



esa  
European Space Agency



esa

ESA  
A. GERST  
A. FERCI



ESA

1  
00:00:10,150 --> 00:00:03,830  
station this is issa pio

2  
00:00:14,629 --> 00:00:12,709  
hello jewel welcome to the international

3  
00:00:19,830 --> 00:00:14,639  
space station i can hear you loud and

4  
00:00:25,269 --> 00:00:22,150  
and i now introduce you to sabine

5  
00:00:28,870 --> 00:00:27,189  
hello here guys hello

6  
00:00:31,029 --> 00:00:28,880  
guest

7  
00:00:34,310 --> 00:00:31,039  
i'm very happy to

8  
00:00:35,270 --> 00:00:34,320  
send you greetings from munster

9  
00:00:42,389 --> 00:00:35,280  
uh

10  
00:00:56,950 --> 00:00:42,399  
many thanks that's a great honor for us

11  
00:01:01,029 --> 00:00:58,470  
peace prize

12  
00:01:02,549 --> 00:01:01,039  
is the uh collaboration of international

13  
00:01:06,630 --> 00:01:02,559

partners

14

00:01:09,350 --> 00:01:06,640

who are collaborating in such conditions

15

00:01:12,230 --> 00:01:09,360

um tell us a little bit about your daily

16

00:01:14,390 --> 00:01:12,240

life in space yeah before she would have

17

00:01:16,950 --> 00:01:14,400

gone been funny well before i even uh

18

00:01:18,630 --> 00:01:16,960

came up here i was always fascinated by

19

00:01:20,550 --> 00:01:18,640

the fact uh

20

00:01:22,070 --> 00:01:20,560

that the fact that the iss was one of

21

00:01:29,270 --> 00:01:22,080

the most complex

22

00:01:32,710 --> 00:01:31,109

uh from many different countries if you

23

00:01:34,630 --> 00:01:32,720

just think about this it seems

24

00:01:36,630 --> 00:01:34,640

incredible

25

00:01:37,429 --> 00:01:36,640

if i didn't know for sure it existed i

26

00:01:43,429 --> 00:01:37,439

would

27

00:01:45,830 --> 00:01:43,439

but by now i'm up here and we're working

28

00:01:49,350 --> 00:01:45,840

together and

29

00:01:50,550 --> 00:01:49,360

we come from three different continents

30

00:02:04,630 --> 00:01:50,560

at this time

31

00:02:20,630 --> 00:02:06,389

collaboration and cooperation is

32

00:02:25,510 --> 00:02:22,550

from different cultures and countries

33

00:02:27,990 --> 00:02:25,520

it's much easier than you think

34

00:02:29,190 --> 00:02:28,000

you have to keep in mind

35

00:02:30,630 --> 00:02:29,200

the three of us

36

00:02:32,470 --> 00:02:30,640

know each other have known each other

37

00:02:34,309 --> 00:02:32,480

for years

38

00:02:36,550 --> 00:02:34,319

and we've been working together very

39

00:02:38,550 --> 00:02:36,560

closely

40

00:02:42,550 --> 00:02:38,560

together and we've traveled together to

41

00:02:47,190 --> 00:02:45,270

i've i know max and reed and i've had

42

00:02:49,430 --> 00:02:47,200

the opportunity to show them

43

00:02:51,990 --> 00:02:49,440

cologne and germany

44

00:02:53,589 --> 00:02:52,000

we've been to america together and we

45

00:02:55,830 --> 00:02:53,599

know the cultures and the countries of

46

00:02:57,270 --> 00:02:55,840

each other and we're very good friends

47

00:03:02,470 --> 00:02:57,280

and

48

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

we know how each other's culture works

49

00:03:09,110 --> 00:03:06,400

and we're tolerant

50

00:03:11,589 --> 00:03:09,120

and we have a lot of fun together

51  
00:03:14,550 --> 00:03:11,599  
here and that's

52  
00:03:16,869 --> 00:03:14,560  
