



1
00:00:10,100 --> 00:00:02,300
station this is Houston are you ready

2
00:00:13,459 --> 00:00:10,110
for the event and get ready JFC PA oh

3
00:00:17,150 --> 00:00:13,469
this is Houston please call station for

4
00:00:23,990 --> 00:00:17,160
a voice check station this is jay SCPA

5
00:00:29,169 --> 00:00:24,000
oh how do you hear me higher up we're

6
00:00:31,999 --> 00:00:29,179
either loud and clear go ahead mark

7
00:00:36,290 --> 00:00:32,009
Thanks this is mark Cairo for aviation

8
00:00:39,580 --> 00:00:36,300
week and space technology and I'm asking

9
00:00:43,420 --> 00:00:39,590
for either run or Katie Collman to use

10
00:00:46,100 --> 00:00:43,430
your personal and professional

11
00:00:48,200 --> 00:00:46,110
experiences to place the two

12
00:00:57,860 --> 00:00:48,210
anniversaries today in some sort of

13
00:01:00,020 --> 00:00:57,870

perspective to use our personal and

14

00:01:05,210 --> 00:01:00,030

professional experience to place these

15

00:01:08,000 --> 00:01:05,220

two together the fact that we're looking

16

00:01:10,219 --> 00:01:08,010

at 50 years of spaceflight and fifty

17

00:01:13,250 --> 00:01:10,229

years ago the first human left the

18

00:01:17,270 --> 00:01:13,260

planet and you know orbited our planet

19

00:01:19,280 --> 00:01:17,280

orbit orbited our earth and now just 50

20

00:01:22,520 --> 00:01:19,290

years later living in space is

21

00:01:25,969 --> 00:01:22,530

considered to be practically normal the

22

00:01:27,380 --> 00:01:25,979

fact that my you know 4th grade son his

23

00:01:29,179 --> 00:01:27,390

classmates think that it's perfectly

24

00:01:31,310 --> 00:01:29,189

normal that his mother calls from space

25

00:01:34,010 --> 00:01:31,320

and helps with homework we've really

26

00:01:35,960 --> 00:01:34,020

come a very very long way in each of

27

00:01:38,359 --> 00:01:35,970

these kinds of journeys I think starts

28

00:01:39,830 --> 00:01:38,369

with both big steps and small steps I

29

00:01:41,749 --> 00:01:39,840

mean to leave the planet is a big step

30

00:01:44,389 --> 00:01:41,759

but before you do that there's some very

31

00:01:46,130 --> 00:01:44,399

very important small steps that have to

32

00:01:48,410 --> 00:01:46,140

happen and we have to have patience

33

00:01:50,870 --> 00:01:48,420

through those small steps and so I I

34

00:01:52,940 --> 00:01:50,880

think that it's really great when we we

35

00:01:56,209 --> 00:01:52,950

have a day like today where we can look

36

00:01:57,649 --> 00:01:56,219

back and recognize the big steps when

37

00:02:00,139 --> 00:01:57,659

we're sometimes in the midst of the

38

00:02:01,969 --> 00:02:00,149

small ones and it reminds us of the the

39

00:02:06,540 --> 00:02:01,979

greater goal which is to explore our

40

00:02:11,800 --> 00:02:09,460

this is a jib over with NBC a question

41

00:02:14,110 --> 00:02:11,810

for all the crew here you have a great

42

00:02:17,440 --> 00:02:14,120

spacecraft but I want to ask you aside

43

00:02:20,020 --> 00:02:17,450

from the engines what is lacking or what

44

00:02:22,600 --> 00:02:20,030

still needs work to have a vehicle that

45

00:02:25,570 --> 00:02:22,610

could take a crew out of low-earth orbit

46

00:02:28,060 --> 00:02:25,580

into deep space for a year or more when

47

00:02:29,800 --> 00:02:28,070

they say oh yeah Kalika more sooo let's

48

00:02:32,380 --> 00:02:29,810

go to Mars what else do you have to

49

00:02:42,400 --> 00:02:32,390

develop on the station to have that

50

00:02:45,430 --> 00:02:42,410

ability hi Jim um that's a that's a good

51
00:02:47,020 --> 00:02:45,440
question you know I think you know if

52
00:02:48,460 --> 00:02:47,030
you imagine the space station being

53
00:02:50,470 --> 00:02:48,470
propelled out you know beyond Earth

54
00:02:52,780 --> 00:02:50,480
orbit and on its way to Mars we have a

55
00:02:55,840 --> 00:02:52,790
lot of what we would need for that

56
00:02:58,000 --> 00:02:55,850
journey you know we've got methods to

57
00:03:01,900 --> 00:02:58,010
keep the crew healthy we've got exercise

58
00:03:03,640 --> 00:03:01,910
equipment you know but you know really

59
00:03:06,370 --> 00:03:03,650
