



**Сергей КРИКАЛЕВ**  
Sergei KRİKALYOV



1  
00:00:10,480 --> 00:00:13,350  
hello again

2  
00:00:18,710 --> 00:00:15,509  
let's begin the breast confirmation

3  
00:00:20,870 --> 00:00:18,720  
for the 29th expedition

4  
00:00:24,230 --> 00:00:20,880  
flight to the space station

5  
00:00:26,150 --> 00:00:24,240  
first let us introduce the crew

6  
00:00:27,910 --> 00:00:26,160  
anton shkaplerov

7  
00:00:31,269 --> 00:00:27,920  
commander

8  
00:00:33,670 --> 00:00:31,279  
and flight engineer for the station

9  
00:00:36,630 --> 00:00:33,680  
on television

10  
00:00:39,750 --> 00:00:36,640  
from the russian space station

11  
00:00:58,630 --> 00:00:39,760  
he will be a flight engineer on iss

12  
00:01:03,189 --> 00:01:00,869  
russian flight engineer

13  
00:01:05,590 --> 00:01:03,199

and flight engineer for the iss

14

00:01:09,670 --> 00:01:05,600

a nasa astronaut

15

00:01:24,950 --> 00:01:09,680

a flight engineer and commander

16

00:01:33,670 --> 00:01:28,469

to for the preparedness of the flight

17

00:01:37,429 --> 00:01:35,510

we have already performed the commission

18

00:01:39,350 --> 00:01:37,439

for the flight readiness of the crew the

19

00:01:40,550 --> 00:01:39,360

korea has already performed most of

20

00:01:41,990 --> 00:01:40,560

their

21

00:01:45,350 --> 00:01:42,000

training

22

00:01:46,310 --> 00:01:45,360

of the

23

00:01:47,670 --> 00:01:46,320

training

24

00:01:49,990 --> 00:01:47,680

stations

25

00:01:52,389 --> 00:01:50,000

and a few days after that the commission

26  
00:01:54,469 --> 00:01:52,399  
is taken and the crew begins the next

27  
00:01:56,870 --> 00:01:54,479  
stage of training already on the

28  
00:01:58,630 --> 00:01:56,880  
baikonur cosmodrome now we've had a

29  
00:02:02,469 --> 00:01:58,640  
little bit of a hold up with the

30  
00:02:05,109 --> 00:02:02,479  
accident of the progress cargo vehicle

31  
00:02:07,510 --> 00:02:05,119  
it is necessary to determine the final

32  
00:02:08,630 --> 00:02:07,520  
causes of this accident

33  
00:02:10,630 --> 00:02:08,640  
we've had

34  
00:02:13,190 --> 00:02:10,640  
i needed to have some additional time to

35  
00:02:16,150 --> 00:02:13,200  
make the decision about the launch

36  
00:02:21,030 --> 00:02:16,160  
as you know the launch was slipped back

37  
00:02:25,270 --> 00:02:23,830  
based on the results of the commission

38  
00:02:27,910 --> 00:02:25,280

the crew

39

00:02:30,070 --> 00:02:27,920

is determined to be

40

00:02:31,509 --> 00:02:30,080

to have performed the first stage of

41

00:02:33,430 --> 00:02:31,519

training and the combination has been

42

00:02:36,150 --> 00:02:33,440

given to prepare the final stage of

43

00:02:37,270 --> 00:02:36,160

training on the baikonur cosmodrome as

44

00:02:39,589 --> 00:02:37,280

you will

45

00:02:41,910 --> 00:02:39,599

know cosmonauts usually arrive at the

46

00:02:44,309 --> 00:02:41,920

cosmodrome and then begin

47

00:02:46,550 --> 00:02:44,319

their final training for the program the

48

00:02:48,070 --> 00:02:46,560

flight program

49

00:02:50,390 --> 00:02:48,080

the first stage is ready and now the

50

00:02:53,110 --> 00:02:50,400

crew begins the next stage

51  
00:02:54,710 --> 00:02:53,120  
a few days later already on the concert

52  
00:02:57,190 --> 00:02:54,720  
room

53  
00:02:58,470 --> 00:02:57,200  
this is planned for the 31st as far as i

54  
00:03:00,630 --> 00:02:58,480  
understand

55  
00:03:02,710 --> 00:03:00,640  
uh yes the 31st they will fly to

56  
00:03:05,190 --> 00:03:02,720  
baikonur and just trying to answer some

57  
00:03:07,030 --> 00:03:05,200  
of the questions that you may have what

58  
00:03:08,710 --> 00:03:07,040  
about what has the group been doing all

59  
00:03:11,589 --> 00:03:08,720  
this time

60  
00:03:14,309 --> 00:03:11,599  
since the launch of the vehicle has

61  
00:03:15,190 --> 00:03:14,319  
was slipped a little bit

62  
00:03:17,030 --> 00:03:15,200  
and

63  
00:03:19,190 --> 00:03:17,040

since there was a slight extension of

64

00:03:21,350 --> 00:03:19,200

the crew on board that is on board right

65

00:03:22,949 --> 00:03:21,360

now but it's just a few

66

00:03:25,270 --> 00:03:22,959

days just a week

67

00:03:27,830 --> 00:03:25,280

so the amount of time that the cruise

68

00:03:30,070 --> 00:03:27,840

will be together has decreased and so

69

00:03:31,350 --> 00:03:30,080

we've had some

70

00:03:34,149 --> 00:03:31,360

extra time

71

00:03:35,589 --> 00:03:34,159

right now before the career rise to

72

00:03:40,869 --> 00:03:35,599

baikonur

73

00:03:42,550 --> 00:03:40,879

preparing for the handover because they

74

00:03:45,990 --> 00:03:42,560

will have a little bit less time of the

75

00:03:48,070 --> 00:03:46,000

handover right on station

76

