



HATCH

TO NOB

1  
00:00:09,110 --> 00:00:04,309  
station this is bbc world service radio

2  
00:00:13,509 --> 00:00:11,669  
we hear you loud and clear welcome

3  
00:00:15,589 --> 00:00:13,519  
aboard the space station

4  
00:00:17,269 --> 00:00:15,599  
thank you very much indeed it is very

5  
00:00:19,670 --> 00:00:17,279  
exciting to hear from you and and scott

6  
00:00:20,630 --> 00:00:19,680  
thank you for coming back on the program

7  
00:00:22,790 --> 00:00:20,640  
we have

8  
00:00:25,109 --> 00:00:22,800  
so many questions from outlook listeners

9  
00:00:27,109 --> 00:00:25,119  
so i'll plunge straight in you've been

10  
00:00:30,870 --> 00:00:27,119  
there for more than nine months now in

11  
00:00:33,750 --> 00:00:30,880  
this tiny enclosed space

12  
00:00:39,670 --> 00:00:33,760  
what has surprised you both most about

13  
00:00:43,670 --> 00:00:41,990

you know i i knew a year was a long time

14

00:00:45,670 --> 00:00:43,680

but i guess i really didn't know how

15

00:00:47,750 --> 00:00:45,680

long it was until i've been up here for

16

00:00:49,350 --> 00:00:47,760

nine months and have about two months

17

00:00:50,389 --> 00:00:49,360

ahead of us so

18

00:00:52,389 --> 00:00:50,399

um

19

00:00:54,069 --> 00:00:52,399

you know besides that i'd lived up here

20

00:00:56,069 --> 00:00:54,079

before so most of the other stuff was

21

00:01:03,029 --> 00:00:56,079

not a surprise

22

00:01:09,990 --> 00:01:06,390

no surprise for me i was ready to

23

00:01:11,429 --> 00:01:10,000

one year on space and agree with scott

24

00:01:16,469 --> 00:01:11,439

you agree with scott that time is

25

00:01:22,390 --> 00:01:19,670

i wouldn't say it's dragging but uh

26

00:01:24,830 --> 00:01:22,400

you know definitely there a year is a

27

00:01:27,350 --> 00:01:24,840

really long time to be be anywhere

28

00:01:29,190 --> 00:01:27,360

clearly we have a question from an

29

00:01:32,469 --> 00:01:29,200

outlook listener in india called

30

00:01:37,590 --> 00:01:32,479

yeshwanth kakala he says isn't it boring

31

00:01:42,630 --> 00:01:39,910

no i don't i can't say i've ever found

32

00:01:43,749 --> 00:01:42,640

myself bored uh there's a lot of work to

33

00:01:46,630 --> 00:01:43,759

do here

34

00:01:48,230 --> 00:01:46,640

we have uh over 400 different

35

00:01:50,230 --> 00:01:48,240

science experiments going on throughout

36

00:01:52,950 --> 00:01:50,240

the time i'm i'm here in all different

37

00:01:54,310 --> 00:01:52,960

scientific disciplines it takes a lot of

38

00:01:55,670 --> 00:01:54,320

uh

39

00:01:57,749 --> 00:01:55,680

you know a lot of effort to keep the

40

00:02:00,469 --> 00:01:57,759

space station running

41

00:02:02,230 --> 00:02:00,479

and i do find that i don't have enough

42

00:02:04,310 --> 00:02:02,240

uh free time to do the things that i

43

00:02:06,870 --> 00:02:04,320

would like to do in my free time so

44

00:02:13,830 --> 00:02:06,880

it's never uh it's always busy and never

45

00:02:19,430 --> 00:02:16,229

you know i miss uh i'm assuming you mean

46

00:02:21,430 --> 00:02:19,440

on on earth i miss uh you know

47

00:02:23,589 --> 00:02:21,440

the first thing is people you know these

48

00:02:24,470 --> 00:02:23,599

these guys are great but it'd be great

49

00:02:27,110 --> 00:02:24,480

to have

50

00:02:29,589 --> 00:02:27,120

you know your friends and family um with

51  
00:02:35,430 --> 00:02:32,710  
the other thing i miss is going outside

52  
