



1
00:00:00,000 --> 00:00:21,510
foreign

2
00:00:21,520 --> 00:00:35,510
on their readiness for the mission

3
00:00:35,520 --> 00:00:56,709
sign it

4
00:00:56,719 --> 00:01:05,270
specifically

5
00:01:05,280 --> 00:01:09,270
do you have any questions no

6
00:01:09,280 --> 00:01:20,230
just a couple of words

7
00:01:23,429 --> 00:01:22,070
roman please could you answer a few

8
00:01:33,670 --> 00:01:23,439
questions

9
00:01:37,590 --> 00:01:35,270
during the expedition you're going to

10
00:01:39,030 --> 00:01:37,600
perform a spacewalk so what would be

11
00:01:42,069 --> 00:01:39,040
your goals

12
00:01:44,550 --> 00:01:42,079
well as usual

13
00:01:47,830 --> 00:01:44,560

all our space walks

14

00:01:50,389 --> 00:01:47,840

include working with science equipment

15

00:01:52,149 --> 00:01:50,399

mounting the equipment gathering samples

16

00:01:55,030 --> 00:01:52,159

from the

17

00:01:57,670 --> 00:01:55,040

outside outer shelf of the

18

00:02:00,310 --> 00:01:57,680

shell of the russian segment

19

00:02:02,069 --> 00:02:00,320

or are in our operations

20

00:02:05,510 --> 00:02:02,079

in my case

21

00:02:07,429 --> 00:02:05,520

i will be removing certain experiments

22

00:02:09,669 --> 00:02:07,439

that have been

23

00:02:15,270 --> 00:02:09,679

mounted outside this patient for a while

24

00:02:15,280 --> 00:02:19,110

for now

25

00:02:23,589 --> 00:02:21,430

preparing for a six month flight i

26

00:02:25,830 --> 00:02:23,599

haven't thought about a 12 month flight

27

00:02:27,910 --> 00:02:25,840

yet for for chris hadfield for the

28

00:02:29,589 --> 00:02:27,920

canadian space agency and for nasa he

29

00:02:30,630 --> 00:02:29,599

could answer him for english and in

30

00:02:32,390 --> 00:02:30,640

french

31

00:02:34,070 --> 00:02:32,400

how does your training for your upcoming

32

00:02:35,830 --> 00:02:34,080

mission differ from your previous two

33

00:02:39,030 --> 00:02:35,840

missions

34

00:02:40,390 --> 00:02:39,040

difference in space station training is

35

00:02:42,949 --> 00:02:40,400

maybe the difference between a deep

36

00:02:45,030 --> 00:02:42,959

river and a shallow wide river

37

00:02:47,509 --> 00:02:45,040

when you train for a shuttle flight it's

38

00:02:49,830 --> 00:02:47,519

very specific and very narrow and and

39

00:02:51,589 --> 00:02:49,840

very deep and very channeled for one

40

00:02:53,830 --> 00:02:51,599

event when you train for a space station

41

00:02:56,470 --> 00:02:53,840

flight it is a long

42

00:02:57,990 --> 00:02:56,480

solo training flow for years and you

43

00:02:59,430 --> 00:02:58,000

learn so many things in so many

44

00:03:00,869 --> 00:02:59,440

different places

45

00:03:02,470 --> 00:03:00,879

both of them carry the same amount of

46

00:03:04,630 --> 00:03:02,480

water but it's quite a different

47

00:03:06,550 --> 00:03:04,640

training flow but it's also wonderful

48

00:03:15,110 --> 00:03:06,560

finally after all of that time to uh to

49

00:03:15,120 --> 00:03:44,789

uh

50

00:03:44,799 --> 00:03:49,350

um

51
00:03:54,550 --> 00:03:50,390
first

52
00:03:58,070 --> 00:03:54,560
you're going to be for in space for so

53
00:03:59,429 --> 00:03:58,080
long is there anything

54
00:04:00,550 --> 00:03:59,439
what's the main challenge for you i mean

55
00:04:02,630 --> 00:04:00,560
what are you

56
00:04:04,630 --> 00:04:02,640
i can't say afraid of because i'm sure

57
00:04:07,190 --> 00:04:04,640
you're not but what's the main challenge

58
00:04:08,070 --> 00:04:07,200