00:03:51,110 --> 00:03:48,080

so as a result we've added additional

77

00:03:53,030 --> 00:03:51,120

training for the handover

78

00:03:54,869 --> 00:03:53,040

they've been speaking with the crews

79

00:03:57,110 --> 00:03:54,879

that have been already on station the

80

00:03:58,550 --> 00:03:57,120

previous crews that were there to get a

81

00:04:02,550 --> 00:03:58,560

better

82

00:04:05,509 --> 00:04:02,560

handover is going to happen

83

00:04:07,990 --> 00:04:05,519

but this is nothing new we've had this a

84

00:04:09,910 --> 00:04:08,000

short period of handover

85

00:04:12,149 --> 00:04:09,920

several times over the last few days and

86

00:04:16,870 --> 00:04:12,159

also i participated several times in a

87

00:04:21,110 --> 00:04:18,949

and so in this case the crisp and

88

00:04:23,270 --> 00:04:21,120

prepared even better

89

00:04:26,150 --> 00:04:23,280

for the handover while still on the

90

00:04:27,430 --> 00:04:26,160

ground these are just some general words

91

00:04:32,230 --> 00:04:27,440

if you have more specific questions

92

00:04:35,510 --> 00:04:33,110

so

93

00:04:37,430 --> 00:04:35,520

uh gentlemen first of all i want to let

94

00:04:39,749 --> 00:04:37,440

you know that i i want to congratulate

95

00:04:42,870 --> 00:04:39,759

you with this flight that you are ready

96

00:04:44,629 --> 00:04:42,880

to go

97

00:04:46,310 --> 00:04:44,639

and i know there are some changes there

98

00:04:47,830 --> 00:04:46,320

are some changes and

99

00:04:48,790 --> 00:04:47,840

congratulations that everything went

100

00:04:50,790 --> 00:04:48,800

well

101  
00:04:53,270 --> 00:04:50,800  
and here's the traditional question

102  
00:04:54,390 --> 00:04:53,280  
about the talisman what are you taking

103  
00:04:56,550 --> 00:04:54,400  
with us

104  
00:05:01,670 --> 00:04:56,560  
and if your friends and family will be

105  
00:05:06,070 --> 00:05:03,909  
yes there is a tradition we're all

106  
00:05:08,629 --> 00:05:06,080  
taking small talismans with us

107  
00:05:11,830 --> 00:05:08,639  
i'm taking a little toy

108  
00:05:12,870 --> 00:05:11,840  
that my little daughter gave me

109  
00:05:15,430 --> 00:05:12,880  
it is

110  
00:05:20,870 --> 00:05:15,440  
it will play the role of a zero gravity

111  
00:05:24,390 --> 00:05:23,350  
in the habitation module and then after

112  
00:05:28,390 --> 00:05:24,400  
the launch

113  
00:05:31,590 --> 00:05:28,400

once we reach space in about 10 minutes

114

00:05:34,150 --> 00:05:31,600

once this little toy starts flying

115

00:05:36,550 --> 00:05:34,160

uh it will tell us that we have reached

116

00:05:38,550 --> 00:05:36,560

zero gravity we are in space

117

00:05:40,550 --> 00:05:38,560

um this is a good luck charm to show

118

00:05:43,749 --> 00:05:40,560

that the lunch for the

119

00:05:45,909 --> 00:05:43,759

for the lunch to go safe this is a small

120

00:05:49,670 --> 00:05:45,919

a small toy

121

00:05:52,150 --> 00:05:49,680

it's like a a small little birdie

122

00:05:54,070 --> 00:05:52,160

it's it's kind of a cute little thing

123

00:05:56,070 --> 00:05:54,080

the dog my daughter really loved it and

124

00:05:58,070 --> 00:05:56,080

so she asked me to take it along with me

125

00:06:00,550 --> 00:05:58,080

to space and of course to bring it back

126  
00:06:00,560 --> 00:06:05,110  
and what else are you taking

127  
00:06:09,990 --> 00:06:07,430  
i also

128  
00:06:12,469 --> 00:06:10,000  
had the opportunity to take

129  
00:06:14,390 --> 00:06:12,479  
a small icon that was given in

130  
00:06:17,110 --> 00:06:14,400  
sevastopol

131  
00:06:19,510 --> 00:06:17,120  
um this is the place where there's the

132  
00:06:22,150 --> 00:06:19,520  
vladimir cathedral

133  
00:06:24,790 --> 00:06:22,160  
it's a special place because based on

134  
00:06:24,800 --> 00:06:28,870  
in the orthodox faith

135  
00:06:35,670 --> 00:06:30,150  
the ruler

136  
00:06:36,469 --> 00:06:35,680  
name is vladimir

137  
00:06:38,629 --> 00:06:36,479  
so

138  
00:06:45,110 --> 00:06:38,639

you can say that that was the birthplace

139

00:06:50,550 --> 00:06:48,150

the priest in charge of the

140

00:06:52,390 --> 00:06:50,560

of this cathedral he gave me personally

141

00:06:54,870 --> 00:06:52,400

the icon so that

142

00:06:57,990 --> 00:06:54,880

the icon would bless our trip it would

143

00:07:14,150 --> 00:06:58,000

bless our our launch and i will also

144

00:07:20,629 --> 00:07:17,029

if we use uh

145

00:07:23,430 --> 00:07:20,639

one of if we use his zero gravity

146

00:07:24,390 --> 00:07:23,440

indicator because i haven't had any

147

00:07:27,270 --> 00:07:24,400

um

148

00:07:29,189 --> 00:07:27,280

toys in a while my son is pretty old

149

00:07:30,629 --> 00:07:29,199

and all the toys that he's used they're