like that transcends all cultures

53  
00:03:19,350 --> 00:03:16,879  
and that's it's humor that transcends

54  
00:03:21,430 --> 00:03:19,360  
all cultures

55  
00:03:22,949 --> 00:03:21,440  
very useful in daily life we laugh a lot

56  
00:03:25,589 --> 00:03:22,959  
together

57  
00:03:27,830 --> 00:03:25,599  
although max right now is uh

58  
00:03:30,789 --> 00:03:27,840  
alone in the russian

59  
00:03:33,430 --> 00:03:30,799  
and i've been over there in the russian

60  
00:03:35,589 --> 00:03:33,440  
module and we bring each other coffee or

61  
00:03:36,630 --> 00:03:35,599  
we eat something together and it's all

62  
00:03:40,869 --> 00:03:36,640  
very

63  
00:03:45,509 --> 00:03:42,869

as peaceful and as friendly

64

00:03:49,350 --> 00:03:45,519

uh as it is up there it's unfortunately

65

00:03:54,390 --> 00:03:52,470

then there's so many crises here how

66

00:03:56,390 --> 00:03:54,400

intensely are you occupied with the

67

00:03:57,350 --> 00:03:56,400

crises in the ukraine and in the middle

68

00:03:59,589 --> 00:03:57,360

east

69

00:04:01,589 --> 00:03:59,599

syria

70

00:04:02,710 --> 00:04:01,599

we're aware of it and we we all watch

71

00:04:06,309 --> 00:04:02,720

the news

72

00:04:11,350 --> 00:04:09,030

and it concerns us especially since we

73

00:04:15,270 --> 00:04:11,360

can see it from up here we can really

74

00:04:17,909 --> 00:04:15,280

see uh rockets flying we can see uh

75

00:04:19,349 --> 00:04:17,919

fires and cities and we can see the uh

76

00:04:22,150 --> 00:04:19,359

environmental

77

00:04:24,790 --> 00:04:22,160

uh pollution and it really touches you

78

00:04:27,830 --> 00:04:24,800

when you see it from up here and

79

00:04:29,749 --> 00:04:27,840

and you see how fragile the earth is and

80

00:04:33,510 --> 00:04:29,759

you can really see that from up here and

81

00:04:39,830 --> 00:04:35,990

from our unique perspective

82

00:04:39,840 --> 00:04:54,550

basically

83

00:04:54,560 --> 00:05:19,909

we all

84

00:05:24,390 --> 00:05:22,310

do you have uh

85

00:05:26,310 --> 00:05:24,400

instances where your opinions

86

00:05:28,150 --> 00:05:26,320

uh collide

87

00:05:30,390 --> 00:05:28,160

well one thing in particular that's

88

00:05:31,830 --> 00:05:30,400

important when you live together

89

00:05:34,150 --> 00:05:31,840

in the iss

90

00:05:36,390 --> 00:05:34,160

and we learned that in our training

91

00:05:40,790 --> 00:05:36,400

and we learned to be sensitive

92

00:05:45,749 --> 00:05:43,510

respect for the opinion and culture of

93

00:05:50,629 --> 00:05:45,759

uh the other people without trying to

94

00:05:50,639 --> 00:06:04,550

it's

95

00:06:08,950 --> 00:06:07,029

we tried to uh take a step back and and

96

00:06:10,469 --> 00:06:08,960

um have a different perspective when

97

00:06:15,189 --> 00:06:10,479

we're up here

98

00:06:22,150 --> 00:06:17,510

and we were able to look at the earth uh

99

00:06:29,510 --> 00:06:24,309

yeah in a way that's really not possible

100

00:06:34,790 --> 00:06:31,350

that you see

101  
00:06:39,670 --> 00:06:37,189  
this distance of 400 kilometers has that

102  
00:06:41,990 --> 00:06:39,680  
changed your perspective of the earth

103  
00:06:44,390 --> 00:06:42,000  
yeah definitely definitely

104  
00:06:45,670 --> 00:06:44,400  
it's it's changed

105  
