



1
00:00:42,879 --> 00:01:00,069
it ain't no country club

2
00:01:00,079 --> 00:01:10,950
he

3
00:01:10,960 --> 00:01:25,030
fun in his says

4
00:01:25,040 --> 00:01:42,870
on that lunch life

5
00:02:34,630 --> 00:01:58,789
is

6
00:02:44,309 --> 00:02:36,070
good morning endeavor welcome to flight

7
00:02:49,270 --> 00:02:46,150
morning good morning houston and we're

8
00:02:53,990 --> 00:02:49,280
ready to have some more fun

9
00:02:58,390 --> 00:02:56,070
yeah that was a great selection carl i

10
00:06:08,070 --> 00:02:58,400
really loved it

11
00:06:15,430 --> 00:06:09,590
houston looks like a nice night down

12
00:06:20,309 --> 00:06:17,990
now brent we have the weather

13
00:06:21,909 --> 00:06:20,319

radar and the visible satellite picture

14

00:06:24,230 --> 00:06:21,919

up on our screens right now and there is

15

00:06:25,590 --> 00:06:24,240

a front coming by we're clear now but we

16

00:06:27,110 --> 00:06:25,600

expect some

17

00:06:28,870 --> 00:06:27,120

squall weather

18

00:06:30,550 --> 00:06:28,880

towards morning here

19

00:06:32,629 --> 00:06:30,560

glad you got a good look

20

00:06:34,150 --> 00:06:32,639

yeah tom we just passed right overhead

21

00:06:36,550 --> 00:06:34,160

and we could see that stuff out to the

22

00:06:37,909 --> 00:06:36,560

north and west

23

00:06:39,430 --> 00:06:37,919

we're just concerned that it goes

24

00:06:44,150 --> 00:06:39,440

through florida by the time you guys are

25

00:06:44,160 --> 00:07:10,950

whenever

26

00:07:19,189 --> 00:07:13,189

endeavor no reply 90 seconds to a tdrs

27

00:08:17,350 --> 00:07:20,790

and endeavor we have a great view of the

28

00:08:21,350 --> 00:08:19,749

those lacy webs across the states as we

29

00:08:27,909 --> 00:08:21,360

went over it look forward to getting a

30

00:08:27,919 --> 00:11:02,550

yeah you know you'll have a great time

31

00:11:07,110 --> 00:11:04,230

and a hands up your conversation with

32

00:11:10,949 --> 00:11:07,120

south africa is still on at one hour and

33

00:11:16,230 --> 00:11:12,710

okay we copy and we're setting up for

34

00:11:16,240 --> 00:11:22,470

thanks winston

35

00:11:26,389 --> 00:11:24,550

is uh koishi done with his exercise and

36

00:11:30,630 --> 00:11:26,399

yet if not i'll call him on the west

37

00:11:38,069 --> 00:11:33,750

i didn't have as much length as the that

38

00:11:39,350 --> 00:11:38,079

of imus and i cleaned them off

39

00:11:41,269 --> 00:11:39,360

okay thanks

40

00:11:45,990 --> 00:11:41,279

during your off-duty time did you get to

41

00:11:52,870 --> 00:11:50,069

yes we demonstrated a very famous uh go

42

00:11:55,829 --> 00:11:52,880

play in a novel of a noble award

43

00:12:01,190 --> 00:11:58,230

dan is a good player and we really

44

00:12:12,389 --> 00:12:02,870

the game

45

00:12:17,030 --> 00:12:14,710

well actually uh

46

00:12:18,310 --> 00:12:17,040

dan gave me this a good part

47

00:12:20,710 --> 00:12:18,320

and uh

48

00:12:23,590 --> 00:12:20,720

i was playing the person who who won the

49

00:12:25,430 --> 00:12:23,600

game so i was supposed to be one but

50

00:12:26,470 --> 00:12:25,440

it took so long and we didn't come to

51
00:12:28,710 --> 00:12:26,480
the uh

52
00:12:31,030 --> 00:12:28,720
the end of the game

53
00:12:33,030 --> 00:12:31,040
okay we're going lost here you sure have

54
00:12:36,629 --> 00:12:33,040
a lot to space a lot of territory play