150

00:07:33,350 --> 00:07:30,639

pretty heavy

151  
00:07:34,870 --> 00:07:33,360  
so i won't be able to use them as for me

152  
00:07:37,510 --> 00:07:34,880  
i'm taking

153  
00:07:39,189 --> 00:07:37,520  
just some

154  
00:07:44,150 --> 00:07:39,199  
some pictures some images that i'll be

155  
00:07:48,790 --> 00:07:46,150  
i think this is a very good tradition

156  
00:07:50,710 --> 00:07:48,800  
that you've had

157  
00:07:51,749 --> 00:07:50,720  
oh we've done this on the shuttle as

158  
00:07:53,430 --> 00:07:51,759  
well

159  
00:07:55,270 --> 00:07:53,440  
i will have with me

160  
00:07:56,790 --> 00:07:55,280  
some photographs of my family and

161  
00:07:59,510 --> 00:07:56,800  
friends

162  
00:08:04,230 --> 00:07:59,520  
and a few flags small flags uh emblems

163  
00:08:08,629 --> 00:08:05,909

i think all of these are really

164

00:08:11,589 --> 00:08:08,639

important for us to to

165

00:08:13,749 --> 00:08:11,599

to stay connected and remember um all

166

00:08:14,950 --> 00:08:13,759

the folks that are here on the earth

167

00:08:17,350 --> 00:08:14,960

that are supporting us during the

168

00:08:18,869 --> 00:08:17,360

mission it get uh it's a physical

169

00:08:21,350 --> 00:08:18,879

representation of

170

00:08:22,629 --> 00:08:21,360

those that we love and care about and

171

00:08:24,629 --> 00:08:22,639

a great place to put a lot of those

172

00:08:32,949 --> 00:08:24,639

things around the the walls of the crew

173

00:08:37,990 --> 00:08:35,589

well i just want to add that this

174

00:08:40,630 --> 00:08:38,000

this toy is not just an indicator of

175

00:08:43,110 --> 00:08:40,640

zero gravity but also of an overload

176

00:08:46,470 --> 00:08:43,120

because i don't know if you noticed

177

00:08:48,470 --> 00:08:46,480

as the toy swings

178

00:08:51,670 --> 00:08:48,480

you can tell by the frequency of the

179

00:08:53,509 --> 00:08:51,680

swings whether there's an overload

180

00:08:56,949 --> 00:08:53,519

for example between

181

00:08:58,470 --> 00:08:56,959

the switch from one stage of flight to

182

00:09:00,470 --> 00:08:58,480

the second stage

183

00:09:01,350 --> 00:09:00,480

the first information that you get is to

184

00:09:05,030 --> 00:09:01,360

see

185

00:09:07,590 --> 00:09:05,040

how the vehicle is doing based on what

186

00:09:10,150 --> 00:09:07,600

the motion of the little toy is telling

187

00:09:11,829 --> 00:09:10,160

you since this launch is happening a bit

188

00:09:13,269 --> 00:09:11,839

later in november the one that was

189

00:09:15,269 --> 00:09:13,279

initially planned for november will be

190

00:09:17,829 --> 00:09:15,279

happening in december

191

00:09:19,509 --> 00:09:17,839

um these gentlemen will be

192

00:09:22,790 --> 00:09:19,519

flying alone

193

00:09:24,470 --> 00:09:22,800

just a three person crew until uh mid

194

00:09:25,430 --> 00:09:24,480

december when the second crew will

195

00:09:27,509 --> 00:09:25,440

arrive

196

00:09:30,150 --> 00:09:27,519

so the plan to have to return back to

197

00:09:33,670 --> 00:09:30,160

six person crew is by

198

00:09:38,230 --> 00:09:35,910

and so we've had a little bit of a slip

199

00:09:40,710 --> 00:09:38,240

and a lot of our plans but since there's

200

00:09:42,310 --> 00:09:40,720

launching a bit later

201  
00:09:44,310 --> 00:09:42,320  
the flight will also be a little bit

202  
00:09:49,430 --> 00:09:44,320  
shorter to get back to the standard

203  
00:09:54,070 --> 00:09:51,590  
so i have a question about the

204  
00:09:57,269 --> 00:09:54,080  
plans for all the science experiments

205  
00:09:58,550 --> 00:09:57,279  
that are planned for you

206  
00:10:00,389 --> 00:09:58,560  
what do you think

207  
00:10:04,710 --> 00:10:00,399  
is the most interesting experiment plan

208  
00:10:10,790 --> 00:10:07,190  
yes there are a lot of experiments

209  
00:10:11,590 --> 00:10:10,800  
about 50 experiments per crew member

210  
00:10:14,389 --> 00:10:11,600  
uh

211  
00:10:16,389 --> 00:10:14,399  
because there's about 200

212  
00:10:17,910 --> 00:10:16,399  
experiments on station i think one of

213  
00:10:23,910 --> 00:10:17,920

the most interesting for me will be an

214

00:10:29,110 --> 00:10:26,870

this will be performed on the progress

215

00:10:32,389 --> 00:10:29,120

that will be docked to the station

216

00:10:37,910 --> 00:10:33,350

to

217

00:10:42,470 --> 00:10:39,590

there will be

218

00:10:44,790 --> 00:10:42,480

a special container

219

00:10:48,790 --> 00:10:44,800

which will contain a satellite which is

220

00:10:51,750 --> 00:10:48,800

called um which is the experiment chebus

221

00:10:52,870 --> 00:10:51,760

so after undocking

222

00:10:55,509 --> 00:10:52,880

the

223

00:10:58,470 --> 00:10:55,519