you know i think the limiting factor

60
00:03:08,650 --> 00:03:06,380
would be that we are really dependent on

61
00:03:12,460 --> 00:03:08,660
resupply from Earth on a fairly frequent

62
00:03:14,229 --> 00:03:12,470
basis so you know we would have to you

63
00:03:16,090 --> 00:03:14,239

know we do a lot of recycling on board

64

00:03:20,410 --> 00:03:16,100

we have a lot of systems that you know

65

00:03:22,870 --> 00:03:20,420

make use of you know water recycling and

66

00:03:24,670 --> 00:03:22,880

other other things to limit how much

67

00:03:25,870 --> 00:03:24,680

resupply we need but we need to take

68

00:03:28,449 --> 00:03:25,880

that a little bit further and have

69

00:03:29,680 --> 00:03:28,459

really a closed life-support system one

70

00:03:31,570 --> 00:03:29,690

that you know doesn't need constant

71

00:03:33,640 --> 00:03:31,580

resupply so I think you know obviously

72

00:03:36,190 --> 00:03:33,650

we need a lot more fuel and a lot bigger

73

00:03:38,140 --> 00:03:36,200

engines but you know I think this the

74

00:03:39,729 --> 00:03:38,150

supply part of the equation i think is

75

00:03:42,100 --> 00:03:39,739

something that we need to work on a

76

00:03:48,880 --> 00:03:42,110

little bit and is one of the things that

77

00:03:50,740 --> 00:03:48,890

we're learning here hi this is Robert

78

00:03:52,780 --> 00:03:50,750

Pearlman with collectspace.com and space

79

00:03:54,250 --> 00:03:52,790

com the International Space Station

80

00:03:55,810 --> 00:03:54,260

doesn't have a lot of decorations but I

81

00:03:57,580 --> 00:03:55,820

think I see off to your side a picture

82

00:03:58,990 --> 00:03:57,590

of Gagarin floating there that may have

83

00:04:00,490 --> 00:03:59,000

been from the service module it's been

84

00:04:03,220 --> 00:04:00,500

there since the beginning what does it

85

00:04:04,660 --> 00:04:03,230

mean to you as a crew to have a picture

86

00:04:08,110 --> 00:04:04,670

of Gagarin on board on this anniversary

87

00:04:17,530 --> 00:04:08,120

and why is it special to have him as

88

00:04:24,470 --> 00:04:20,360

this is dmitri and he'll at me as in

89

00:04:26,960 --> 00:04:24,480

Russian he had alludes to portraiture

90

00:04:29,690 --> 00:04:26,970

ishika gardener I believe in is that

91

00:04:31,760 --> 00:04:29,700

Pakistan policy says you're gonna see

92

00:04:34,370 --> 00:04:31,770

portrait just like our stage light

93

00:04:37,850 --> 00:04:34,380

itself it's the symbol of the early days

94

00:04:40,190 --> 00:04:37,860

of the space exploration error I see

95

00:04:43,760 --> 00:04:40,200

onion so it's not just he's a Russian

96

00:04:49,250 --> 00:04:43,770

really he's a human has made the first

97

00:04:51,890 --> 00:04:49,260

ever step into outer space which became

98

00:04:55,130 --> 00:04:51,900

a milestone for humankind at large this

99

00:04:59,390 --> 00:04:55,140

portrait is a symbol of the new era and

100

00:05:02,420 --> 00:04:59,400

this person who symbolizes the human

101
00:05:05,390 --> 00:05:02,430
assault into space the first step into

102
00:05:07,460 --> 00:05:05,400
the space exploration endeavor that's

103
00:05:08,930 --> 00:05:07,470
what's important about this portion and

104
00:05:11,360 --> 00:05:08,940
that's why we try to make sure that his

105
00:05:19,310 --> 00:05:11,370
portrait is in the picture with us when

106
00:05:21,950 --> 00:05:19,320
we do events like this station this is

107
00:05:24,740 --> 00:05:21,960
Houston ACR that concludes questions

108
00:05:30,650 --> 00:05:24,750
from JSC PA oh please stand by for a

109
00:05:41,300 --> 00:05:35,510
I assess this is either Piero in

110
00:05:47,350 --> 00:05:41,310
Brussels how do you hear me we have your

111
00:05:55,580 --> 00:05:50,150
introduce you now to your news anchor

112
00:05:57,890 --> 00:05:55,590
Alex Taylor hello welcome to I talk some

113
00:06:00,310 --> 00:05:57,900

questions from our viewers here ISS

114

00:06:02,630 --> 00:06:00,320

seems far away from everyday concerns

115

00:06:04,850 --> 00:06:02,640

can it actually bring us any health

116

00:06:07,820 --> 00:06:04,860

benefits are you doing research which