00:06:56,710 --> 00:06:45,680  
i would not have thought it possible

106  
00:07:00,469 --> 00:06:58,950  
but if you see it with your own eyes it

107  
00:07:02,950 --> 00:07:00,479  
does make a difference

108  
00:07:05,110 --> 00:07:02,960  
and it did surprise me i must

109  
00:07:07,749 --> 00:07:05,120  
say to see it that way

110  
00:07:09,990 --> 00:07:07,759  
very very fragile

111  
00:07:12,950 --> 00:07:10,000  
and to see it with your own eyes

112  
00:07:13,830 --> 00:07:12,960  
or you have to see it with your own eyes

113  
00:07:29,110 --> 00:07:13,840

then you

114

00:07:34,550 --> 00:07:31,749

try in any way i can

115

00:07:40,230 --> 00:07:34,560

to bring back this uh perspective back

116

00:07:40,240 --> 00:07:44,790

what are your most beautiful

117

00:07:49,270 --> 00:07:47,430

uh on the iss and what what are some of

118

00:07:50,790 --> 00:07:49,280

the things you could do without

119

00:07:52,309 --> 00:07:50,800

well the most beautiful moments are

120

00:07:54,150 --> 00:07:52,319

definitely

121

00:07:56,309 --> 00:07:54,160

the moments of friendship when we're all

122

00:08:00,070 --> 00:07:56,319

together laughing

123

00:08:04,790 --> 00:08:02,150

that happens quite a bit

124

00:08:06,309 --> 00:08:04,800

and looking out the window and seeing

125

00:08:07,670 --> 00:08:06,319

things that we've never seen before i

126  
00:08:09,510 --> 00:08:07,680  
remember

127  
00:08:11,749 --> 00:08:09,520  
when i started

128  
00:08:14,230 --> 00:08:11,759  
shortly after the start that's my

129  
00:08:16,869 --> 00:08:14,240  
you have your head full of technical

130  
00:08:19,830 --> 00:08:16,879  
things that you have to concentrate on

131  
00:08:21,589 --> 00:08:19,840  
and uh eight minutes after the launch of

132  
00:08:23,270 --> 00:08:21,599  
the rockets when you

133  
00:08:25,990 --> 00:08:23,280  
zero gravity

134  
00:08:27,430 --> 00:08:26,000  
starts and you look out the window

135  
00:08:31,670 --> 00:08:27,440  
and you see

136  
00:08:34,389 --> 00:08:31,680  
that curve

137  
00:08:37,110 --> 00:08:34,399  
and you realize for the first time

138  
00:08:38,389 --> 00:08:37,120

i really am in space and before it was

139

00:08:41,190 --> 00:08:38,399

only a

140

00:08:42,949 --> 00:08:41,200

dream and that really threw me over

141

00:08:45,190 --> 00:08:42,959

threw me for a loop and that's that that

142

00:08:46,870 --> 00:08:45,200

was one of the most grandiose moments

143

00:08:51,590 --> 00:08:46,880

for me

144

00:08:56,550 --> 00:08:53,350

how does this

145

00:09:00,070 --> 00:08:56,560

city in west failure look from uh space

146

00:09:03,910 --> 00:09:02,630

i think i've seen it once or twice

147

00:09:10,470 --> 00:09:03,920

it's

148

00:09:16,630 --> 00:09:12,310

you have to look at the forest and the

149

00:09:20,389 --> 00:09:18,710

you have to keep in mind that

150

00:09:22,790 --> 00:09:20,399

at the same time i can see iceland and

151  
00:09:25,110 --> 00:09:22,800  
turkey and it just takes a few seconds

152  
00:09:27,269 --> 00:09:25,120  
to fly over minster i'm going to try in

153  
00:09:28,870 --> 00:09:27,279  
the next few days

154  
00:09:30,230 --> 00:09:28,880  
to take a picture of minster and i'm

155  
00:09:32,870 --> 00:09:30,240  
going to send it to you if i'm

156  
00:09:37,350 --> 00:09:34,710  