55
00:12:41,990 --> 00:12:38,389
never houston are you ready to talk to

56
00:12:44,230 --> 00:12:42,000
johannesburg south africa

57
00:12:46,310 --> 00:12:44,240
yes sir we sure are sorry

58
00:12:50,790 --> 00:12:46,320
okay here they come johannesburg this is

59
00:12:55,590 --> 00:12:52,790
another this is johannesburg how do you

60
00:12:58,710 --> 00:12:57,509
jonasberg we read you loud and clear

61
00:13:00,550 --> 00:12:58,720
welcome aboard the space shuttle

62
00:13:01,990 --> 00:13:00,560
endeavour

63
00:13:03,350 --> 00:13:02,000

ryan winston

64

00:13:04,470 --> 00:13:03,360

thank you so much giving us a few

65

00:13:06,550 --> 00:13:04,480

minutes to talk to you we really

66

00:13:08,550 --> 00:13:06,560

appreciate it

67

00:13:10,150 --> 00:13:08,560

this is teddy school in south africa we

68

00:13:12,310 --> 00:13:10,160

have some students from pro tech who

69

00:13:13,990 --> 00:13:12,320

have some fascinating questions for you

70

00:13:17,190 --> 00:13:14,000

and we're going to go to our first

71

00:13:18,870 --> 00:13:17,200

student who is sashim over to you sasha

72

00:13:21,670 --> 00:13:18,880

hi captain

73

00:13:23,350 --> 00:13:21,680

my name is sachin i'm from kempton park

74

00:13:25,829 --> 00:13:23,360

we are students of pro-tech and we

75

00:13:27,269 --> 00:13:25,839

really consider this a great privilege

76

00:13:28,870 --> 00:13:27,279

because this is really a once in a

77

00:13:31,190 --> 00:13:28,880

lifetime opportunity

78

00:13:33,590 --> 00:13:31,200

and my question to you is how long have

79

00:13:37,350 --> 00:13:33,600

you been in space and when can we expect

80

00:13:42,069 --> 00:13:39,509

well actually just past the seven day

81

00:13:42,870 --> 00:13:42,079

mark in space we've been up for uh just

82

00:13:45,829 --> 00:13:42,880

over

83

00:13:47,269 --> 00:13:45,839

seven days and one hour right now

84

00:13:51,590 --> 00:13:47,279

and we're going to be up here for about

85

00:13:56,550 --> 00:13:53,190

our next question comes from a young

86

00:13:57,910 --> 00:13:56,560

lady imalda i hope to you melda hi this

87

00:14:00,310 --> 00:13:57,920

is inela

88

00:14:02,310 --> 00:14:00,320

i just wanna ask attend brian

89

00:14:09,430 --> 00:14:02,320

how did you choose to become an

90

00:14:13,110 --> 00:14:11,110

well i'll tell you i'll start off with

91

00:14:16,069 --> 00:14:13,120

that question i

92

00:14:18,230 --> 00:14:16,079

have have been a navy pilot most of my

93

00:14:19,670 --> 00:14:18,240

adult life and i chose to become an

94

00:14:22,069 --> 00:14:19,680

astronaut because i thought that would

95

00:14:24,389 --> 00:14:22,079

be a nice next step a nice next

96

00:14:27,030 --> 00:14:24,399

challenge for me in the work that i was

97

00:14:29,269 --> 00:14:27,040

already doing in aviation and science

98

00:14:31,030 --> 00:14:29,279

and i tell you since being up here on my

99

00:14:33,110 --> 00:14:31,040

first flight i haven't regretted that

100

00:14:35,430 --> 00:14:33,120

decision at all this has been a

101
00:14:37,670 --> 00:14:35,440
tremendous experience and i wish you all

102
00:14:41,910 --> 00:14:37,680
could be here with me and share it's

103
00:14:47,829 --> 00:14:44,790
in koichi good

104
00:14:50,389 --> 00:14:47,839
our next question will come from ashley

105
00:14:52,870 --> 00:14:50,399
yeah i'm actually from sorento

106