progress vehicle will be about 500

224

00:11:00,870 --> 00:10:58,480

kilometers away from station at a point

225

00:11:02,870 --> 00:11:00,880

at which the

226

00:11:05,110 --> 00:11:02,880

this container with the satellite inside

227

00:11:07,509 --> 00:11:05,120

will be launched away from the shuttle

228

00:11:10,550 --> 00:11:07,519

it will orbit around the earth as the

229

00:11:13,509 --> 00:11:10,560

progress moves into earth

230

00:11:15,350 --> 00:11:13,519

this is only just the second the type of

231

00:11:17,430 --> 00:11:15,360

this experiment the first experiment

232

00:11:18,710 --> 00:11:17,440

similar to this was much smaller

233

00:11:20,949 --> 00:11:18,720

so i think this would be a lot more

234

00:11:24,310 --> 00:11:20,959

interesting our task will be to install

235

00:11:26,389 --> 00:11:24,320

very carefully the experiment so that

236

00:11:29,190 --> 00:11:26,399

the docking and undocking of the

237

00:11:30,550 --> 00:11:29,200

progress would go nominally

238

00:11:31,910 --> 00:11:30,560

and we've got

239

00:11:33,190 --> 00:11:31,920

i think we've already said we've got

240

00:11:34,949 --> 00:11:33,200

several hundred experiments that'll be

241

00:11:36,069 --> 00:11:34,959

done during our time onboard space

242

00:11:37,910 --> 00:11:36,079

station

243

00:11:40,630 --> 00:11:37,920

for me some of the most interesting

244

00:11:42,230 --> 00:11:40,640

although not necessarily the most

245

00:11:44,310 --> 00:11:42,240

enjoyable because often we're the

246

00:11:46,230 --> 00:11:44,320

subjects for them but some of the most

247

00:11:47,430 --> 00:11:46,240

interesting are the ones that

248

00:11:49,750 --> 00:11:47,440

that study

249

00:11:52,870 --> 00:11:49,760

how human beings adapt to spaceflight

250

00:11:55,269 --> 00:11:52,880

and these experiments take a global look

251

00:11:56,870 --> 00:11:55,279

at how the human organism

252

00:11:58,629 --> 00:11:56,880

changes in space

253

00:12:00,389 --> 00:11:58,639

a lot of those changes are very similar

254

00:12:02,550 --> 00:12:00,399

to some of the changes

255

00:12:04,870 --> 00:12:02,560

that people experience here on planet

256

00:12:07,829 --> 00:12:04,880

earth during the normal aging process so

257

00:12:09,430 --> 00:12:07,839

to me these represent ways that we can

258

00:12:12,069 --> 00:12:09,440

get direct benefit from the space

259

00:12:14,629 --> 00:12:12,079

station that helps people here on earth

260

00:12:15,509 --> 00:12:14,639

but uh also from the perspective

261

00:12:20,069 --> 00:12:15,519

of a

262

00:12:22,389 --> 00:12:20,079

represents a way that we can make space

263

00:12:31,110 --> 00:12:22,399

flight safer so that we can become

264

00:12:36,150 --> 00:12:33,590

for two of you

265

00:12:37,350 --> 00:12:36,160

this is your first flight all all kids

266

00:12:41,910 --> 00:12:37,360

dream of being

267

00:12:45,590 --> 00:12:41,920

you have you ever dreamed about being a

268

00:12:50,150 --> 00:12:48,150

well i i think that it is

269

00:12:52,230 --> 00:12:50,160

it's not something that i've i've

270

00:12:54,150 --> 00:12:52,240

dreamed about particularly i see it as

271

00:12:59,750 --> 00:12:54,160

an important step in our career an

272

00:13:04,389 --> 00:13:01,590

and when i look back

273

00:13:08,310 --> 00:13:04,399

i've i've been coming to this to this

274

00:13:12,949 --> 00:13:11,430

but i think that once i see earth from

275

00:13:14,790 --> 00:13:12,959

the space station for the first time

276

00:13:16,949 --> 00:13:14,800

then i will really feel this

277

00:13:18,870 --> 00:13:16,959

accomplishment i'll understand how

278

00:13:20,949 --> 00:13:18,880

important it is

279

00:13:22,870 --> 00:13:20,959

as for me i don't want to disappoint

280

00:13:24,949 --> 00:13:22,880

everyone but i i have dreamed of being a

281

00:13:27,590 --> 00:13:24,959

pilot all my life

282

00:13:29,190 --> 00:13:27,600

i remember a moment when i was in about

283

00:13:32,710 --> 00:13:29,200

10th grade

284

00:13:35,269 --> 00:13:32,720

we had some uh class

285

00:13:37,350 --> 00:13:35,279

i think i think it had to do with the

286

00:13:38,230 --> 00:13:37,360

psychology of family life

287

00:13:39,430 --> 00:13:38,240

and

288

00:13:41,430 --> 00:13:39,440

there we had

289

00:13:45,269 --> 00:13:41,440  
couples a boy and a girl

290

00:13:46,470 --> 00:13:45,279  
and they had to develop a family

291

00:13:48,470 --> 00:13:46,480  
and

292

00:13:52,550 --> 00:13:48,480  
all of my

293

00:13:54,550 --> 00:13:52,560  
expected and they said that they're

294

00:13:59,990 --> 00:13:54,560  
going to be engineers and i said well i

295

00:14:06,069 --> 00:14:02,949  
and we were very successful because as

296

00:14:07,590 --> 00:14:06,079  