alex that will be fantastic

157  
00:09:39,990 --> 00:09:37,360  
alexander many many thanks

158  
00:09:41,190 --> 00:09:40,000  
have a wonderful time up there uh

159  
00:09:46,070 --> 00:09:41,200  
remaining

160  
00:09:48,949 --> 00:09:46,080  
have a safe trip home all the best to

161  
00:09:53,509 --> 00:09:51,030  
we continue to wish

162  
00:09:55,030 --> 00:09:53,519  
our planet all of us up here wish the

163  
00:09:57,350 --> 00:09:55,040

planet uh

164

00:10:01,829 --> 00:09:57,360

peace

165

00:10:06,790 --> 00:10:04,389

station we now go to the second portion

166

00:10:10,230 --> 00:10:06,800

of the event and i will ask you a few

167

00:10:13,509 --> 00:10:10,240

questions on behalf of exploration the

168

00:10:15,990 --> 00:10:13,519

exploration event in glasgow

169

00:10:17,190 --> 00:10:16,000

and the first question come from ailey

170

00:10:18,630 --> 00:10:17,200

h10

171

00:10:20,550 --> 00:10:18,640

and the question is

172

00:10:26,710 --> 00:10:20,560

what did you study at school that helped

173

00:10:30,949 --> 00:10:29,269

hello ailee hello glasgow

174

00:10:33,750 --> 00:10:30,959

welcome to the international space

175

00:10:35,350 --> 00:10:33,760

station it's my honor and pleasure to

176

00:10:37,590 --> 00:10:35,360

talk to you today

177

00:10:39,350 --> 00:10:37,600

especially since you have an exploration

178

00:10:41,670 --> 00:10:39,360

meeting a conference

179

00:10:43,910 --> 00:10:41,680

i would love to be there but the second

180

00:10:46,470 --> 00:10:43,920

best thing of being there myself is

181

00:10:47,670 --> 00:10:46,480

talking to you right now through camera

182

00:10:49,910 --> 00:10:47,680

now

183

00:10:52,389 --> 00:10:49,920

the question is really good

184

00:10:54,069 --> 00:10:52,399

what did i do in in school

185

00:10:56,550 --> 00:10:54,079

that helped me become an astronaut i

186

00:10:58,550 --> 00:10:56,560

think it's mainly

187

00:11:00,550 --> 00:10:58,560

paying attention to what's going on

188

00:11:03,990 --> 00:11:00,560

around you in life

189

00:11:07,350 --> 00:11:04,000

to keep awareness of well yeah what what

190

00:11:10,150 --> 00:11:07,360

world does uh physics nature

191

00:11:13,030 --> 00:11:10,160

sciences uh that's that's all subject

192

00:11:15,190 --> 00:11:13,040

that really helped help me in the end

193

00:11:17,910 --> 00:11:15,200

for my well for becoming a scientist at

194

00:11:19,829 --> 00:11:17,920

first and then uh for uh applying as an

195

00:11:22,150 --> 00:11:19,839

astronaut i think in general it's really

196

00:11:24,069 --> 00:11:22,160

good to be curious and also if you have

197

00:11:26,630 --> 00:11:24,079

a plan if you have a dream and you you

198

00:11:29,030 --> 00:11:26,640

give it a chance try to try to stick to

199

00:11:30,630 --> 00:11:29,040

it don't give up halfway and that's

200

00:11:35,990 --> 00:11:30,640

really something that can help you a lot

201  
00:11:40,310 --> 00:11:37,750  
we have another question from the young

202  
00:11:46,069 --> 00:11:40,320  
evan taylor who wondered how many

203  
00:11:50,949 --> 00:11:48,310  
you know that's a really good question

204  
00:11:53,190 --> 00:11:50,959  
because i got a hint that somebody would

205  
00:11:55,910 --> 00:11:53,200  
ask this question possibly so

206  