00:02:37,190 --> 00:02:35,440  
you know the experiencing

53  
00:02:38,630 --> 00:02:37,200  
kind of a different uh

54  
00:02:39,670 --> 00:02:38,640  
you know environment

55  
00:02:40,869 --> 00:02:39,680  
um

56  
00:02:44,949 --> 00:02:40,879  
that

57  
00:02:47,190 --> 00:02:44,959  
is uh you know exposed to nature and uh

58  
00:02:49,830 --> 00:02:47,200  
also the freedom to kind of do things

59  
00:02:52,470 --> 00:02:49,840  
that you choose here we're on a very

60  
00:02:54,150 --> 00:02:52,480  
strict uh strict schedule

61  
00:02:56,229 --> 00:02:54,160  
which is necessary i mean there's a lot

62  
00:02:58,550 --> 00:02:56,239  
of a lot of work to do and it's very you

63  
00:03:00,949 --> 00:02:58,560

know closely choreographed so it has to

64

00:03:02,470 --> 00:03:00,959

be that way but having the you know the

65

00:03:04,070 --> 00:03:02,480

freedom to kind of choose what you're

66

00:03:04,869 --> 00:03:04,080

gonna do when you're going to do it is

67

00:03:06,390 --> 00:03:04,879

uh

68

00:03:07,670 --> 00:03:06,400

something i definitely notice i've

69

00:03:09,830 --> 00:03:07,680

missed

70

00:03:11,750 --> 00:03:09,840

mikael what's the thing that you found

71

00:03:16,070 --> 00:03:11,760

hardest to give up while you've been in

72

00:03:16,080 --> 00:03:27,830

of course yeah

73

00:03:30,789 --> 00:03:29,830

i would like to see the sky from the

74

00:03:32,630 --> 00:03:30,799

earth

75

00:03:33,910 --> 00:03:32,640

looking up

76  
00:03:36,470 --> 00:03:33,920  
how interesting because normally we're

77  
00:03:38,550 --> 00:03:36,480  
busy envying you seeing the earth

78  
00:03:42,550 --> 00:03:38,560  
looking down i mean

79  
00:03:42,560 --> 00:03:54,229  
virgo

80  
00:03:58,789 --> 00:03:56,390  
but of course i miss a lot of things i

81  
00:04:02,630 --> 00:03:58,799  
miss the earth in general

82  
00:04:04,949 --> 00:04:02,640  
and it is not a business trip on earth

83  
00:04:07,030 --> 00:04:04,959  
when we are training during our training

84  
00:04:08,949 --> 00:04:07,040  
trips we travel a lot

85  
00:04:11,750 --> 00:04:08,959  
we miss water

86  
00:04:12,869 --> 00:04:11,760  
running water grass forests

87  
00:04:16,870 --> 00:04:12,879  
family

88  
00:04:18,550 --> 00:04:16,880

friends women's home and of course uh it

89

00:04:22,870 --> 00:04:18,560

is a totally different feeling here that

90

00:04:25,110 --> 00:04:22,880

we experience we miss our homes

91

00:04:26,310 --> 00:04:25,120

when you come back to earth

92

00:04:38,469 --> 00:04:26,320

what do you think is the thing you will

93

00:04:44,629 --> 00:04:41,670

well if uh if you're asking me or both

94

00:04:47,189 --> 00:04:44,639

of us misha can answer after

95

00:04:48,710 --> 00:04:47,199

you know what i um

96

00:04:50,790 --> 00:04:48,720

what i'll definitely miss is doing

97

00:04:52,950 --> 00:04:50,800

something that's very very challenging

98

00:04:54,950 --> 00:04:52,960

something that takes a lot of effort and

99

00:04:57,270 --> 00:04:54,960

you know working hard at it and then

100

00:04:58,469 --> 00:04:57,280

being proud when you when you accomplish

101  
00:05:03,830 --> 00:04:58,479  
uh

102  
00:05:05,749 --> 00:05:03,840  
one of the things i've found to be the

103  
00:05:08,310 --> 00:05:05,759  
most enjoyable about being an astronaut

104  
00:05:10,550 --> 00:05:08,320  
it's a very challenging job and

105  
00:05:13,110 --> 00:05:10,560  
and i've enjoyed that part of it for you

106  