as my pretend family

297

00:14:11,110 --> 00:14:07,600  
because i was a customer that was never

298

00:14:11,120 --> 00:14:14,310  
thank you very much

299

00:14:18,389 --> 00:14:16,310  
we would like to invite mr nikolai buddy

300

00:14:20,710 --> 00:14:18,399  
switch from the federation of

301  
00:14:23,590 --> 00:14:20,720  
cosmonautics

302  
00:14:26,069 --> 00:14:23,600  
he has brought two gifts for the two

303  
00:14:29,430 --> 00:14:26,079  
cosmonauts flying for the first time

304  
00:14:32,550 --> 00:14:29,440  
first of all i'd like to congratulate

305  
00:14:33,750 --> 00:14:32,560  
you on behalf of the president of the

306  
00:14:37,189 --> 00:14:33,760  
federation

307  
00:14:39,110 --> 00:14:37,199  
of cosmonauts of russia mr kovalev

308  
00:14:41,110 --> 00:14:39,120  
for the completion of the training for

309  
00:14:43,430 --> 00:14:41,120  
the upcoming flight

310  
00:14:46,470 --> 00:14:43,440  
and in accordance

311  
00:14:48,629 --> 00:14:46,480  
with the international flight earned the

312  
00:14:50,629 --> 00:14:48,639  
organization field

313  
00:14:51,990 --> 00:14:50,639

all crew members who are getting ready

314

00:14:54,710 --> 00:14:52,000

for their first

315

00:14:57,110 --> 00:14:54,720

flight they are to receive a special

316

00:14:58,790 --> 00:14:57,120

identification card an international

317

00:15:01,189 --> 00:14:58,800

identification card

318

00:15:02,470 --> 00:15:01,199

and these were prepared for

319

00:15:04,310 --> 00:15:02,480

the two

320

00:15:07,430 --> 00:15:04,320

uh quarterfly

321

00:15:09,430 --> 00:15:07,440

anton shkaplerov and

322

00:15:11,350 --> 00:15:09,440

antoine venetian

323

00:15:13,269 --> 00:15:11,360

these two german are getting ready for

324

00:15:13,910 --> 00:15:13,279

their first flight

325

00:15:15,350 --> 00:15:13,920

and

326

00:15:17,189 --> 00:15:15,360

so i'd like to give these two

327

00:15:19,670 --> 00:15:17,199

certifications for them

328

00:15:22,949 --> 00:15:19,680

number 135 for

329

00:15:24,230 --> 00:15:22,959

anton shkaplerov and 136

330

00:15:34,310 --> 00:15:24,240

for

331

00:15:34,320 --> 00:15:38,150

thank you thank you so much

332

00:15:38,160 --> 00:15:45,509

thank you

333

00:15:50,550 --> 00:15:48,389

they will take these ids with them

334

00:15:55,430 --> 00:15:50,560

and they will take them with them on all

335

00:15:59,509 --> 00:15:56,949

i'd like to note

336

00:16:01,910 --> 00:15:59,519

that this certification it has

337

00:16:04,550 --> 00:16:01,920

international immunity it is in five

338

00:16:07,350 --> 00:16:04,560

languages written there is a statement

339

00:16:08,629 --> 00:16:07,360

in five languages on the last page

340

00:16:11,509 --> 00:16:08,639

with a request

341

00:16:14,230 --> 00:16:11,519

to provide all sorts of support

342

00:16:17,350 --> 00:16:14,240

to the owner of the certification

343

00:16:19,590 --> 00:16:17,360

and i would just like to

344

00:16:20,949 --> 00:16:19,600

say that i will be

345

00:16:24,310 --> 00:16:20,959

supporting you

346

00:16:31,670 --> 00:16:24,320

from down here from 450 kilometers below

347

00:16:36,069 --> 00:16:33,829

and just to add on to what the crew will

348

00:16:37,590 --> 00:16:36,079

be taking with us with them this is

349

00:16:39,269 --> 00:16:37,600

actually the only

350

00:16:41,350 --> 00:16:39,279

identification

351

00:16:44,470 --> 00:16:41,360

that the crew members will be taking

352

00:16:48,629 --> 00:16:44,480

with them to flight

353

00:16:50,389 --> 00:16:48,639

i also received such a certification

354

00:16:53,030 --> 00:16:50,399

a long time ago before my first flight

355

00:16:55,269 --> 00:16:53,040

and six times it's come with me so i

356

00:16:57,269 --> 00:16:55,279

hope that they will also take it along

357

00:16:58,470 --> 00:16:57,279

and there will be long history written

358

00:17:00,310 --> 00:16:58,480

up in those

359

00:17:04,549 --> 00:17:00,320

thank you next question

360

00:17:06,870 --> 00:17:04,559

to fly on this flight particularly and

361

00:17:08,470 --> 00:17:06,880

if anything the crash of the progress

362

00:17:11,829 --> 00:17:08,480

showed the

363

00:17:13,350 --> 00:17:11,839

continuing risks of flying to space why

364

00:17:17,590 --> 00:17:13,360

is it

365

00:17:19,270 --> 00:17:17,600

space faring people like you said

366

00:17:20,789 --> 00:17:19,280

i think that uh that we've learned

367

00:17:22,710 --> 00:17:20,799

something recently

368

00:17:24,150 --> 00:17:22,720

and we've relearned this lesson many

369

00:17:26,150 --> 00:17:24,160

times over the years and that is that

370

00:17:27,189 --> 00:17:26,160

space flight is very difficult

371

00:17:29,590 --> 00:17:27,199

it's one of the hardest things that