00:11:58,629 --> 00:11:55,920  
two hours ago i asked mission control if

207  
00:12:00,870 --> 00:11:58,639  
they knew the answer to that questions

208  
00:12:02,389 --> 00:12:00,880  
and since then they have not come back

209  
00:12:03,590 --> 00:12:02,399  
to me so

210  
00:12:05,590 --> 00:12:03,600  
i think

211  
00:12:07,590 --> 00:12:05,600  
you've done well

212  
00:12:09,269 --> 00:12:07,600  
you ask a question that even the the

213  
00:12:12,629 --> 00:12:09,279

famous mission control in houston could

214

00:12:14,629 --> 00:12:12,639

not answer so my rough guess is

215

00:12:17,350 --> 00:12:14,639

a lot

216

00:12:19,190 --> 00:12:17,360

many thousands and it seems to me like

217

00:12:25,190 --> 00:12:19,200

about as many as there are stars in the

218

00:12:30,790 --> 00:12:27,430

and the next question comes from caitlin

219

00:12:33,829 --> 00:12:30,800

ravenscroft aged 11 and she wondered if

220

00:12:39,750 --> 00:12:33,839

you could move the iss to any planet

221

00:12:43,190 --> 00:12:41,430

you know i really have to say this is

222

00:12:44,389 --> 00:12:43,200

one of the best questions that i've ever

223

00:12:46,230 --> 00:12:44,399

been asked

224

00:12:48,230 --> 00:12:46,240

and uh thinking about this the first

225

00:12:49,670 --> 00:12:48,240

thing that comes to my mind is

226

00:12:52,230 --> 00:12:49,680

without even

227

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

really thinking why is saturn i always

228

00:12:56,389 --> 00:12:54,160

wanted to see saturn and it would be so

229

00:12:58,470 --> 00:12:56,399

fascinating to be in an orbit about

230

00:13:00,550 --> 00:12:58,480

around the planet that this that is this

231

00:13:03,750 --> 00:13:00,560

beautiful but then when i think about it

232

00:13:05,670 --> 00:13:03,760

a little more like if i didn't know

233

00:13:08,710 --> 00:13:05,680

earth so well

234

00:13:10,550 --> 00:13:08,720

then i would say well by far the most

235

00:13:12,550 --> 00:13:10,560

fascinating planet and the most

236

00:13:14,629 --> 00:13:12,560

beautiful planet and the most suitable

237

00:13:16,790 --> 00:13:14,639

planet for an international space

238

00:13:19,670 --> 00:13:16,800

station is earth

239

00:13:21,990 --> 00:13:19,680

and this is where we are and uh yeah if

240

00:13:24,550 --> 00:13:22,000

i look out the window then i really know

241

00:13:26,949 --> 00:13:24,560

why this is a fascinating planet it's

242

00:13:29,350 --> 00:13:26,959

our only home it's our only place where

243

00:13:35,350 --> 00:13:29,360

humans can live and that's why i love

244

00:13:39,030 --> 00:13:37,030

thank you and we now we have also the

245

00:13:41,030 --> 00:13:39,040

young jennifer wondered

246

00:13:42,949 --> 00:13:41,040

about food and she says food must be

247

00:13:44,710 --> 00:13:42,959

tricky on the space station

248

00:13:49,189 --> 00:13:44,720

how do you prepare your meals and do you

249

00:13:55,110 --> 00:13:51,990

yeah food is indeed tricky uh up here

250

00:13:57,910 --> 00:13:55,120

basically you always have to prepared

251

00:13:59,509 --> 00:13:57,920

already in the form that you uh eat it

252

00:14:01,269 --> 00:13:59,519

like it's it's not like cooking at home

253

00:14:03,189 --> 00:14:01,279

where you mix many things and then you

254