117

00:06:18,500 --> 00:06:07,830

can help us here who are on earth whoa

118

00:06:19,850 --> 00:06:18,510

what are you doing to help us I guess we

119

00:06:22,640 --> 00:06:19,860

all want to answer that question was

120

00:06:25,610 --> 00:06:22,650

what we were saying amongst us we're

121

00:06:27,260 --> 00:06:25,620

doing a lot of research on human beings

122

00:06:29,270 --> 00:06:27,270

just finding out what happens to human

123

00:06:30,530 --> 00:06:29,280

beings in microgravity and that pays off

124

00:06:33,530 --> 00:06:30,540

when we're trying to figure out how to

125

00:06:35,420 --> 00:06:33,540

go to Mars safely and be gone for longer

126

00:06:37,670 --> 00:06:35,430

but it also has benefits back on earth

127

00:06:40,970 --> 00:06:37,680

one of the biggest ones that jumps out

128

00:06:43,700 --> 00:06:40,980

is bone loss osteoporosis we have about

129

00:06:46,250 --> 00:06:43,710

ten times the rate of bone loss as your

130

00:06:49,790 --> 00:06:46,260

average osteoporotic 70 year old woman

131

00:06:51,170 --> 00:06:49,800

and so what we are we're a different

132

00:06:53,090 --> 00:06:51,180

kind of subject and then we probably

133

00:06:55,250 --> 00:06:53,100

have simpler medical histories and it's

134

00:06:57,530 --> 00:06:55,260

a little easier to study just that bone

135

00:06:59,840 --> 00:06:57,540

loss and so we're doing different things

136

00:07:01,280 --> 00:06:59,850

like I myself for example I'm taking

137

00:07:04,190 --> 00:07:01,290

some drugs that prevent osteoporosis

138

00:07:05,750 --> 00:07:04,200

trying to understand how they interact

139

00:07:07,550 --> 00:07:05,760

with the body we're looking at the loss

140

00:07:09,110 --> 00:07:07,560

of bone and also building bone back up

141

00:07:11,000 --> 00:07:09,120

so I think that's a really important

142

00:07:13,880 --> 00:07:11,010

benefit also a lot of cardiovascular

143

00:07:15,860 --> 00:07:13,890

studies vestibular studies understanding

144

00:07:18,650 --> 00:07:15,870

how our brains work all these things

145

00:07:21,200 --> 00:07:18,660

bring information directly back home

146

00:07:24,590 --> 00:07:21,210

because these problems these these

147

00:07:26,000 --> 00:07:24,600

bodily functions happen on earth as well

148

00:07:28,430 --> 00:07:26,010

but sometimes they're harder to

149

00:07:35,960 --> 00:07:28,440

understand until you put them in a very

150

00:07:38,990 --> 00:07:35,970

different environment a virgin advantage

151
00:07:41,960 --> 00:07:39,000
of the space program with paying a get

152
00:07:44,239 --> 00:07:41,970
what do you actually feel about a space

153
00:07:46,759 --> 00:07:44,249
tourists are they

154
00:07:48,949 --> 00:07:46,769
hindrance is it good space tourism

155
00:07:51,649 --> 00:07:48,959
having people I think seven people have

156
00:07:57,769 --> 00:07:51,659
already paid beyond the the ISS what do

157
00:08:00,019 --> 00:07:57,779
you feel about that well I personally I

158
00:08:02,389 --> 00:08:00,029
think the more people that could get the

159
00:08:03,739 --> 00:08:02,399
experience of looking back on earth and

160
00:08:06,259 --> 00:08:03,749
and seeing how beautiful it is and

161
00:08:08,779 --> 00:08:06,269
seeing that we're all just riding on

162
00:08:10,369 --> 00:08:08,789
this on this fragile oasis through the

163
00:08:11,539 --> 00:08:10,379

through the solar system together and

164

00:08:13,099 --> 00:08:11,549

they were all in this together I think

165

00:08:14,659 --> 00:08:13,109

the more people that can see that I

166

00:08:17,209 --> 00:08:14,669

think the better off everybody is going

167

00:08:20,299 --> 00:08:17,219

to be and you know we are all striving

168

00:08:22,850 --> 00:08:20,309

for that day when space travel is is

169

00:08:26,299 --> 00:08:22,860

frequent and as routine as as airline

170

00:08:27,889 --> 00:08:26,309

travel and you know NASA and ISA and and

171

00:08:29,359 --> 00:08:27,899

all the other agencies that are involved

172

00:08:31,639 --> 00:08:29,369

at the International Space Station are

173

00:08:33,709 --> 00:08:31,649

going on to the next big thing and going