00:05:20,629 --> 00:05:13,120  
know almost the last 20 years

107  
00:05:25,430 --> 00:05:23,270  
maybe it will be unexpected but i

108  
00:05:28,150 --> 00:05:25,440  
will miss the station

109  
00:05:31,189 --> 00:05:28,160  
i will miss our crew

110  
00:05:35,029 --> 00:05:31,199  
i think we're very well knit crew a very

111  
00:05:39,830 --> 00:05:37,510  
i think this feeling is close to those

112  
00:05:47,110 --> 00:05:39,840  
people who

113  
00:05:49,270 --> 00:05:47,120

and

114

00:05:50,950 --> 00:05:49,280

you know that these travelers would like

115

00:05:52,790 --> 00:05:50,960

to go back to the north into the

116

00:05:54,870 --> 00:05:52,800

mountains again and again so it is a

117

00:05:57,350 --> 00:05:54,880

very similar feeling

118

00:05:59,430 --> 00:05:57,360

you say you'll miss the crew mikhail but

119

00:06:01,189 --> 00:05:59,440

be honest you know they must irritate

120

00:06:04,390 --> 00:06:01,199

you sometimes you're spending so much

121

00:06:32,629 --> 00:06:04,400

time cooped up together what is scott's

122

00:06:38,629 --> 00:06:35,510

nothing irritates me and annoys me

123

00:06:41,749 --> 00:06:38,639

in scott just like in any other crew

124

00:06:43,909 --> 00:06:42,550

here

125

00:06:45,309 --> 00:06:43,919

people are

126  
00:06:49,029 --> 00:06:45,319  
selected

127  
00:06:52,469 --> 00:06:49,039  
specifically not to have any bad habits

128  
00:06:54,790 --> 00:06:52,479  
we work together very well we are all

129  
00:06:55,909 --> 00:06:54,800  
friends and i feel very comfortable

130  
00:06:57,350 --> 00:06:55,919  
working

131  
00:07:00,150 --> 00:06:57,360  
with

132  
00:07:01,830 --> 00:07:00,160  
my crew and i'm sure that

133  
00:07:02,950 --> 00:07:01,840  
i will have the same feeling about them

134  
00:07:11,430 --> 00:07:02,960  
in future

135  
00:07:14,469 --> 00:07:12,790  
i uh

136  
00:07:16,390 --> 00:07:14,479  
is your question or you're asking me if

137  
00:07:17,830 --> 00:07:16,400  
i have any bad habits i'm asking you if

138  
00:07:23,510 --> 00:07:17,840

it's really true that you don't have any

139

00:07:26,230 --> 00:07:24,950

i've never really been asked that

140

00:07:27,350 --> 00:07:26,240

question before especially during an

141

00:07:29,270 --> 00:07:27,360

interview but

142

00:07:31,670 --> 00:07:29,280

yeah i guess i i i'm like you know

143

00:07:34,070 --> 00:07:31,680

anyone else there are certain bad habits

144

00:07:36,550 --> 00:07:34,080

that we we all probably have including

145

00:07:38,230 --> 00:07:36,560

yourself

146

00:07:39,589 --> 00:07:38,240

yeah i mean you're running all sorts of

147

00:07:41,189 --> 00:07:39,599

tests while you're up there to find out

148

00:07:42,469 --> 00:07:41,199

what's happening to you

149

00:07:45,430 --> 00:07:42,479

physically

150

00:07:52,550 --> 00:07:45,440

how are your senses being affected if at

151  
00:07:58,790 --> 00:07:55,990  
you know there is a uh an effect on our

152  
00:08:00,309 --> 00:07:58,800  
vision uh while we're up here and that's

153  
00:08:01,749 --> 00:08:00,319  
one of the things we're researching and

154  
00:08:02,790 --> 00:08:01,759  
we're actually putting a lot of effort

155  
00:08:03,830 --> 00:08:02,800  
into that

156  
00:08:05,189 --> 00:08:03,840  
um

157  
00:08:06,950 --> 00:08:05,199  
we're doing this experiment actually

158  
00:08:08,469 --> 00:08:06,960  
we'll be doing it next week in the in

159  
00:08:10,950 --> 00:08:08,479  