00:14:55,269 --> 00:14:52,880
i heard that i had rumors about like are

107
00:14:57,590 --> 00:14:55,279
you going to land on math soon is it

108
00:14:57,600 --> 00:15:02,389
ashley went into know that about mars

109
00:15:06,389 --> 00:15:03,670
okay you want to know if we're going to

110
00:15:07,189 --> 00:15:06,399
land on mars soon well i have to answer

111
00:15:09,430 --> 00:15:07,199
uh

112
00:15:11,509 --> 00:15:09,440
no we're not going to land on mars soon

113
00:15:13,430 --> 00:15:11,519

however we at nasa do

114

00:15:16,069 --> 00:15:13,440

have plans and work

115

00:15:18,230 --> 00:15:16,079

long-term plans at work to go to mars i

116

00:15:20,069 --> 00:15:18,240

think probably the next big step will be

117

00:15:21,509 --> 00:15:20,079

to go back to the moon as you know we

118

00:15:24,790 --> 00:15:21,519

walked on the moon

119

00:15:26,069 --> 00:15:24,800

about 25 26 years ago the next big step

120

00:15:27,750 --> 00:15:26,079

would go back to the moon and then

121

00:15:29,030 --> 00:15:27,760

hopefully from there we'll go on to mars

122

00:15:31,910 --> 00:15:29,040

but i don't think that's going to happen

123

00:15:33,829 --> 00:15:31,920

anytime soon i will add though that by

124

00:15:35,509 --> 00:15:33,839

the time you get to be my age and a

125

00:15:38,870 --> 00:15:35,519

flying space maybe you'll be one of the

126

00:15:42,230 --> 00:15:40,470

thanks so much gentlemen our next

127

00:15:43,430 --> 00:15:42,240

question comes from another young lady

128

00:15:46,310 --> 00:15:43,440

candice

129

00:15:48,150 --> 00:15:46,320

over to you candace hi there winston um

130

00:15:49,910 --> 00:15:48,160

i spoke to you before

131

00:15:52,629 --> 00:15:49,920

about preparation mentally and

132

00:15:54,389 --> 00:15:52,639

physically or what you experienced in

133

00:15:58,550 --> 00:15:54,399

space where you prepared for it

134

00:16:03,269 --> 00:16:00,310

okay i

135

00:16:05,350 --> 00:16:03,279

i think i was as best prepared as i

136

00:16:07,670 --> 00:16:05,360

possibly could have been the training we

137

00:16:09,350 --> 00:16:07,680

have is very very excellent but of

138

00:16:11,910 --> 00:16:09,360

course we have no way of truly

139

00:16:14,389 --> 00:16:11,920

simulating zero g the only way to

140

00:16:16,389 --> 00:16:14,399

experience it is to come up here and uh

141

00:16:18,230 --> 00:16:16,399

physically we all have gotten along very

142

00:16:21,110 --> 00:16:18,240

well in space of course our commander

143

00:16:22,870 --> 00:16:21,120

brian and uh our ms-1 mission leader

144

00:16:25,030 --> 00:16:22,880

chow have flown before but the other

145

00:16:27,829 --> 00:16:25,040

four of us were brand new but you'd be

146

00:16:29,829 --> 00:16:27,839

amazed at how quickly your body adapts i

147

00:16:32,550 --> 00:16:29,839

felt a little uneasiness the first day

148

00:16:34,949 --> 00:16:32,560

but i was not ill at all and we all feel

149

00:16:37,430 --> 00:16:34,959

great we're having just a wonderful time

150

00:16:38,790 --> 00:16:37,440

up here

151
00:16:39,910 --> 00:16:38,800
konnichiwa

152
00:16:42,949 --> 00:16:39,920
um

153
00:16:44,550 --> 00:16:42,959
koichi wakata i hope i got that right

154
00:16:45,990 --> 00:16:44,560
thanks for taking the time to talk to us

155
00:16:48,470 --> 00:16:46,000
we've got a young gentleman here by the

156
00:16:50,949 --> 00:16:48,480