174

00:08:35,689 --> 00:08:33,719

on in exploring outside low-earth orbit

175

00:08:38,059 --> 00:08:35,699

and out into the solar system and so I

176

00:08:39,379 --> 00:08:38,069

think it's a logical step that you know

177

00:08:41,600 --> 00:08:39,389

more and more people should be able to

178

00:08:49,809 --> 00:08:41,610

experience it and you know I think it's

179

00:08:52,369 --> 00:08:49,819

a good thing a question to paolo nespoli

180

00:08:54,309 --> 00:08:52,379

obviously euronews where we're

181

00:08:56,689 --> 00:08:54,319

interested in the European perspective

182

00:08:58,879 --> 00:08:56,699

you've been doing Twitter your

183

00:09:02,150 --> 00:08:58,889

photographer what does it look like when

184

00:09:03,499 --> 00:09:02,160

you look at Earth from space what's the

185

00:09:05,749 --> 00:09:03,509

most beautiful things you've seen and

186

00:09:14,829 --> 00:09:05,759

what does Europe and perhaps Italy look

187

00:09:17,509 --> 00:09:14,839

like well earth it's a it's a model and

188

00:09:19,689 --> 00:09:17,519

and it's interesting because it changes

189

00:09:22,069 --> 00:09:19,699

every moment I mean you look down and

190

00:09:24,290 --> 00:09:22,079

sometimes you cannot see anything at all

191

00:09:26,960 --> 00:09:24,300

there are big oceans the clouds all over

192

00:09:29,240 --> 00:09:26,970

the place and sometimes instead you see

193

00:09:31,639 --> 00:09:29,250

everything and every time it shows

194

00:09:34,400 --> 00:09:31,649

itself in a different way in a different

195

00:09:35,869 --> 00:09:34,410

light the Sun changes the time of the

196

00:09:38,990 --> 00:09:35,879

day is different this season is

197

00:09:40,879 --> 00:09:39,000

different the angle of the Sun maybe

198

00:09:43,939 --> 00:09:40,889

there is a moon I mean it changes

199

00:09:47,240 --> 00:09:43,949

completely and it's amazing to discover

200

00:09:49,519 --> 00:09:47,250

all these little areas all the areas in

201
00:09:52,009 --> 00:09:49,529
the world and see the pic celerity of

202
00:09:54,860 --> 00:09:52,019
each one of them it's really really

203
00:09:56,449 --> 00:09:54,870
interesting and amazing the fact that I

204
00:09:57,220 --> 00:09:56,459
can take pictures and send it back to

205
00:09:59,590 --> 00:09:57,230
earth and

206
00:10:01,570 --> 00:09:59,600
people I'd see the messages back on

207
00:10:04,330 --> 00:10:01,580
Twitter and people are really amazed by

208
00:10:06,610 --> 00:10:04,340
the images and and and they see this

209
00:10:14,710 --> 00:10:06,620
planet from from the views up here and

210
00:10:17,350 --> 00:10:14,720
it's just gorgeous and a very short

211
00:10:18,850 --> 00:10:17,360
answer just in a minute perhaps Katie

212
00:10:21,160 --> 00:10:18,860
can you tell us what are the effects on

213
00:10:22,780 --> 00:10:21,170

the body is it difficult to keep your

214

00:10:24,820 --> 00:10:22,790

hair in place for example and why'd you

215

00:10:31,060 --> 00:10:24,830

have long hair do not be easier to cut

216

00:10:33,520 --> 00:10:31,070

the hair once you can ask my crewmates

217

00:10:35,950 --> 00:10:33,530

if I should cut my hair it's actually

218

00:10:38,950 --> 00:10:35,960

impossible to keep it in place except

219

00:10:41,650 --> 00:10:38,960

maybe in a ponytail but you know it

220

00:10:43,930 --> 00:10:41,660

actually it looks so very big but you

221

00:10:45,730 --> 00:10:43,940

know whenever I move it moves with me so

222

00:10:47,590 --> 00:10:45,740

I actually am never even aware of it

223

00:10:50,500 --> 00:10:47,600

until I look in a mirror or see a

224

00:10:53,490 --> 00:10:50,510

picture on camera and everything else up

225

00:10:56,950 --> 00:10:53,500

here is different and and and yet

226

00:11:00,220 --> 00:10:56,960

perfectly doable Paulo has a great

227

00:11:02,080 --> 00:11:00,230

example of just learning to look at our

228

00:11:03,760 --> 00:11:02,090

world in a zero gravity way instead of

229

00:11:05,650 --> 00:11:03,770

the way we do on earth we were trying to

230

00:11:07,900 --> 00:11:05,660

rearrange literally our dining room up

231

00:11:09,670 --> 00:11:07,910

