:33:26,470 --> 00:33:24,720

with the commission and they've been

679

00:33:28,389 --> 00:33:26,480

watching every detail of what we've been

680

00:33:30,389 --> 00:33:28,399

doing for the entire day

681

00:33:32,149 --> 00:33:30,399

and then they pick us apart i remember

682

00:33:34,149 --> 00:33:32,159

six months ago when you were here and

683

00:33:35,830 --> 00:33:34,159

you've told me that you know

684

00:33:37,110 --> 00:33:35,840

it wasn't your time but now it's your

685

00:33:39,669 --> 00:33:37,120

time and what does it feel like to

686

00:33:41,509 --> 00:33:39,679

finally need this close to launch

687

00:33:43,750 --> 00:33:41,519

you know it's really unbelievable it's

688

00:33:45,750 --> 00:33:43,760

such a long road and you're racing

689

00:33:47,430 --> 00:33:45,760

around the globe it seems like it's been

690

00:33:49,190 --> 00:33:47,440

half of my life jet lag

691

00:33:50,710 --> 00:33:49,200

as we go around the globe and go into

692

00:33:52,549 --> 00:33:50,720

the different things you know when we're

693

00:33:54,470 --> 00:33:52,559

finally we're there we're down to the

694

00:33:55,509 --> 00:33:54,480

last steps now and you know when we went

695

00:33:57,750 --> 00:33:55,519

through the uh

696

00:33:59,590 --> 00:33:57,760

the uh the big qualification exams last

697

00:34:01,269 --> 00:33:59,600

week you know this was the prime crew

698

00:34:03,029 --> 00:34:01,279

and all eyes are on us

699

00:34:04,710 --> 00:34:03,039

and uh making sure we're ready you know

700

00:34:06,549 --> 00:34:04,720

and we are the crew has really come

701  
00:34:07,509 --> 00:34:06,559  
together really well

702  
00:34:10,149 --> 00:34:07,519  
and uh

703  
00:34:11,510 --> 00:34:10,159  
just had a great day in the soyuz sim

704  
00:34:13,510 --> 00:34:11,520  
last friday

705  
00:34:15,430 --> 00:34:13,520  
and nailed it and that's such a great

706  
00:34:17,990 --> 00:34:15,440  
feeling you know i know one of your sons

707  
00:34:19,589 --> 00:34:18,000  
graduated in pilot transformation

708  
00:34:23,349 --> 00:34:19,599  
just a few months ago and what are his

709  
00:34:25,669 --> 00:34:23,359  
thoughts on his dad going up on his own

710  
00:34:27,109 --> 00:34:25,679  
he thinks dad's a little nuts but my

711  
00:34:29,430 --> 00:34:27,119  
kids have grown up

712  
00:34:31,750 --> 00:34:29,440  
you know knowing me in the space program

713  
00:34:33,430 --> 00:34:31,760

and living this dream in the early years

714

00:34:35,190 --> 00:34:33,440

before i was selected

715

00:34:36,470 --> 00:34:35,200

and then going along with this now and

716

00:34:38,230 --> 00:34:36,480

i'm blessed to have

717

00:34:39,750 --> 00:34:38,240

four children you know two of them are

718

00:34:41,510 --> 00:34:39,760

married and a granddaughter now that's

719

00:34:44,389 --> 00:34:41,520

about 10 weeks old

720

00:34:56,550 --> 00:34:44,399

and leaving that little girl behind was

721

00:34:56,560 --> 00:35:20,630

okay

722

00:35:24,790 --> 00:35:23,349

this is a one of the most solemn of the

723

00:35:26,390 --> 00:35:24,800

traditions

724

00:35:28,630 --> 00:35:26,400

for the russian space program and

725

00:35:30,630 --> 00:35:28,640

preparing to go fly is a visit to red

726

00:35:32,950 --> 00:35:30,640

square what we have behind me is the

727

00:35:35,030 --> 00:35:32,960

wall of the kremlin these are the heroes

728

00:35:37,829 --> 00:35:35,040

of the soviet union and heroes of russia

729

00:35:39,270 --> 00:35:37,839

with great distinction who are actually

730

00:35:41,270 --> 00:35:39,280

their ashes are entombed here in the

731

00:35:44,470 --> 00:35:41,280

wall of the kremlin we come by to put

732

00:35:46,470 --> 00:35:44,480

flowers on the graves of yuri gagarin

733

00:35:49,190 --> 00:35:46,480

and corolla

734

00:35:51,430 --> 00:35:49,200

sergey corolla to honor them as the

735

00:35:53,030 --> 00:35:51,440

pioneers of the space program and we

736

00:35:54,790 --> 00:35:53,040

really walk in their shadows and stand

737

00:35:57,510 --> 00:35:54,800

on their shoulders as we're reaching up

738

00:35:59,990 --> 00:35:57,520

to space so it's a really a neat thing

739

00:36:02,310 --> 00:36:00,000

to participate in as an american you

740

00:36:05,109 --> 00:36:02,320

know we recognize the achievements of

741

00:36:07,190 --> 00:36:05,119

our russian comrades and the uh the

742

00:36:08,950 --> 00:36:07,200

other pioneers and travelers who came

743

00:36:22,230 --> 00:36:08,960

before us it's a really an honor to be

744

00:36:22,240 --> 00:36:35,750

hello

745

00:36:35,760 --> 00:37:02,710

um

746

00:37:02,720 --> 00:37:32,950

if you like as well

747

00:37:37,030 --> 00:37:34,790

mike what are your feelings today on

748

00:37:39,030 --> 00:37:37,040

visiting this historic area here

749

00:37:41,270 --> 00:37:39,040

oh we're inside the kremlin walls here

750

00:37:43,270 --> 00:37:41,280

and it's it's a it's a place of such

751

00:37:45,190 --> 00:37:43,280

historical significance

752

00:37:47,190 --> 00:37:45,200

really our red square area downtown

753

00:37:48,950 --> 00:37:47,200

moscow is one of the most famous places

754

00:37:51,190 --> 00:37:48,960

the most recognizable places on the

755

00:38:05,109 --> 00:37:51,200

planet and you know

756

00:38:08,310 --> 00:38:07,589

on display here and so every crew comes

757

00:38:11,109 --> 00:38:08,320

here

758

00:38:13,430 --> 00:38:11,119

just to visit to touch these things of

759

00:38:15,270 --> 00:38:13,440

natural historical significance

760

00:38:16,230 --> 00:38:15,280

and to take our picture here it's just

761

00:38:22,950 --> 00:38:16,240

part of

762

00:38:24,790 --> 00:38:22,960

the progression that we have as we move

763

00:38:30,790 --> 00:38:24,800

closer and closer to launch to take part

764

00:38:30,800 --> 00:38:44,310

that's