372

00:17:31,270 --> 00:17:29,600

human beings have ever tried to do

373

00:17:34,870 --> 00:17:31,280

and it's going to continue to be that

374

00:17:37,350 --> 00:17:34,880

way for for quite a long time to come

375

00:17:39,510 --> 00:17:37,360

but i really believe that that it's

376

00:17:40,390 --> 00:17:39,520

humanity's destiny to fly in space this

377

00:17:44,549 --> 00:17:40,400

is

378

00:17:45,669 --> 00:17:44,559

by overcoming the challenges that we

379

00:17:48,310 --> 00:17:45,679

have

380

00:17:50,470 --> 00:17:48,320

that the space program gets safer

381

00:17:52,150 --> 00:17:50,480

the soyuz rockets will be safer than

382

00:17:54,630 --> 00:17:52,160

they've ever been

383

00:17:56,390 --> 00:17:54,640

the space shuttle after our experiences

384

00:17:58,150 --> 00:17:56,400

with challenger and then with colombia

385

00:17:59,110 --> 00:17:58,160

became safer than they had ever been

386

00:18:01,669 --> 00:17:59,120

before

387

00:18:04,150 --> 00:18:01,679

and with each of these things we make

388

00:18:06,070 --> 00:18:04,160

space flight in general safer and

389

00:18:08,230 --> 00:18:06,080

that's a normal process

390

00:18:09,990 --> 00:18:08,240

and it's a good opportunity for us to

391

00:18:13,110 --> 00:18:10,000

work together all the partners of space

392

00:18:15,029 --> 00:18:13,120

station as as human beings in this great

393

00:18:16,150 --> 00:18:15,039

endeavor

394

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

so in general right now i think we've

395

00:18:20,630 --> 00:18:18,400

got a great opportunity to build a whole

396

00:18:23,110 --> 00:18:20,640

host of new vehicles that'll get us to

397

00:18:25,270 --> 00:18:23,120

space in many different ways

398

00:18:26,789 --> 00:18:25,280

i believe that we'll continue to explore

399

00:18:28,549 --> 00:18:26,799

space and we'll do it better and better

400

00:18:29,430 --> 00:18:28,559

and we'll do it together

401  
00:18:35,110 --> 00:18:29,440  
and

402  
00:18:36,630 --> 00:18:35,120  
friends

403  
00:18:38,789 --> 00:18:36,640  
and to

404  
00:18:39,990 --> 00:18:38,799  
to help

405  
00:18:41,990 --> 00:18:40,000  
continue

406  
00:18:44,710 --> 00:18:42,000  
the voyage that we've all set out in

407  
00:18:46,710 --> 00:18:44,720  
spaceflight so so human beings should do

408  
00:18:48,630 --> 00:18:46,720  
this we will do this we'll do it better

409  
00:18:49,990 --> 00:18:48,640  
and better and at the risk of being too

410  
00:18:52,549 --> 00:18:50,000  
long-winded here let me just say one

411  
00:18:54,390 --> 00:18:52,559  
thing as an example a concrete example

412  
00:18:55,990 --> 00:18:54,400  
about how we made how we learned from

413  
00:18:57,590 --> 00:18:56,000

this lesson and actually made things

414

00:18:59,669 --> 00:18:57,600

better

415

00:19:02,390 --> 00:18:59,679

ordinarily we have two months or four

416

00:19:04,710 --> 00:19:02,400

months of handover time on orbit this

417

00:19:07,029 --> 00:19:04,720

time we have maybe five days

418

00:19:09,029 --> 00:19:07,039

but in fact because of the situation

419

00:19:11,270 --> 00:19:09,039

that hand over time has already begun we

420

00:19:13,430 --> 00:19:11,280

have spent the last six weeks uh

421

00:19:15,350 --> 00:19:13,440

training working with the crew onboard

422

00:19:17,510 --> 00:19:15,360

space station through video conferences

423

00:19:20,070 --> 00:19:17,520

through phone calls through downlink

424

00:19:21,909 --> 00:19:20,080

video so we in this in essence i think

425

00:19:24,230 --> 00:19:21,919

are better prepared now than we probably

426  
00:19:26,789 --> 00:19:24,240  
would have been had we had the limited

427  
00:19:28,710 --> 00:19:26,799  
time that we ordinarily have on board to

428  
00:19:30,390 --> 00:19:28,720  
work together we

429  
00:19:33,430 --> 00:19:30,400  
anton and anatoly are talking with

430  
00:19:35,590 --> 00:19:33,440  
sergey a couple of times a day and uh

431  
00:19:38,310 --> 00:19:35,600  
and i'm also working with with mike and

432  
00:19:39,669 --> 00:19:38,320  
satoshi learning about the us segment

433  
00:19:41,590 --> 00:19:39,679  
systems

434  
00:19:43,430 --> 00:19:41,600  
and i've got dozens of hours of

435  
00:19:49,029 --> 00:19:43,440  
videotape that show me just how to

436  
00:19:54,070 --> 00:19:51,029  
we have another question for daniel so

437  
00:19:55,270 --> 00:19:54,080  
you're flying on the soyuz for the first

438  
00:19:57,270 --> 00:19:55,280

time

439

00:19:58,789 --> 00:19:57,280

as opposed to the shuttle what are the

440

00:20:01,110 --> 00:19:58,799

similarities and the differences between

441

00:20:02,870 --> 00:20:01,120

the shuttle and the soyuz the to me the

442

00:20:04,950 --> 00:20:02,880