for you in french and english uh after

59
00:04:09,509 --> 00:04:08,080
uh

60
00:04:11,350 --> 00:04:09,519
the years that we've been training

61
00:04:14,550 --> 00:04:11,360
together one of the main purposes of the

62
00:04:17,509 --> 00:04:14,560
training was to really understand all of

63
00:04:19,830 --> 00:04:17,519

the things that uh can go wrong so that

64

00:04:21,430 --> 00:04:19,840

it removes the fear where

65

00:04:22,790 --> 00:04:21,440

we understand what's going on we know

66

00:04:24,870 --> 00:04:22,800

what the risks are but we know what

67

00:04:27,270 --> 00:04:24,880

we're going to do and so it's not a big

68

00:04:29,270 --> 00:04:27,280

unknown so it makes it

69

00:04:30,550 --> 00:04:29,280

a confident thing rather than a fearful

70

00:04:32,710 --> 00:04:30,560

thing

71

00:04:35,270 --> 00:04:32,720

so i think really the

72

00:04:35,990 --> 00:04:35,280

the hardest part is uh

73

00:04:37,990 --> 00:04:36,000

well

74

00:04:39,110 --> 00:04:38,000

it's hard to say in advance i'm guessing

75

00:04:41,430 --> 00:04:39,120

but

76
00:04:42,870 --> 00:04:41,440
the hardest part will be remembering all

77
00:04:44,469 --> 00:04:42,880
of the things we were taught for the

78
00:04:46,070 --> 00:04:44,479
last four or five years trying to keep

79
00:04:48,310 --> 00:04:46,080
them in the front of our brain trying to

80
00:04:50,550 --> 00:04:48,320
make sure that whatever the instructor

81
00:04:53,189 --> 00:04:50,560
told me down on the boat in sevastopol

82
00:04:55,270 --> 00:04:53,199
uh four years ago on the black sea that

83
00:04:57,590 --> 00:04:55,280
i that i remember that now so i think

84
00:05:07,350 --> 00:04:57,600
just keeping it all fresh for so long is

85
00:05:07,360 --> 00:05:46,230
yes this

86
00:05:49,670 --> 00:05:47,510
are you

87
00:05:57,510 --> 00:05:49,680
ready for the mission for the space

88
00:06:02,469 --> 00:05:59,830

we do not know what of nominal

89

00:06:05,029 --> 00:06:02,479

situations uh emergency training we're

90

00:06:06,950 --> 00:06:05,039

going to be taking our tests our

91

00:06:07,990 --> 00:06:06,960

examination again

92

00:06:10,870 --> 00:06:08,000

but

93

00:06:14,710 --> 00:06:10,880

we are prepared and we are hoping that

94

00:06:36,309 --> 00:06:18,469

so what language do you communicate in

95

00:06:40,550 --> 00:06:37,909

which one would you prefer english

96

00:06:41,990 --> 00:06:40,560

russian or french

97

00:06:44,790 --> 00:06:42,000

in english

98

00:06:47,029 --> 00:06:44,800

there are three major problems that can

99

00:06:50,070 --> 00:06:47,039

happen on a space station that are the

100

00:06:52,550 --> 00:06:50,080

most dangerous one is a leak where the

101
00:06:54,550 --> 00:06:52,560
air is coming out of the station two is

102
00:06:56,710 --> 00:06:54,560
being poisoned by the atmosphere with

103
00:06:58,309 --> 00:06:56,720
ammonia or some other chemical and the

104
00:06:59,510 --> 00:06:58,319
third is fire

105
00:07:01,589 --> 00:06:59,520
and

106
00:07:03,110 --> 00:07:01,599
there's no such thing as a small fire in

107
00:07:05,670 --> 00:07:03,120
a spaceship

108
00:07:07,990 --> 00:07:05,680
and so uh if there's a fire the smoke is

109
00:07:09,270 --> 00:07:08,000
what will kill us first and so we have

110
00:07:11,909 --> 00:07:09,280
to be very

111
00:07:13,589 --> 00:07:11,919
uh ready to respond there are sensors

112
00:07:15,270 --> 00:07:13,599
throughout the space station to warn us

113
00:07:17,350 --> 00:07:15,280

if there's a fire

114

00:07:19,670 --> 00:07:17,360