00:14:04,069 --> 00:14:03,199

prepare something like most of it is

255

00:14:06,230 --> 00:14:04,079

already

256

00:14:08,629 --> 00:14:06,240

prepared in pouches like this one so

257

00:14:11,030 --> 00:14:08,639

this is just drinking water but we have

258

00:14:13,430 --> 00:14:11,040

like tea and orange juice in these and

259

00:14:15,670 --> 00:14:13,440

then we also have cans that we can just

260

00:14:17,430 --> 00:14:15,680

open and it actually tastes quite well

261

00:14:18,710 --> 00:14:17,440

we have dehydrated food where we put

262

00:14:22,069 --> 00:14:18,720

water in

263

00:14:23,430 --> 00:14:22,079

and put in the food heater so all sorts

264

00:14:25,430 --> 00:14:23,440

of different kinds

265

00:14:26,949 --> 00:14:25,440

of course i have favorites after a while

266

00:14:28,550 --> 00:14:26,959

you really develop that and you really

267

00:14:31,189 --> 00:14:28,560

know what you like and what you don't

268

00:14:32,790 --> 00:14:31,199

like my favorites it's kind of weird but

269

00:14:34,790 --> 00:14:32,800

it's granola

270

00:14:36,389 --> 00:14:34,800

we really all love granola up here for

271

00:14:42,829 --> 00:14:36,399

breakfast and maybe it's because we

272

00:14:48,790 --> 00:14:45,910

that that sounds really good we um we

273

00:14:49,750 --> 00:14:48,800

have another question from brian h10 and

274

00:14:52,230 --> 00:14:49,760

he says

275

00:14:58,550 --> 00:14:52,240

when you're in space in zero gravity do

276

00:15:02,389 --> 00:15:00,150

hey brian that's also an excellent

277

00:15:05,590 --> 00:15:02,399

question because i did have that feeling

278

00:15:08,310 --> 00:15:05,600

right after our rocket burned out on our

279

00:15:10,790 --> 00:15:08,320

launch i felt like this for three hours

280

00:15:13,189 --> 00:15:10,800

um i felt well in in weightlessness i

281

00:15:15,269 --> 00:15:13,199

did not get sick my stomach didn't feel

282

00:15:17,269 --> 00:15:15,279

upset at all but what i did feel is like

283

00:15:18,389 --> 00:15:17,279

i was hanging upside down like a bat

284

00:15:20,710 --> 00:15:18,399

from the roof

285

00:15:22,710 --> 00:15:20,720

from the ceiling uh in in our little

286

00:15:24,870 --> 00:15:22,720

rocket even though i was strapped in and

287

00:15:27,430 --> 00:15:24,880

and that went away pretty soon

288

00:15:29,990 --> 00:15:27,440

and then uh even in here like if i'm in

289

00:15:32,870 --> 00:15:30,000

the columbus module like right now and i

290

00:15:35,829 --> 00:15:32,880

turn upside down and i look around it

291

00:15:37,749 --> 00:15:35,839

all seems upside down i i it feels

292

00:15:39,110 --> 00:15:37,759

unfamiliar i wouldn't find things i

293

00:15:40,629 --> 00:15:39,120

don't even know where i just put my

294

00:15:42,790 --> 00:15:40,639

water bottle was it over there no

295

00:15:45,910 --> 00:15:42,800

actually it was over there so our brain

296

00:15:49,189 --> 00:15:45,920

is used to upside down and right side up

297

00:15:51,590 --> 00:15:49,199

and that is even true in space for some

298

00:15:53,509 --> 00:15:51,600

well weird reason maybe our human mind

299

00:15:56,870 --> 00:15:53,519

cannot adapt that quickly

300

00:15:58,550 --> 00:15:56,880

i bet if some time a child will be born

301

00:16:00,389 --> 00:15:58,560

in weightlessness and be raised in