here where we eat together and use the

232

00:11:12,430 --> 00:11:09,680

space and a nice way to interact

233

00:11:14,590 --> 00:11:12,440

together and our table was just too big

234

00:11:16,510 --> 00:11:14,600

it just didn't fit and Paulo figured out

235

00:11:18,010 --> 00:11:16,520

that our table didn't have to be in this

236

00:11:19,960 --> 00:11:18,020

orientation like on earth because

237

00:11:21,820 --> 00:11:19,970

nothing's going to fall off of it and so

238

00:11:23,980 --> 00:11:21,830

our table is like at a slant almost

239

00:11:25,660 --> 00:11:23,990

vertical and in fact everything will

240

00:11:27,550 --> 00:11:25,670

float away from it unless we have velcro

241

00:11:35,260 --> 00:11:27,560

on there to put all of our little food

242

00:11:38,020 --> 00:11:35,270

packages station this is Houston ACR

243

00:11:40,840 --> 00:11:38,030

that concludes questions from isa PA oh

244

00:11:48,670 --> 00:11:40,850

please stand by for a voice check from

245

00:11:50,890 --> 00:11:48,680

CS APA OU station montreal this is Bob

246

00:11:56,980 --> 00:11:50,900

Thirsk and several journalists at the

247

00:11:59,320 --> 00:11:56,990

Canadian Space Agency how do you hear hi

248

00:12:04,750 --> 00:11:59,330

Bob the station we read you loud and

249

00:12:10,430 --> 00:12:07,660

hi Peter Wright from The Canadian Press

250

00:12:13,220 --> 00:12:10,440

50 years ago there was a cold war when

251

00:12:16,970 --> 00:12:13,230

Yuri Gagarin went up there I'm just

252

00:12:18,560 --> 00:12:16,980

wondering we can solve it seems like

253

00:12:20,270 --> 00:12:18,570

you're able to work peacefully up in

254

00:12:22,700 --> 00:12:20,280

space but back down on the earth there's

255

00:12:26,060 --> 00:12:22,710

still political issues and moving

256

00:12:27,140 --> 00:12:26,070

forward I understand China is going to

257

00:12:29,750 --> 00:12:27,150

get into the race I we're going to get

258

00:12:31,210 --> 00:12:29,760

into another space race starting now so

259

00:12:34,850 --> 00:12:31,220

that's sort of a two prong question

260

00:12:43,280 --> 00:12:34,860

Dimitri and anybody else from I guess

261

00:12:47,210 --> 00:12:43,290

maybe Katherine ok Howell has certain

262

00:12:49,490 --> 00:12:47,220

Russian that is teeccino here we go this

263

00:12:51,800 --> 00:12:49,500

way you kiss me stop the early years of

264

00:12:54,500 --> 00:12:51,810

space exploration ago this which develop

265

00:12:56,690 --> 00:12:54,510

each guy go gay but were the years of

266

00:12:58,880 --> 00:12:56,700

the space race because a person it was a

267

00:13:01,190 --> 00:12:58,890

matter of political prestige for a

268

00:13:03,820 --> 00:13:01,200

nation sweetest ass and now in our day

269

00:13:06,160 --> 00:13:03,830

and age the International Space Station

270

00:13:09,590 --> 00:13:06,170

constitutes a great example of

271

00:13:13,030 --> 00:13:09,600

cooperation either she in the area of

272

00:13:15,200 --> 00:13:13,040

space exploration so the upcoming

273

00:13:18,050 --> 00:13:15,210

large-scale space projects that will

274

00:13:19,700 --> 00:13:18,060

lead us onwards and upwards to the moon

275

00:13:22,730 --> 00:13:19,710

to Mars and other planets of the solar

276

00:13:24,800 --> 00:13:22,740

system all of these I believe will be

277

00:13:27,020 --> 00:13:24,810

international because international

278

00:13:29,990 --> 00:13:27,030

cooperation has proven its feasibility

279

00:13:32,710 --> 00:13:30,000

its efficiency its viability that's

280

00:13:35,240 --> 00:13:32,720

because every nation can contribute

281

00:13:39,290 --> 00:13:35,250

their technologies their knowledge bases

282

00:13:42,110 --> 00:13:39,300

their experience their vision to the

283

00:13:48,650 --> 00:13:42,120

future development of manned spaceflight

284

00:13:51,110 --> 00:13:48,660

I think that's a really good question to

285

00:13:53,720 --> 00:13:51,120

ask today we're we're celebrating two

286

00:13:55,280 --> 00:13:53,730

anniversaries obviously the 50th

287

00:13:57,500 --> 00:13:55,290

anniversary of the first human

288

00:14:00,290 --> 00:13:57,510