we have protective equipment with masks

115

00:07:22,550 --> 00:07:19,680

and fire extinguishers and if all else

116

00:07:24,550 --> 00:07:22,560

fails we can always get into our soyuz

117

00:07:26,950 --> 00:07:24,560

and close the hatch and and breathe in

118

00:07:29,510 --> 00:07:26,960

our pressure suits and be okay so it's a

119

00:07:31,430 --> 00:07:29,520

big problem it's a it's one of the worst

120

00:07:33,029 --> 00:07:31,440

things that can happen but we've been

121

00:07:35,029 --> 00:07:33,039

trained really well by the instructors

122

00:07:36,469 --> 00:07:35,039

here at star city and in houston

123

00:07:38,629 --> 00:07:36,479

and uh and we have the equipment

124

00:07:41,589 --> 00:07:38,639

necessary so uh we don't want to have a

125

00:07:43,510 --> 00:07:41,599

fire but if we have one we're ready

126
00:07:48,629 --> 00:07:43,520
thank

127
00:07:52,550 --> 00:07:50,469
for nasa tv this is going to be your

128
00:07:54,309 --> 00:07:52,560
first a long duration space flight what

129
00:07:56,150 --> 00:07:54,319
are you looking forward to the most uh

130
00:07:57,670 --> 00:07:56,160
for a long duration as compared to your

131
00:07:58,869 --> 00:07:57,680
previous mission

132
00:08:00,790 --> 00:07:58,879
space shuttle

133
00:08:02,710 --> 00:08:00,800
like a lot of first-time long-duration

134
00:08:04,950 --> 00:08:02,720
flyers i'm looking forward to actually

135
00:08:06,950 --> 00:08:04,960
living in space the shuttle flight was

136
00:08:08,469 --> 00:08:06,960
so busy i remember maybe about a

137
00:08:10,550 --> 00:08:08,479
45-minute period where i had a chance to

138
00:08:12,390 --> 00:08:10,560

look out the window and actually

139

00:08:14,070 --> 00:08:12,400

although the work is very enjoyable in

140

00:08:15,909 --> 00:08:14,080

zero gravity but actually enjoy the zero

141

00:08:17,270 --> 00:08:15,919

gravity so in a long duration flight

142

00:08:19,430 --> 00:08:17,280

looking forward to seeing how my body

143

00:08:21,990 --> 00:08:19,440

reacts after about a month hopefully

144

00:08:24,309 --> 00:08:22,000

perhaps it'll stabilize uh the kind of

145

00:08:25,830 --> 00:08:24,319

efficiencies we can build

146

00:08:27,589 --> 00:08:25,840

one of the most important things about

147

00:08:29,670 --> 00:08:27,599

us doing this long-duration flight now

148

00:08:30,710 --> 00:08:29,680

is how can we and the ground team get

149

00:08:32,070 --> 00:08:30,720

better

150

00:08:33,670 --> 00:08:32,080

at long-duration flight because that's

151
00:08:38,469 --> 00:08:33,680
key to exploration and i'm looking

152
00:08:44,310 --> 00:08:39,589
thank you

153
00:08:46,710 --> 00:08:45,750
is that about to

154
00:09:06,230 --> 00:08:46,720
let's

155
00:09:06,240 --> 00:09:14,389
oh

156
00:09:14,399 --> 00:09:49,190
everything for right now looks good

157
00:09:55,430 --> 00:09:52,790
crew is reporting

158
00:10:07,110 --> 00:09:55,440
the commander of the

159
00:10:07,120 --> 00:10:26,790
what date is it today 27th yes 27th

160
00:10:26,800 --> 00:10:43,990
do you have any questions

161
00:10:51,829 --> 00:10:47,110
everybody's ready

162
00:10:56,470 --> 00:10:53,750
so what do you think

163
00:11:00,150 --> 00:10:56,480

about the level if you were readiness

164

00:11:03,910 --> 00:11:00,160

for the mission after the training

165

00:11:06,069 --> 00:11:03,920

well first the first day was nominal

166

00:11:08,310 --> 00:11:06,079

our

167

00:11:09,350 --> 00:11:08,320

grade is

168

00:11:26,949 --> 00:11:09,360

an eight