soyuz is like a sports car where the

443

00:20:06,870 --> 00:20:04,960

shuttle is like a uh

444

00:20:08,230 --> 00:20:06,880

an 18-wheeler and

445

00:20:11,350 --> 00:20:08,240

i'm very much looking forward to the

446

00:20:14,070 --> 00:20:11,360

ride uphill on the soyuz and

447

00:20:16,470 --> 00:20:14,080

i think it'll be maybe

448

00:20:19,029 --> 00:20:16,480

a little bit it'll be less room to move

449

00:20:22,149 --> 00:20:19,039

about in on board

450

00:20:24,710 --> 00:20:22,159

used before we dock but uh but i have

451  
00:20:28,470 --> 00:20:24,720  
since i began my career with nasa i've

452  
00:20:30,390 --> 00:20:28,480  
always wanted to fly on a rocket uh like

453  
00:20:32,710 --> 00:20:30,400  
in a small vehicle like the soyuz so i'm

454  
00:20:35,110 --> 00:20:32,720  
very much looking forward to it and

455  
00:20:36,710 --> 00:20:35,120  
that hasn't changed a bit uh within

456  
00:20:47,029 --> 00:20:36,720  
light of recent events over the past

457  
00:20:52,710 --> 00:20:49,590  
during your flight on iss there will be

458  
00:20:56,710 --> 00:20:52,720  
a small anniversary

459  
00:20:58,149 --> 00:20:56,720  
the iss will have the 75th

460  
00:20:59,190 --> 00:20:58,159  
75

461  
00:21:01,029 --> 00:20:59,200  
000th

462  
00:21:03,430 --> 00:21:01,039  
orbit around

463  
00:21:04,789 --> 00:21:03,440

earth how are you planning to celebrate

464

00:21:06,870 --> 00:21:04,799

this

465

00:21:09,350 --> 00:21:06,880

well i think we'll celebrate celebrating

466

00:21:11,510 --> 00:21:09,360

our own little space way

467

00:21:13,110 --> 00:21:11,520

maybe we'll have a family gathering

468

00:21:18,549 --> 00:21:13,120

around

469

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

we'll open up our bonus containers have

470

00:21:28,549 --> 00:21:23,440

some special food

471

00:21:32,870 --> 00:21:30,390

and of course we'll try to

472

00:21:34,630 --> 00:21:32,880

send our hellos to those who are on the

473

00:21:36,950 --> 00:21:34,640

ground who are continuing to support

474

00:21:39,510 --> 00:21:36,960

station from the ground who continue

475

00:21:41,190 --> 00:21:39,520

the cosmonaut training we'll send our

476  
00:21:51,669 --> 00:21:41,200  
best to the customers who've already

477  
00:21:54,870 --> 00:21:53,430  
you're probably wondering what has been

478  
00:21:59,190 --> 00:21:54,880  
going on

479  
00:22:03,270 --> 00:21:59,200  
this past week these past weeks

480  
00:22:05,750 --> 00:22:03,280  
the crew members have been in them

481  
00:22:12,310 --> 00:22:07,909  
customized for a long time they've been

482  
00:22:14,470 --> 00:22:12,320  
undergoing training for a long time

483  
00:22:16,230 --> 00:22:14,480  
so they are fully ready and so it is

484  
00:22:17,830 --> 00:22:16,240  
hard to say

485  
00:22:20,070 --> 00:22:17,840  
what nuance

486  
00:22:24,710 --> 00:22:20,080  
specifically makes

487  
00:22:29,190 --> 00:22:26,870  
it may be that it's the training that

488  
00:22:32,070 --> 00:22:29,200

helps in flight it may be just a

489

00:22:34,310 --> 00:22:32,080

an unofficial conversation over t

490

00:22:36,149 --> 00:22:34,320

that that information ends up being more

491

00:22:39,590 --> 00:22:36,159

important on the flight

492

00:22:42,149 --> 00:22:39,600

but i want to stress that this is

493

00:22:43,909 --> 00:22:42,159

this is nominal training and they're

494

00:22:45,669 --> 00:22:43,919

fully prepared and what is going on

495

00:22:51,190 --> 00:22:45,679

right now is additional training but

496

00:22:54,789 --> 00:22:53,029

there's been a lot

497

00:22:55,590 --> 00:22:54,799

said about the crew

498

00:22:57,430 --> 00:22:55,600

who

499

00:22:59,830 --> 00:22:57,440

is on station you've been speaking a lot

500

00:23:01,029 --> 00:22:59,840

with the crew what are the advices that

501  
00:23:02,070 --> 00:23:01,039  
they're giving

502  
00:23:03,750 --> 00:23:02,080  
you

503  
00:23:05,750 --> 00:23:03,760  
because they've had a lot of experience

504  
00:23:07,909 --> 00:23:05,760  
on station

505  
00:23:09,669 --> 00:23:07,919  
and if you can answer the question that

506  
00:23:12,710 --> 00:23:09,679  
i've already asked

507  
00:23:15,190 --> 00:23:12,720  
why is it worth uh risking

508  
00:23:20,070 --> 00:23:15,200  
why is it worth having a space flight

509  
00:23:23,990 --> 00:23:21,110  
i just

510  
00:23:25,669 --> 00:23:24,000  
again want to stress that we are very

511  
00:23:27,110 --> 00:23:25,679  
closely training with a crew that is

512  
00:23:29,350 --> 00:23:27,120  
already on board

513  
00:23:33,270 --> 00:23:29,360

they give us a lot of

514

00:23:34,470 --> 00:23:33,280

valuable advice

515

00:23:37,029 --> 00:23:34,480

starting

516

00:23:39,430 --> 00:23:37,039