name of sam who who really feels that

157
00:16:54,870 --> 00:16:50,959
you gentlemen are a great role model for

158
00:16:57,030 --> 00:16:54,880
him um and he's got a question for you

159
00:16:58,949 --> 00:16:57,040
i just wanted to know um when you're

160
00:17:11,909 --> 00:16:58,959
viewing the earth from space it doesn't

161
00:17:16,870 --> 00:17:14,390
well we've been in space for almost a

162
00:17:20,230 --> 00:17:16,880
week and

163
00:17:23,189 --> 00:17:20,240

i was very surprised to to see my body's

164

00:17:24,230 --> 00:17:23,199

adaptation into this microgravity uh so

165

00:17:26,870 --> 00:17:24,240

quickly

166

00:17:30,150 --> 00:17:26,880

and uh we are feeling very good and we

167

00:17:34,789 --> 00:17:30,160

are doing uh our job in here and uh it's

168

00:17:38,950 --> 00:17:36,470

very much uh

169

00:17:41,430 --> 00:17:38,960

um our next question comes from another

170

00:17:42,710 --> 00:17:41,440

one of our students it's your son over

171

00:17:43,830 --> 00:17:42,720

here

172

00:17:45,590 --> 00:17:43,840

hi

173

00:17:46,470 --> 00:17:45,600

i like to find out

174

00:17:48,789 --> 00:17:46,480

how

175

00:17:57,909 --> 00:17:48,799

space exploration will benefit us in the

176

00:18:00,950 --> 00:17:59,350

that was a little bit broken but i

177

00:18:02,710 --> 00:18:00,960

believe your question was about how

178

00:18:09,190 --> 00:18:02,720

space would benefit us in the future is

179

00:18:13,029 --> 00:18:10,549

uh you saw would you ask the question

180

00:18:18,630 --> 00:18:15,590

um i'd like to know how space

181

00:18:21,350 --> 00:18:18,640

exploration will benefit us on earth and

182

00:18:24,789 --> 00:18:23,510

yeah that's a very good question and

183

00:18:26,630 --> 00:18:24,799

it's one that

184

00:18:28,470 --> 00:18:26,640

that we consider all the time because

185

00:18:30,310 --> 00:18:28,480

everything that we do has to have a

186

00:18:32,789 --> 00:18:30,320

purpose and that purpose is generally to

187

00:18:34,549 --> 00:18:32,799

better some portion of our lives on

188

00:18:37,110 --> 00:18:34,559

earth that turns out we can come to

189

00:18:39,590 --> 00:18:37,120

space and do uh lots of lots of things

190

00:18:42,789 --> 00:18:39,600

we can do that we cannot do on earth

191

00:18:45,430 --> 00:18:42,799

we can do medical experiments up here we

192

00:18:47,830 --> 00:18:45,440

can perhaps invent new drugs to combat

193

00:18:50,150 --> 00:18:47,840

diseases uh we may be able to grow new

194

00:18:52,710 --> 00:18:50,160

crystals to be able to run faster

195

00:18:54,470 --> 00:18:52,720

computers uh though the list is endless

196

00:18:57,190 --> 00:18:54,480

and we could talk about that

197

00:18:59,669 --> 00:18:57,200

for many many uh hours about how space

198

00:19:01,830 --> 00:18:59,679

can benefit but it's not limited to any

199

00:19:03,430 --> 00:19:01,840

one area it really spans uh every part

200

00:19:07,430 --> 00:19:03,440

of the everyday life on earth and we

201
00:19:11,110 --> 00:19:09,430
astronaut scots um we understand that

202
00:19:13,830 --> 00:19:11,120
you you have three objectives on this

203
00:19:16,390 --> 00:19:13,840
mission one of them being to retrieve a

204
00:19:18,470 --> 00:19:16,400
japanese communication satellite um we

205
00:19:20,070 --> 00:19:18,480
also have a question now from sean also

206