169

00:11:31,750 --> 00:11:29,430

difficult because we have to wear

170

00:11:33,190 --> 00:11:31,760

spacesuits and i think this exam is

171

00:11:36,790 --> 00:11:33,200

going to be

172

00:11:40,550 --> 00:11:38,949

any other questions

173

00:11:42,470 --> 00:11:40,560

first i'd like to know you're going to

174

00:11:43,910 --> 00:11:42,480

be at one point couple of months a

175

00:11:46,470 --> 00:11:43,920

commander of the international space

176

00:11:49,190 --> 00:11:46,480

station i'd like to know is this to sign

177

00:11:50,870 --> 00:11:49,200

some kind of nice title for years of

178

00:11:52,710 --> 00:11:50,880

good service or what kind of

179

00:11:54,069 --> 00:11:52,720

responsibility does it mean in french

180

00:11:56,230 --> 00:11:54,079

english and also would like you to

181

00:11:58,550 --> 00:11:56,240

answer your question about you answered

182

00:12:00,310 --> 00:11:58,560

yesterday about fire the risk of fire

183

00:12:01,590 --> 00:12:00,320

what does it mean can you tell us also

184

00:12:03,750 --> 00:12:01,600

in french

185

00:12:05,910 --> 00:12:03,760

give us the same answer

186

00:12:08,230 --> 00:12:05,920

it is a tremendous privilege

187

00:12:09,190 --> 00:12:08,240

to be part of this crew these are good

188

00:12:11,590 --> 00:12:09,200

people

189

00:12:13,430 --> 00:12:11,600

and we are going to go live in a place

190

00:12:14,710 --> 00:12:13,440

built by the world and we have great

191

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

confidence in each other and great

192

00:12:18,949 --> 00:12:16,639

confidence in the space station

193

00:12:20,150 --> 00:12:18,959

and to be asked to uh

194

00:12:21,269 --> 00:12:20,160

rahman is the commander of this

195

00:12:23,430 --> 00:12:21,279

spaceship

196

00:12:24,629 --> 00:12:23,440

uh and i'm having a chance after a few

197

00:12:27,190 --> 00:12:24,639

months to command the international

198

00:12:29,190 --> 00:12:27,200

space station all three of us understand

199

00:12:30,069 --> 00:12:29,200

our responsibilities really well

200

00:12:32,150 --> 00:12:30,079

and

201
00:12:33,670 --> 00:12:32,160
hopefully the vehicles will behave well

202
00:12:36,150 --> 00:12:33,680
and our jobs will mostly be just

203
00:13:12,949 --> 00:12:36,160
day-to-day work but if things require

204
00:13:15,430 --> 00:13:14,150
better let other people have a chance

205
00:13:23,590 --> 00:13:15,440
too

206
00:13:28,710 --> 00:13:26,069
the final exams are to make sure

207
00:13:30,710 --> 00:13:28,720
everybody understands exactly uh how

208
00:13:33,269 --> 00:13:30,720
prepared we are we feel very prepared

209
00:13:34,629 --> 00:13:33,279
for them it's time to demonstrate that

210
00:13:36,230 --> 00:13:34,639
and so

211
00:13:37,990 --> 00:13:36,240
we're coming in with a lot of confidence

212
00:13:39,110 --> 00:13:38,000
for this

213
00:13:40,790 --> 00:13:39,120

so that's

214

00:13:42,790 --> 00:13:40,800

basically what we'll be doing it's it's

215

00:13:44,389 --> 00:13:42,800

obviously very important for the flight

216

00:13:45,990 --> 00:13:44,399

that we be able to demonstrate how well

217

00:13:49,030 --> 00:13:46,000

we work together what our goals and

218

00:13:51,189 --> 00:13:49,040

responsibilities are how our response to

219

00:13:55,670 --> 00:13:51,199

any uh off nominal situations is so

220

00:14:00,629 --> 00:13:57,110

question is what is real first for

221

00:14:02,550 --> 00:14:00,639

russia today television uh chris gilman

222