the russian segment where we put a

160  
00:08:13,110 --> 00:08:10,960  
negative pressure on our body so we can

161  
00:08:15,510 --> 00:08:13,120  
control the fluid shift to our head and

162  
00:08:16,790 --> 00:08:15,520  
and with certain imaging

163  
00:08:22,710 --> 00:08:16,800

uh

164

00:08:24,309 --> 00:08:22,720

you know the effect of this this fluid

165

00:08:25,670 --> 00:08:24,319

shift is to our vision

166

00:08:27,990 --> 00:08:25,680

so um

167

00:08:29,749 --> 00:08:28,000

you know there's that change in in sense

168

00:08:31,990 --> 00:08:29,759

maybe a little bit of change

169

00:08:34,790 --> 00:08:32,000

in your sense of smell again because of

170

00:08:37,110 --> 00:08:34,800

this uh fluid shift we experience

171

00:08:39,190 --> 00:08:37,120

um but most others are are pretty much

172

00:08:41,670 --> 00:08:39,200

the same

173

00:08:43,190 --> 00:08:41,680

michael we heard from scott that sense

174

00:08:45,990 --> 00:08:43,200

of smell is affected maybe a little bit

175

00:08:48,470 --> 00:08:46,000

what does it smell up a smell like up

176

00:09:13,269 --> 00:08:48,480

there a question from abu bakr who lives

177

00:09:16,630 --> 00:09:14,310

you know

178

00:09:18,550 --> 00:09:16,640

nine months is a long

179

00:09:19,430 --> 00:09:18,560

period of time

180

00:09:23,670 --> 00:09:19,440

to

181

00:09:27,509 --> 00:09:23,680

miss the earth so much that you

182

00:09:30,310 --> 00:09:27,519

choose to start feeling

183

00:09:33,670 --> 00:09:30,320

some smelling some

184

00:09:35,509 --> 00:09:33,680

odors smells that we

185

00:09:38,070 --> 00:09:35,519

did not notice before

186

00:09:41,509 --> 00:09:38,080

like recently i thought i started

187

00:09:43,590 --> 00:09:41,519

smelling the forest or dill

188

00:09:45,509 --> 00:09:43,600

that is a condiment

189

00:09:47,269 --> 00:09:45,519

that is very popular in russia that we

190

00:09:49,590 --> 00:09:47,279

grow in russia

191

00:09:51,110 --> 00:09:49,600

so such interesting

192

00:09:53,670 --> 00:09:51,120

smells

193

00:09:57,590 --> 00:09:53,680

uh appear from time to time it's a very

194

00:10:02,069 --> 00:09:59,590

how does smell travel in the space

195

00:10:13,269 --> 00:10:02,079

station what happens to the smells that

196

00:10:18,870 --> 00:10:17,269

we we have a a system that scrubs the

197

00:10:20,630 --> 00:10:18,880

atmosphere

198

00:10:23,670 --> 00:10:20,640

of

199

00:10:24,949 --> 00:10:23,680

trace contaminants it's called

200

00:10:27,269 --> 00:10:24,959

and it

201  
00:10:30,150 --> 00:10:27,279  
you know anything that's small

202  
00:10:32,550 --> 00:10:30,160  
particles and including smell

203  
00:10:35,110 --> 00:10:32,560  
is removed from the atmosphere using

204  
00:10:37,030 --> 00:10:35,120  
this uh system

205  
00:10:39,509 --> 00:10:37,040  
okay final question from an outlook

206  
00:10:42,150 --> 00:10:39,519  
listener jacob santa marta burrell um

207  
00:10:44,069 --> 00:10:42,160  
who's in spain how do you both feel

208  
00:11:07,990 --> 00:10:44,079  
about coming back home and realizing

209  
00:11:11,110 --> 00:11:09,829  
i look forward to coming home in a

210  
00:11:12,870 --> 00:11:11,120  
couple of months certainly you know i

211  
00:11:15,110 --> 00:11:12,880  
enjoyed my time here

212  
00:11:17,190 --> 00:11:15,120  
uh you know feel like we accomplished a

213  
00:11:19,269 --> 00:11:17,200

lot but you know i still

214

00:11:26,230 --> 00:11:19,279