00:19:21,350 --> 00:19:20,080
one of our students in connection with

207
00:19:25,110 --> 00:19:21,360
the mission

208
00:19:27,110 --> 00:19:25,120
okay um i dr scott and his crew

209
00:19:29,590 --> 00:19:27,120
my name is sean i like to know what's

210
00:19:35,350 --> 00:19:29,600
the purpose of your mission

211
00:19:39,990 --> 00:19:37,669
are you absolutely right they we had

212
00:19:42,150 --> 00:19:40,000
several uh main objectives on this

213
00:19:44,230 --> 00:19:42,160

mission and uh one was which to uh

214

00:19:45,430 --> 00:19:44,240

retrieve the japanese satellite space

215

00:19:47,510 --> 00:19:45,440

fly unit

216

00:19:49,750 --> 00:19:47,520

the other one was to deploy and then

217

00:19:53,350 --> 00:19:49,760

retrieve a satellite called the host

218

00:19:55,350 --> 00:19:53,360

oast satellite and the way that we went

219

00:19:58,470 --> 00:19:55,360

about those retrievals is by doing a

220

00:20:00,549 --> 00:19:58,480

rendezvous and the rendezvous

221

00:20:02,470 --> 00:20:00,559

involved basic orbital mechanics in

222

00:20:04,789 --> 00:20:02,480

other words we had to plan our launch

223

00:20:06,710 --> 00:20:04,799

for a certain time and day so that we

224

00:20:09,590 --> 00:20:06,720

have enough fuel and

225

00:20:12,150 --> 00:20:09,600

enough time to catch up to the satellite

226

00:20:14,950 --> 00:20:12,160

and approach it we have we used a what's

227

00:20:17,110 --> 00:20:14,960

called an r bar approach whereas we flew

228

00:20:19,110 --> 00:20:17,120

out of the earth's radius of vector

229

00:20:21,270 --> 00:20:19,120

along the earth's radius up to the

230

00:20:24,470 --> 00:20:21,280

satellite we opened up the payload bay

231

00:20:25,430 --> 00:20:24,480

doors and koichi wakata here on my

232

00:20:27,350 --> 00:20:25,440

left

233

00:20:29,029 --> 00:20:27,360

operated the robot arm to reach out and

234

00:20:31,510 --> 00:20:29,039

grapple the satellites and burst them

235

00:20:33,909 --> 00:20:31,520

both inside the payload bay now that's a

236

00:20:36,149 --> 00:20:33,919

very quick and simple explanation of a

237

00:20:38,870 --> 00:20:36,159

somewhat complex uh

238

00:20:41,110 --> 00:20:38,880

task but it was it's really really

239

00:20:43,669 --> 00:20:41,120

fascinating to participate in it really

240

00:20:46,789 --> 00:20:43,679

to see the crew operate as a single unit

241

00:20:48,789 --> 00:20:46,799

was great we had myself sending commands

242

00:20:51,029 --> 00:20:48,799

to the satellite through the computer uh

243

00:20:53,669 --> 00:20:51,039

commander brian duffy was actually

244

00:20:55,750 --> 00:20:53,679

flying the vehicle actually it was hands

245

00:20:57,350 --> 00:20:55,760

on the stick and throttle flying when he

246

00:20:59,110 --> 00:20:57,360

flew it close enough and stabilized the

247

00:21:01,510 --> 00:20:59,120

koichi weeps out with the robot arm and

248

00:21:03,990 --> 00:21:01,520

brought you into the bay that really was

249

00:21:05,510 --> 00:21:04,000

quite uh an event and quite a sight to

250

00:21:08,230 --> 00:21:05,520

behold even for those of us who were

251
00:21:09,990 --> 00:21:08,240
participating

252
00:21:12,390 --> 00:21:10,000
um my next question is to with

253
00:21:14,870 --> 00:21:12,400
winston-scott sean mike here i just want

254
00:21:17,350 --> 00:21:14,880
to find out about the evas otherwise

255