00:14:04,710 --> 00:14:02,560

you both play the guitar

223

00:14:06,710 --> 00:14:04,720

and um you know you're gonna be standing

224

00:14:07,750 --> 00:14:06,720

in the holiday season up there in the

225

00:14:09,350 --> 00:14:07,760

iss

226

00:14:11,590 --> 00:14:09,360

uh have you been rehearsing any

227

00:14:16,710 --> 00:14:11,600

christmas carols maybe or roma maybe you

228

00:14:19,590 --> 00:14:17,750

uh

229

00:14:21,269 --> 00:14:19,600

well all three of us are musicians in

230

00:14:22,470 --> 00:14:21,279

addition to being uh

231

00:14:23,910 --> 00:14:22,480

astronauts

232

00:14:25,189 --> 00:14:23,920

um

233

00:14:26,629 --> 00:14:25,199

and uh

234

00:14:28,069 --> 00:14:26,639

you know it's not the core of what we're

235

00:14:30,949 --> 00:14:28,079

doing in space

236

00:14:32,310 --> 00:14:30,959

but it's the art is is important and

237

00:14:34,550 --> 00:14:32,320

understanding

238

00:14:35,750 --> 00:14:34,560

the universe around us is best expressed

239

00:14:37,110 --> 00:14:35,760

through art

240

00:14:39,110 --> 00:14:37,120

and uh

241

00:14:41,350 --> 00:14:39,120

all three of us uh have played music

242

00:14:42,790 --> 00:14:41,360

most of our lives and so

243

00:14:44,790 --> 00:14:42,800

we're gonna do our job which is

244

00:14:47,189 --> 00:14:44,800

important but at the same time

245

00:14:49,030 --> 00:14:47,199

we'll be playing the musical instruments

246

00:14:51,430 --> 00:14:49,040

on board as a way to

247

00:14:53,829 --> 00:14:51,440

understand and express what's going on

248

00:14:57,189 --> 00:14:53,839

and when there's a holiday like

249

00:14:59,110 --> 00:14:57,199

a birthday or or christmas there are

250

00:15:00,710 --> 00:14:59,120

songs traditional songs and yes we will

251
00:15:02,150 --> 00:15:00,720
be playing those songs together and

252
00:15:04,870 --> 00:15:02,160
singing those songs it's just part of

253
00:15:04,880 --> 00:15:08,069
thank you

254
00:15:12,230 --> 00:15:10,310
yes i've written several songs partially

255
00:15:14,150 --> 00:15:12,240
written and yeah we'll be writing

256
00:15:15,829 --> 00:15:14,160
recording songs just like taking

257
00:15:20,550 --> 00:15:15,839
pictures or writing a blog but trying to

258
00:15:23,509 --> 00:15:22,470
thank you very much

259
00:15:37,910 --> 00:15:23,519
and

260
00:15:37,920 --> 00:15:41,749
thank you

261
00:15:41,759 --> 00:15:45,030
i'll be the first

262
00:15:45,040 --> 00:15:54,069
good luck

263
00:15:54,079 --> 00:16:13,110

thank you

264

00:16:13,120 --> 00:16:49,269

hmm

265

00:17:01,509 --> 00:16:50,470

okay i'm just going to work from the

266

00:17:01,519 --> 00:17:05,110

microphone

267

00:17:05,120 --> 00:17:31,110

the other one not this one

268

00:17:31,120 --> 00:17:42,310

to the other area

269

00:17:47,110 --> 00:17:44,630

the head of the commission

270

00:17:49,990 --> 00:17:47,120

we are reporting and we are ready for

271

00:17:51,909 --> 00:17:50,000

our exams

272

00:18:11,350 --> 00:17:51,919

who's going to draw it

273

00:18:25,830 --> 00:18:15,590

tell us what date it is today

274

00:18:37,350 --> 00:18:26,950

any questions

275

00:18:46,870 --> 00:18:39,830

i'm going to fly for the second

276

00:18:51,029 --> 00:18:48,630

what's the difference between

277

00:18:53,029 --> 00:18:51,039

working as part of the backup crew or

278

00:18:55,270 --> 00:18:53,039

the main crew unfortunately no

279

00:19:01,990 --> 00:18:55,280

difference the volume of what you have

280

00:19:03,909 --> 00:19:03,029