look forward to getting back to uh back

215

00:11:30,069 --> 00:11:28,389

we have constant communication with

216

00:11:32,630 --> 00:11:30,079

earth we have

217

00:11:34,310 --> 00:11:32,640

uh phone communication and video

218

00:11:37,030 --> 00:11:34,320

conferences and

219

00:11:39,670 --> 00:11:37,040

we receive all the news and i don't

220

00:11:42,710 --> 00:11:39,680

expect any huge changes on earth when i

221

00:11:45,190 --> 00:11:42,720

come back i would like to say the same

222

00:11:47,670 --> 00:11:45,200

thing as scott i looking forward to

223

00:11:49,829 --> 00:11:47,680

going back home i will be enjoying the

224

00:11:53,910 --> 00:11:49,839

first days the first months

225

00:11:55,590 --> 00:11:53,920

back on earth we will be in star city

226

00:11:58,150 --> 00:11:55,600

then we'll go to houston i love this

227

00:11:59,509 --> 00:11:58,160

city and i think it will be a great time

228

00:12:01,430 --> 00:11:59,519

for us

229

00:12:03,430 --> 00:12:01,440

being up there and away from home for so

230

00:12:05,990 --> 00:12:03,440

long does it make you think differently

231

00:12:14,470 --> 00:12:06,000

about your life on earth and more

232

00:12:19,670 --> 00:12:17,430

it does give you a unique uh perspective

233

00:12:20,550 --> 00:12:19,680

on the planet you know seeing it from up

234

00:12:22,790 --> 00:12:20,560

here

235

00:12:25,670 --> 00:12:24,790

you know you do notice uh

236

00:12:28,949 --> 00:12:25,680

you know

237

00:12:30,069 --> 00:12:28,959

changes that i think are occurring um on

238

00:12:31,590 --> 00:12:30,079

earth

239

00:12:33,269 --> 00:12:31,600

so

240

00:13:00,069 --> 00:12:33,279

you know you do you do feel a little bit

241

00:13:03,670 --> 00:13:01,750

well i don't do things differently on

242

00:13:07,030 --> 00:13:03,680

the station

243

00:13:10,069 --> 00:13:07,040

according to our procedures

244

00:13:12,949 --> 00:13:10,079

and of course i'm not slowing down my

245

00:13:15,509 --> 00:13:12,959

pace of work before the landing usually

246

00:13:17,670 --> 00:13:15,519

it happens that the closer the return

247

00:13:20,150 --> 00:13:17,680

home is the

248

00:13:30,470 --> 00:13:20,160

slower you start working no this is not

249

00:13:37,269 --> 00:13:34,470

well talking about any changes in work

250

00:13:39,829 --> 00:13:37,279

i think that

251  
00:13:41,350 --> 00:13:39,839  
when you look at our earth from here you

252  
00:13:42,150 --> 00:13:41,360  
understand that

253  
00:13:44,069 --> 00:13:42,160  
you

254  
00:13:48,150 --> 00:13:44,079  
totally we totally need to understand

255  
00:13:52,470 --> 00:13:48,160  
that we have to take care of our earth

256  
00:13:54,870 --> 00:13:52,480  
and uh i was on kilimanjaro in 2007 and

257  
00:13:56,949 --> 00:13:54,880  
right now looking down to earth i don't

258  
00:13:58,629 --> 00:13:56,959  
see the snow cap on that mountain

259  
00:13:59,750 --> 00:13:58,639  
anymore

260  
00:14:02,150 --> 00:13:59,760  
so

261  
00:14:04,150 --> 00:14:02,160  
i believe that we have to be very

262  
00:14:05,910 --> 00:14:04,160  
careful with our earth until it's too

263  
00:14:11,829 --> 00:14:05,920

late thank you both so much for taking

264

00:14:11,839 --> 00:14:15,269

you're welcome

265

00:14:19,990 --> 00:14:17,590

station this is houston acr that

266

00:14:25,590 --> 00:14:20,000

concludes the bbc world service radio

267

00:14:29,509 --> 00:14:27,590

thank you bbc world service radio