00:21:19,510 --> 00:21:17,360
known as spacewalks could you tell us

256
00:21:22,870 --> 00:21:19,520
more about the spacewalks um if you have

257
00:21:25,430 --> 00:21:22,880
any plan if you've done any yet

258
00:21:27,350 --> 00:21:25,440
oh i sure can this flight consisting of

259
00:21:30,549 --> 00:21:27,360
two spacewalks the first was done by

260
00:21:31,750 --> 00:21:30,559
leroy chow and dr dan barry the second

261
00:21:34,070 --> 00:21:31,760
spacewalk was the one that i

262
00:21:36,310 --> 00:21:34,080
participated on and dr chow participated

263
00:21:38,789 --> 00:21:36,320

on that one with me the purpose of these

264

00:21:42,230 --> 00:21:38,799

spacewalks was to uh

265

00:21:44,230 --> 00:21:42,240

to test out uh equipment and structures

266

00:21:46,310 --> 00:21:44,240

and techniques and so on that we might

267

00:21:48,390 --> 00:21:46,320

use in building the international space

268

00:21:51,190 --> 00:21:48,400

station the second purpose was to test

269

00:21:52,710 --> 00:21:51,200

out improvements to our uh suits our

270

00:21:54,710 --> 00:21:52,720

extra vehicular mobility in our

271

00:21:57,190 --> 00:21:54,720

spacesuits and i guess that was the

272

00:21:59,669 --> 00:21:57,200

highlight of my space space walk even

273

00:22:01,669 --> 00:21:59,679

though it was a very busy six and a half

274

00:22:03,430 --> 00:22:01,679

hours of space walking the most

275

00:22:05,909 --> 00:22:03,440

important part i think was the 35

276

00:22:08,789 --> 00:22:05,919

minutes that i used to stand still in

277

00:22:12,310 --> 00:22:08,799

the most cold environment that we could

278

00:22:13,909 --> 00:22:12,320

achieve and i activated the thermal uh

279

00:22:15,350 --> 00:22:13,919

the heating units on my suit to see

280

00:22:17,190 --> 00:22:15,360

whether or not they would keep me warm

281

00:22:19,590 --> 00:22:17,200

and i'm happy to report that they they

282

00:22:21,270 --> 00:22:19,600

worked very very well i

283

00:22:23,590 --> 00:22:21,280

never once fell uncomfortable out there

284

00:22:26,310 --> 00:22:23,600

in the coal of space so anyway we've had

285

00:22:27,590 --> 00:22:26,320

two evas and uh i just enjoyed that i

286

00:22:28,870 --> 00:22:27,600

wouldn't trade that experience for

287

00:22:31,430 --> 00:22:28,880

anything else in the world it was

288

00:22:35,270 --> 00:22:33,510

absolutely absolutely incredible visuals

289

00:22:37,190 --> 00:22:35,280

left sir our next question is for

290

00:22:41,590 --> 00:22:37,200

astronauts uh were carson it comes from

291

00:22:45,669 --> 00:22:43,990

my name's karen and i'd like to know

292

00:23:01,830 --> 00:22:45,679

what is wrong with the satellite that

293

00:23:06,630 --> 00:23:03,750

this satellite called

294

00:23:10,070 --> 00:23:06,640

ffu space fly unit was launched by a

295

00:23:13,750 --> 00:23:10,080

japanese rocket back in march of last

296

00:23:16,230 --> 00:23:13,760

year and it has been conducting various

297

00:23:20,149 --> 00:23:16,240

scientific researches such as material

298

00:23:22,149 --> 00:23:20,159

processing astronomical observation and

299

00:23:24,470 --> 00:23:22,159

systems which will be used in the space

300

00:23:26,310 --> 00:23:24,480

station alpha which will start its

301

00:23:28,390 --> 00:23:26,320

assembly next year

302

00:23:30,310 --> 00:23:28,400

and they have been conducting uh very