302

00:16:01,910 --> 00:16:00,399

weightlessness it will be completely

303

00:16:04,150 --> 00:16:01,920

different for them maybe there will be

304

00:16:05,910 --> 00:16:04,160

much better in that orientation in the

305

00:16:10,949 --> 00:16:05,920

three dimensions that that i am right

306

00:16:15,990 --> 00:16:13,189

that sounds really fascinating we have a

307

00:16:18,230 --> 00:16:16,000

last question from jody's also h10 and

308

00:16:20,629 --> 00:16:18,240

he's asking himself

309

00:16:27,670 --> 00:16:20,639

can you see all the planets from up on

310

00:16:33,269 --> 00:16:30,949

hey jody yes so i think we we can see

311

00:16:34,790 --> 00:16:33,279

most of the planets at least in theory

312

00:16:36,470 --> 00:16:34,800

the ones that are really bright that are

313

00:16:38,470 --> 00:16:36,480

really close to the sun they're easy to

314

00:16:39,670 --> 00:16:38,480

see sometimes if they're too close to

315

00:16:41,590 --> 00:16:39,680

the sun of course you don't see them

316

00:16:44,550 --> 00:16:41,600

because the sun blinds you but then

317

00:16:46,470 --> 00:16:44,560

again up here it's really nice because

318

00:16:48,629 --> 00:16:46,480

once the sun sets

319

00:16:50,710 --> 00:16:48,639

the sky is completely black even even

320

00:16:52,150 --> 00:16:50,720

though the sun has just set so we can

321

00:16:54,710 --> 00:16:52,160

even see the planets that are really

322

00:16:57,030 --> 00:16:54,720

close to the sun the ones further out

323

00:16:58,550 --> 00:16:57,040

they're not as not as bright but well in

324

00:17:01,269 --> 00:16:58,560

general we can see them if we look at

325

00:17:03,269 --> 00:17:01,279

the the stars we can see many many more

326

00:17:05,750 --> 00:17:03,279

stars that we can see on earth like even

327

00:17:08,069 --> 00:17:05,760

in the in the the darkest desert that

328

00:17:10,150 --> 00:17:08,079

i've ever looked at the sky um was not

329

00:17:13,429 --> 00:17:10,160

even close to seeing like the milky way

330

00:17:15,669 --> 00:17:13,439

up here and you can see in nebulae uh

331

00:17:17,350 --> 00:17:15,679

other galaxies and it's amazing and

332

00:17:19,750 --> 00:17:17,360

sometimes you even see shooting stars

333

00:17:21,590 --> 00:17:19,760

entering the earth's atmosphere below us

334

00:17:23,270 --> 00:17:21,600

and that's an amazing thing if you think

335

00:17:25,429 --> 00:17:23,280

about it because like those shooting

336

00:17:31,669 --> 00:17:25,439

stars they just zipped past us and then

337

00:17:35,270 --> 00:17:33,510

that sounds a little bit scary alex this

338

00:17:36,950 --> 00:17:35,280

was the last question i'm sending you

339

00:17:42,470 --> 00:17:36,960

all the greetings from glasgow

340

00:17:46,870 --> 00:17:44,630

thanks a lot all the best back to

341

00:17:49,430 --> 00:17:46,880

glasgow university and

342

00:17:51,190 --> 00:17:49,440

it was great to talk to you and

343

00:17:56,310 --> 00:17:51,200

goodbye from the international space

344

00:18:02,310 --> 00:17:58,830

thank you station that concludes the

345

00:18:05,909 --> 00:18:02,320

event and station this is houston acr

346

00:18:09,750 --> 00:18:05,919

thank you that concludes our event

347

00:18:11,190 --> 00:18:09,760

thank you issa and wdr tv station we are