spaceflight by yuri gagarin and the

289

00:14:02,300 --> 00:14:00,300

first shuttle launch and you know in

290

00:14:05,450 --> 00:14:02,310

both those cases they were the you know

291

00:14:07,310 --> 00:14:05,460

basically one nation in a space race

292

00:14:10,100 --> 00:14:07,320

against each other in a somewhat

293

00:14:12,050 --> 00:14:10,110

antagonistic competition and you know

294

00:14:13,730 --> 00:14:12,060

you look at us today you know the six of

295

00:14:14,720 --> 00:14:13,740

us on board representing the 15 nations

296

00:14:16,430 --> 00:14:14,730

of the

297

00:14:17,900 --> 00:14:16,440

International Space Station partnership

298

00:14:19,850 --> 00:14:17,910

and representing all the nations of the

299

00:14:22,220 --> 00:14:19,860

world really and you see where we've

300

00:14:24,079 --> 00:14:22,230

come and I think you know even at the

301
00:14:26,090 --> 00:14:24,089
height of the Cold War you know somehow

302
00:14:28,069 --> 00:14:26,100
these two nations that weren't always

303
00:14:30,379 --> 00:14:28,079
the best of friends Russia and the US

304
00:14:33,410 --> 00:14:30,389
found a way to cooperate in the space

305
00:14:34,970 --> 00:14:33,420
program via apollo-soyuz so I think you

306
00:14:36,889 --> 00:14:34,980
know the one of the legacies of the

307
00:14:38,990 --> 00:14:36,899
space program over the past 50 years of

308
00:14:40,610 --> 00:14:39,000
human spaceflight is international

309
00:14:42,800 --> 00:14:40,620
cooperation I think it's a good example

310
00:14:44,780 --> 00:14:42,810
of it and another anniversary that we're

311
00:14:46,939 --> 00:14:44,790
recognizing is 10 years of canadarm2

312
00:14:48,829 --> 00:14:46,949
which basically built the space station

313
00:14:51,379 --> 00:14:48,839

that we're in right now so it's a you

314

00:14:54,230 --> 00:14:51,389

know a wonderful wonderful time to think

315

00:15:00,079 --> 00:14:54,240

back where we came from and hopefully

316

00:15:03,230 --> 00:15:00,089

where we're going sabrina marin dola

317

00:15:04,579 --> 00:15:03,240

from CBC in Montreal I'm wondering two

318

00:15:06,530 --> 00:15:04,589

things first off is there a special

319

00:15:08,629 --> 00:15:06,540

routine or something that you do

320

00:15:11,329 --> 00:15:08,639

differently in space on a daily basis

321

00:15:12,949 --> 00:15:11,339

that you didn't do back at home and part

322

00:15:27,790 --> 00:15:12,959

2 did you do anything special today to

323

00:15:34,749 --> 00:15:32,569

no Nana pop alicia machado movie mashup

324

00:15:37,639 --> 00:15:34,759

again in a nutshell if you kill Anya

325

00:15:40,160 --> 00:15:37,649

yeah we do just about the same stuff

326

00:15:42,530 --> 00:15:40,170

whether we're on earth or on orbit we

327

00:15:44,900 --> 00:15:42,540

wake up in the morning we get dressed we

328

00:15:46,549 --> 00:15:44,910

brush our teeth with shave trying to

329

00:15:48,679 --> 00:15:46,559

make sure we have our meals or breakfast

330

00:15:51,049 --> 00:15:48,689

lunch and dinner of course try to make

331

00:15:53,150 --> 00:15:51,059

sure that our living quarters are a

332

00:15:55,639 --> 00:15:53,160

comfortable place to be of course there

333

00:15:57,889 --> 00:15:55,649

are differences here absolutely not

334

00:16:00,110 --> 00:15:57,899

Williamson first and foremost we're here

335

00:16:02,210 --> 00:16:00,120

on duty on active duty twenty-four seven

336

00:16:05,410 --> 00:16:02,220

were always ready to take on off nominal

337

00:16:08,689 --> 00:16:05,420

situations as they may come to bake yes

338

00:16:14,449 --> 00:16:08,699

luckily there haven't been any for us

339

00:16:21,970 --> 00:16:14,459

yet but nevertheless we already lost

340

00:16:26,480 --> 00:16:24,439

during your training at Star City you

341

00:16:32,389 --> 00:16:26,490

are never seemed to be in contact with

342

00:16:34,970 --> 00:16:32,399

artifacts related to the flight of a

343

00:16:37,009 --> 00:16:34,980

stock one and yuri gagarin which of

344

00:16:38,900 --> 00:16:37,019

those artifacts made the strongest

345

00:16:41,389 --> 00:16:38,910

spiritual connection with you and

346