303

00:23:33,270 --> 00:23:30,320

successful experiments and we

304

00:23:36,070 --> 00:23:33,280

successfully retrieved the satellite and

305

00:23:38,310 --> 00:23:36,080

after we go back home on the earth the

306

00:23:39,909 --> 00:23:38,320

japanese engineers and scientists will

307

00:23:40,789 --> 00:23:39,919

gather a lot of

308

00:23:44,950 --> 00:23:40,799

very

309

00:23:50,950 --> 00:23:46,390

gentlemen our next question comes from

310

00:23:56,310 --> 00:23:54,470

in terms of japanese us relations

311

00:23:58,950 --> 00:23:56,320

what does this mission hold what does it

312

00:24:01,510 --> 00:23:58,960

hope to improve what what what in terms

313

00:24:03,590 --> 00:24:01,520

of the us japanese relations the joint

314

00:24:05,029 --> 00:24:03,600

mission are we going to see more joint

315

00:24:07,029 --> 00:24:05,039

mission in space

316

00:24:13,269 --> 00:24:07,039

and what what are the immediate benefits

317

00:24:19,190 --> 00:24:16,630

konichiwa it's a very good question

318

00:24:22,310 --> 00:24:19,200

and this successful retrieval of the

319

00:24:24,230 --> 00:24:22,320

space flight unit was achieved because

320

00:24:25,990 --> 00:24:24,240

we had a very good coordination and

321

00:24:28,789 --> 00:24:26,000

cooperation between

322

00:24:32,310 --> 00:24:28,799

uh the mission control center in nasa in

323

00:24:34,549 --> 00:24:32,320

houston and also sfu's mission control

324

00:24:36,870 --> 00:24:34,559

center in japan

325

00:24:39,110 --> 00:24:36,880

and we showed a perfect teamwork during

326

00:24:40,549 --> 00:24:39,120

this retrieval together with the crew

327

00:24:42,310 --> 00:24:40,559

members here

328

00:24:45,110 --> 00:24:42,320

and this is one of the very good

329

00:24:47,669 --> 00:24:45,120

examples of international cooperation

330

00:24:50,390 --> 00:24:47,679

and i think international cooperation is

331

00:24:52,950 --> 00:24:50,400

the most important thing to proceed on

332

00:24:56,310 --> 00:24:52,960

to further frontier in space

333

00:24:58,390 --> 00:24:56,320

and both united states and japan are

334

00:25:01,110 --> 00:24:58,400

participating in the international space

335

00:25:04,230 --> 00:25:01,120

station app program which will start its

336

00:25:05,110 --> 00:25:04,240

assembly as i told you last next next

337

00:25:06,230 --> 00:25:05,120

year

338

00:25:09,190 --> 00:25:06,240

and

339

00:25:13,350 --> 00:25:09,200

i think this is a very key

340

00:25:16,630 --> 00:25:13,360

element of the future in space program

341

00:25:19,269 --> 00:25:16,640

how far is the reality of an actual

342

00:25:21,669 --> 00:25:19,279

space station where

343

00:25:24,870 --> 00:25:21,679

different countries will be involved is

344

00:25:26,710 --> 00:25:24,880

it still in the in the books or is it

345

00:25:31,350 --> 00:25:26,720

how far is it going to be to be a

346

00:25:33,190 --> 00:25:31,360

reality that is the us japan russia

347

00:25:35,430 --> 00:25:33,200

the involvement of

348

00:25:43,990 --> 00:25:35,440

countries in space establishing an

349

00:25:48,789 --> 00:25:46,310

okay this international space station

350

00:25:51,190 --> 00:25:48,799

will start its assembly next year late

351

00:25:54,789 --> 00:25:51,200

next year and the participants are

352

00:25:57,669 --> 00:25:54,799

united states canada europe japan and