well

281

00:19:18,310 --> 00:19:03,919

i

282

00:19:21,590 --> 00:19:18,320

each crew

283

00:19:23,430 --> 00:19:21,600

has the nominal operations and tasks and

284

00:19:25,830 --> 00:19:23,440

that's what we have

285

00:19:28,950 --> 00:19:25,840

further nikolaevich you have a very

286

00:19:33,430 --> 00:19:30,630

i actually already

287

00:19:37,110 --> 00:19:33,440

wrote about the

288

00:19:40,710 --> 00:19:37,120

language that we use and it's ringlish

289

00:19:41,909 --> 00:19:40,720

a mixture of english and russian

290

00:19:43,590 --> 00:19:41,919

and

291

00:19:48,150 --> 00:19:43,600

i actually

292

00:19:54,870 --> 00:19:51,990

who writes fiction novels about

293

00:19:56,070 --> 00:19:54,880

space travel to far away galaxies

294

00:19:57,669 --> 00:19:56,080

and

295

00:20:01,110 --> 00:19:57,679

people from

296

00:20:03,350 --> 00:20:01,120

all different civilizations

297

00:20:04,950 --> 00:20:03,360

of the world actually

298

00:20:09,190 --> 00:20:04,960

are part of that

299

00:20:10,870 --> 00:20:09,200

mission and so they speak all

300

00:20:15,430 --> 00:20:10,880

the languages

301
00:20:25,190 --> 00:20:18,789
please take turns and maybe you can ask

302
00:20:29,510 --> 00:20:28,070
is there anything new that uh appeared

303
00:20:30,950 --> 00:20:29,520
in your training

304
00:20:33,510 --> 00:20:30,960
of course it's

305
00:20:37,510 --> 00:20:33,520
each vehicle is different and there is

306
00:20:37,520 --> 00:20:43,350
for example this all uses in use or use

307
00:20:48,549 --> 00:20:46,149
at the same time

308
00:20:50,549 --> 00:20:48,559
the level of responsibility stays the

309
00:20:55,270 --> 00:20:50,559
same

310
00:21:00,230 --> 00:20:57,590
we know that karen is training for the

311
00:21:04,230 --> 00:21:00,240
mission is the command very

312
00:21:07,510 --> 00:21:05,669
we've been having a great time with

313
00:21:09,830 --> 00:21:07,520

fyodor um getting to know him and

314

00:21:11,430 --> 00:21:09,840

working with him and i'm very much

315

00:21:13,350 --> 00:21:11,440

looking forward to

316

00:21:16,149 --> 00:21:13,360

the friendship

317

00:21:18,070 --> 00:21:16,159

that we're building and will continue to

318

00:21:23,909 --> 00:21:18,080

build in the next six months of training

319

00:21:29,029 --> 00:21:27,029

so what do you think about your training

320

00:21:30,630 --> 00:21:29,039

very interesting

321

00:21:33,590 --> 00:21:30,640

i enjoyed it

322

00:21:35,669 --> 00:21:33,600

i love working with the crews

323

00:21:38,390 --> 00:21:35,679

it's like a dream

324

00:21:40,710 --> 00:21:38,400

getting ready for a space mission is my

325

00:21:44,230 --> 00:21:40,720

dream

326
00:21:45,350 --> 00:21:44,240
and i would like to thank our commander

327
00:21:48,390 --> 00:21:45,360
because

328
00:21:53,669 --> 00:21:48,400
everything i know about the vehicle

329
00:21:56,549 --> 00:21:55,590
what he taught me

330
00:21:58,870 --> 00:21:56,559
and

331
00:22:02,630 --> 00:21:58,880
what he helped me with

332
00:22:09,029 --> 00:22:05,270
he's a very experienced uh commander

333
00:22:13,190 --> 00:22:11,190
thank you

334
00:22:16,230 --> 00:22:13,200
i have to say that our crew is just

335
00:22:16,240 --> 00:22:20,549
we wish you um good luck

336
00:22:20,559 --> 00:22:31,270
we won't be getting any away anymore

337
00:22:35,430 --> 00:22:33,430
okay let's look at the nasa tv camera

338
00:22:38,070 --> 00:22:35,440

now

339

00:22:42,310 --> 00:22:38,080

and then please look at the ether camera