00:16:56,830 --> 00:16:41,399

Catherine will you play a flute the

347

00:17:04,810 --> 00:16:59,470

I'm afraid that calm was broken you need

348

00:17:06,490 --> 00:17:04,820

to repeat your question during your

349

00:17:08,290 --> 00:17:06,500

training at Star City you had

350

00:17:09,910 --> 00:17:08,300

opportunities to be in contact with

351

00:17:12,730 --> 00:17:09,920

artifacts related to the flight of

352

00:17:14,260 --> 00:17:12,740

Bostic one and yuri gagarin which of

353

00:17:15,970 --> 00:17:14,270

those artifacts made the strongest

354

00:17:18,430 --> 00:17:15,980

spiritual connection with you and

355

00:17:25,780 --> 00:17:18,440

Catherine will you record a fluted

356

00:17:28,570 --> 00:17:25,790

homage at one point well I'd like to

357

00:17:30,760 --> 00:17:28,580

think that every time I play up in the

358

00:17:32,110 --> 00:17:30,770

cupola looking out over the earth and

359

00:17:35,200 --> 00:17:32,120

actually looking out over the space

360

00:17:37,810 --> 00:17:35,210

station as well I'm paying homage to the

361

00:17:39,610 --> 00:17:37,820

efforts of so many people who have made

362

00:17:41,410 --> 00:17:39,620

spaceflight happen you know today is a

363

00:17:43,690 --> 00:17:41,420

day where 30 years ago was the first

364

00:17:46,420 --> 00:17:43,700

space shuttle flight years ago Yuri

365

00:17:49,360 --> 00:17:46,430

Gagarin made his very famous flight and

366

00:17:51,430 --> 00:17:49,370

people first left the planet and in the

367

00:17:53,950 --> 00:17:51,440

fact that I can do what I love to do in

368

00:17:56,020 --> 00:17:53,960

the evening in my free time is my way to

369

00:18:02,470 --> 00:17:56,030

pay homage to them and I'll let two

370

00:18:06,280 --> 00:18:02,480

others talk about the artifacts well

371

00:18:08,170 --> 00:18:06,290

training in Star City is it's I wouldn't

372

00:18:11,710 --> 00:18:08,180

say an adventure as an experience of per

373

00:18:13,750 --> 00:18:11,720

se i mean i felt like i was walking on

374

00:18:16,780 --> 00:18:13,760

the on the same streets on the same

375

00:18:21,160 --> 00:18:16,790

place where many cosmonauts have trained

376

00:18:23,320 --> 00:18:21,170

Yuri was there too I felt I was kind of

377

00:18:27,190 --> 00:18:23,330

walking on the steps of history there

378

00:18:30,190 --> 00:18:27,200

and that has been the the things that

379

00:18:33,190 --> 00:18:30,200

more more most inspired me being there

380

00:18:35,410 --> 00:18:33,200

in Star City sitting at the desk the

381

00:18:39,010 --> 00:18:35,420

same desk and same office that Yuri

382

00:18:41,470 --> 00:18:39,020

Gagarin had and thinking that this guy's

383

00:18:44,260 --> 00:18:41,480

50 years ago we take the technology and

384

00:18:46,510 --> 00:18:44,270

the knowledge that they had 50 years ago

385

00:18:48,550 --> 00:18:46,520

were able to go in space and go out of

386

00:18:54,520 --> 00:18:48,560

this world there was surely an

387

00:18:58,060 --> 00:18:54,530

accomplishment station this is Houston

388

00:19:00,040 --> 00:18:58,070

ACR that concludes questions from csa PA

389

00:19:12,200 --> 00:19:00,050

oh please stand by for a voice check

390

00:19:21,990 --> 00:19:14,670

station this is Jack's a pal how do you

391

00:19:24,030 --> 00:19:22,000

hear me Jack's about is a station we

392

00:19:27,450 --> 00:19:24,040

have you loud and clear welcome on board

393

00:19:29,850 --> 00:19:27,460

the International Space Station okay

394

00:19:32,370 --> 00:19:29,860

first of all on behalf of the Japanese

395

00:19:34,620 --> 00:19:32,380

people I would like to ask a short

396

00:19:36,450 --> 00:19:34,630

message for Japanese people who is

397

00:19:39,450 --> 00:19:36,460

suffering the pain from the earthquake

398

00:19:55,340 --> 00:19:39,460

and tsunami it will do encourage us a

399

00:20:03,740 --> 00:20:00,620

tatra GG keturah patrice la nuit toast

400

00:20:05,990 --> 00:20:03,750

rosna that shocked everybody puts trust

401
00:20:09,010 --> 00:20:06,000
across the world kotori the horrible

402
00:20:13,130 --> 00:20:09,020
natural disaster asteroid struck the

403