from the very basic household

517

00:23:42,549 --> 00:23:39,440

questions like how to prepare food

518

00:23:43,510 --> 00:23:42,559

how to get used to zero gravity

519

00:23:44,950 --> 00:23:43,520

um

520

00:23:46,470 --> 00:23:44,960

and it's important to speak to them

521

00:23:47,909 --> 00:23:46,480

because they can provide this

522

00:23:50,789 --> 00:23:47,919

information since they've gone through

523

00:23:55,350 --> 00:23:50,799

it themselves

524

00:23:56,950 --> 00:23:55,360

and yes there is a lot of risk involved

525

00:24:00,070 --> 00:23:56,960

but

526

00:24:04,390 --> 00:24:02,149

uh we know that there are a lot of

527

00:24:15,110 --> 00:24:04,400

nominal situations that may occur and

528

00:24:20,310 --> 00:24:17,029

yes there are difficulties there are

529

00:24:23,430 --> 00:24:20,320

complications in what we do

530

00:24:25,750 --> 00:24:23,440

but unfortunately it's a pretty rare

531

00:24:27,830 --> 00:24:25,760

thing that happens

532

00:24:33,590 --> 00:24:27,840

and so i think we should need to we need

533

00:24:38,870 --> 00:24:35,190

and we need to do everything we can to

534

00:24:43,350 --> 00:24:40,630

yeah i'd like to thank all the people

535

00:24:44,230 --> 00:24:43,360

present for their good questions and

536

00:24:46,950 --> 00:24:44,240

uh

537

00:24:50,630 --> 00:24:46,960

the cosmonauts and astronauts for their

538

00:24:50,640 --> 00:24:53,990

thank you so much

539

00:25:00,950 --> 00:24:55,669

okay now we can do some traditional

540

00:25:05,110 --> 00:25:02,230

okay

541

00:25:09,990 --> 00:25:05,120

hand shake as always traditional

542

00:25:10,000 --> 00:25:18,950

thank you

543

00:25:18,960 --> 00:25:29,510

foreign

544

00:25:29,520 --> 00:25:42,230

okay thank you

545

00:25:42,240 --> 00:26:02,870

so maybe 15 minutes

546

00:26:02,880 --> 00:26:21,029

um

547

00:26:21,039 --> 00:26:26,390

all right

548

00:26:26,400 --> 00:26:48,390

okay

549

00:26:48,400 --> 00:27:30,549

foreign

550

00:27:30,559 --> 00:27:55,669

okay

551  
00:27:55,679 --> 00:28:22,389  
good

552  
00:29:11,110 --> 00:28:46,870  
oh

553  
00:29:14,950 --> 00:29:12,630  
it's one of the great traditions that we

554  
00:29:15,909 --> 00:29:14,960  
uh we typically do before uh missions

555  
00:29:17,510 --> 00:29:15,919  
here

556  
00:29:19,830 --> 00:29:17,520  
every cosmonaut every astronaut that

557  
00:29:22,310 --> 00:29:19,840  
flies aboard soyuz will come here and

558  
00:29:24,710 --> 00:29:22,320  
visit red square and uh and basically

559  
00:29:26,389 --> 00:29:24,720  
just pay tribute to uh to the folks who

560  
00:29:27,909 --> 00:29:26,399  
kind of laid the foundations of the

561  
00:29:29,190 --> 00:29:27,919  
russian space program

562  
00:29:32,470 --> 00:29:29,200  
yuri gagarin

563  
00:29:33,590 --> 00:29:32,480

um sergey korliov and the others who uh

564

00:29:34,789 --> 00:29:33,600

who kind of

565

00:29:36,710 --> 00:29:34,799

paved the way

566

00:29:38,870 --> 00:29:36,720

for the russian program here so it's a

567

00:29:40,549 --> 00:29:38,880

one of a lot of very neat traditions

568

00:29:42,389 --> 00:29:40,559

we've got many on

569

00:29:44,310 --> 00:29:42,399

that we also do

570

00:29:45,830 --> 00:29:44,320

in america in the united states

571

00:29:58,310 --> 00:29:45,840

this is kind of special a lot of history

572

00:29:58,320 --> 00:30:09,830

uh

573

00:30:09,840 --> 00:30:48,070

oh

574

00:30:48,080 --> 00:30:59,990

is

575

00:31:00,000 --> 00:31:14,310

everyone together

576

00:31:14,320 --> 00:31:24,870

is

577

00:31:24,880 --> 00:31:46,230

there was a big fire

578

00:31:46,240 --> 00:32:12,310

music

579

00:32:17,029 --> 00:32:14,149

so again here we are touring some famous

580

00:32:19,110 --> 00:32:17,039

sites and uh inside the kremlin uh red

581

00:32:21,110 --> 00:32:19,120

square which we were just uh at that's

582

00:32:23,430 --> 00:32:21,120

right outside the kremlin wall and now

583

00:32:25,990 --> 00:32:23,440

we're inside and

584

00:32:29,350 --> 00:32:26,000

uh this is the czar scanning and we were

585

00:32:32,710 --> 00:32:31,110

a lot of history and something that

586

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

traditionally all the crews will come

587

00:32:35,830 --> 00:32:34,480

and visit just before

588

00:32:37,750 --> 00:32:35,840

about a week before you head down the

589

00:32:39,830 --> 00:32:37,760

lawn so

590

00:32:41,269 --> 00:32:39,840

seven days from now we plan to be on our

591

00:32:43,110 --> 00:32:41,279

way to baikonur and then shortly

592

00:32:44,950 --> 00:32:43,120

thereafter on the way to space station a

593

00:32:57,269 --> 00:32:44,960

little bit later than we planned but

594

00:32:57,279 --> 00:33:22,389

um