00:20:16,310 --> 00:20:13,140
island nation of Japan caused a lot of

404
00:20:19,159 --> 00:20:16,320
pain in every Russians heart says where

405
00:20:20,659 --> 00:20:19,169
neighbor nations who didn't say ho Chi

406
00:20:23,990 --> 00:20:20,669
bliss good we're real close to each

407
00:20:28,149 --> 00:20:24,000
other it'll be done more and this is a

408
00:20:31,220 --> 00:20:28,159
he nanashi tragedy can easily happen and

409
00:20:34,580 --> 00:20:31,230
impact misty our territories well from a

410
00:20:37,490 --> 00:20:34,590
padded room was we went to trudno minuto

411
00:20:40,730 --> 00:20:37,500
suffer along with you and we show you

412
00:20:44,000 --> 00:20:40,740
calling all the support and this in this

413
00:20:46,610 --> 00:20:44,010

day of grief in one example my center

414

00:20:49,299 --> 00:20:46,620

leads to support to all the Japanese

415

00:20:52,430 --> 00:20:49,309

people all those who have lost their

416

00:20:55,880 --> 00:20:52,440

families and friends watch to segodnya

417

00:20:57,770 --> 00:20:55,890

let's not forget Piero ah that today of

418

00:21:01,299 --> 00:20:57,780

course most we're celebrating the

419

00:21:03,230 --> 00:21:01,309

anniversary of the first manned flight

420

00:21:05,419 --> 00:21:03,240

impractical and I want to congratulate

421

00:21:08,720 --> 00:21:05,429

everybody on this great occasion wish

422

00:21:11,000 --> 00:21:08,730

you all the best boom its atoms and try

423

00:21:12,409 --> 00:21:11,010

to keep it in your mind's in your hearts

424

00:21:14,960 --> 00:21:12,419

that we're always gonna going to be

425

00:21:18,560 --> 00:21:14,970

there I know us and do anything for you

426

00:21:21,260 --> 00:21:18,570

thank you and I would also like to add

427

00:21:24,560 --> 00:21:21,270

to what Alexander said you know we are

428

00:21:26,720 --> 00:21:24,570

right now in the beautiful and very very

429

00:21:29,120 --> 00:21:26,730

capable Kibo laboratory that was built

430

00:21:31,970 --> 00:21:29,130

by many many people in Japan over the

431

00:21:34,159 --> 00:21:31,980

course of over 20 years and you know we

432

00:21:35,870 --> 00:21:34,169

wanted to say that the strength of our

433

00:21:38,390 --> 00:21:35,880

international partnership lies in the

434

00:21:39,919 --> 00:21:38,400

fact that we are all together in the

435

00:21:42,320 --> 00:21:39,929

good times and the bad times and we

436

00:21:44,779 --> 00:21:42,330

support each other and the example that

437

00:21:47,090 --> 00:21:44,789

I'd like to give is during the space

438

00:21:47,990 --> 00:21:47,100

shuttle Columbia tragedy how all the

439

00:21:50,510 --> 00:21:48,000

partners of our international

440

00:21:53,180 --> 00:21:50,520

partnership stood together stood stood

441

00:21:54,950 --> 00:21:53,190

with the United States and together we

442

00:21:56,180 --> 00:21:54,960

will prevail through that we continue to

443

00:21:58,340 --> 00:21:56,190

construct the International Space

444

00:22:00,380 --> 00:21:58,350

Station and today we stand with our

445

00:22:02,630 --> 00:22:00,390

partners from jaksa and with the

446

00:22:04,909 --> 00:22:02,640

Japanese people in dealing with the

447

00:22:06,200 --> 00:22:04,919

tragedy in their country and we want to

448

00:22:07,880 --> 00:22:06,210

know that we were all with you and if

449

00:22:08,590 --> 00:22:07,890

there's a you know where our hearts go

450

00:22:11,260 --> 00:22:08,600

out to

451
00:22:13,360 --> 00:22:11,270
to everybody in Japan and you know we

452
00:22:16,720 --> 00:22:13,370
whatever we can do we would like to do

453
00:22:19,390 --> 00:22:16,730
from orbit and you know for all the

454
00:22:20,950 --> 00:22:19,400
people of Japan and it's just a great

455
00:22:23,290 --> 00:22:20,960
honor to be here in the Japanese

456
00:22:24,820 --> 00:22:23,300
laboratory on international space

457
00:22:26,980 --> 00:22:24,830
station on this wonderful day where we

458
00:22:29,350 --> 00:22:26,990
celebrate 50 years of human space flight

459
00:22:31,210 --> 00:22:29,360
and how all the the nations of the world

460
00:22:38,670 --> 00:22:31,220
come together and this in this wonderful