353

00:25:59,830 --> 00:25:57,679

also russia

354

00:26:00,870 --> 00:25:59,840

do you hope to invite us sometime in the

355

00:26:02,789 --> 00:26:00,880

future

356

00:26:04,870 --> 00:26:02,799

such as south africa

357

00:26:08,950 --> 00:26:04,880

if we become involved in the space camp

358

00:26:14,070 --> 00:26:11,590

when i was a when i was five years old i

359

00:26:16,710 --> 00:26:14,080

saw the apollo luna landing and for me

360

00:26:19,269 --> 00:26:16,720

was just a dream at the time but now the

361

00:26:21,510 --> 00:26:19,279

world is changing and i think it's it's

362

00:26:23,269 --> 00:26:21,520

very uh i feel very happy that i'm

363

00:26:26,230 --> 00:26:23,279

involved in this space program and i

364

00:26:28,070 --> 00:26:26,240

feel and i hope that the many more

365

00:26:31,350 --> 00:26:28,080

people from around the world will be

366

00:26:34,549 --> 00:26:31,360

able to proceed participate in this

367

00:26:36,789 --> 00:26:34,559

activity in space

368

00:26:38,870 --> 00:26:36,799

i regard so especially

369

00:26:40,950 --> 00:26:38,880

thank you very much our next question

370

00:26:43,190 --> 00:26:40,960

comes from sashin

371

00:26:45,190 --> 00:26:43,200

and it's um for you astronaut brian

372

00:26:50,230 --> 00:26:45,200

duffy

373

00:26:53,669 --> 00:26:50,240

y'all said that the last

374

00:26:54,950 --> 00:26:53,679

spacewalk was 25 years ago this walk was

375

00:26:57,430 --> 00:26:54,960

before y'all

376

00:27:00,070 --> 00:26:57,440

why has it been so long since the next

377

00:27:04,950 --> 00:27:00,080

space mission or next since this moon

378

00:27:10,710 --> 00:27:07,990

yeah the uh the last moonwalk was uh was

379

00:27:13,190 --> 00:27:10,720

approximately 25 years ago that's right

380

00:27:15,590 --> 00:27:13,200

and um it turned out that the space

381

00:27:17,430 --> 00:27:15,600

program of the united states um

382

00:27:18,950 --> 00:27:17,440

after that time after we had been to the

383

00:27:21,750 --> 00:27:18,960

to the moon a number of times it

384

00:27:22,549 --> 00:27:21,760

continued on to the next step

385

00:27:24,870 --> 00:27:22,559

of

386

00:27:28,070 --> 00:27:24,880

space exploration and that was to create

387

00:27:30,149 --> 00:27:28,080

a vehicle that could regularly

388

00:27:33,110 --> 00:27:30,159

exit the earth's atmosphere and make it

389

00:27:35,430 --> 00:27:33,120

to space to carry cargo and people into

390

00:27:36,789 --> 00:27:35,440

space and be able to do it easily be

391

00:27:37,830 --> 00:27:36,799

able to go up and to be able to come

392

00:27:39,669 --> 00:27:37,840

down

393

00:27:42,230 --> 00:27:39,679

so they the united states set out to

394

00:27:44,549 --> 00:27:42,240

build the first reusable space vehicle

395

00:27:45,669 --> 00:27:44,559

and that's the space shuttle which

396

00:27:47,750 --> 00:27:45,679

we're aboard

397

00:27:50,470 --> 00:27:47,760

right now as we speak

398

00:27:53,269 --> 00:27:50,480

so we did need to continue going back to

399

00:27:55,830 --> 00:27:53,279

the moon we could have and we perhaps we

400

00:27:57,990 --> 00:27:55,840

have a lot to learn yet however at the

401
00:28:00,950 --> 00:27:58,000
time when they made that decision

402
00:28:03,190 --> 00:28:00,960
back in the 1970s their decision was to

403
00:28:05,750 --> 00:28:03,200
build a reusable vehicle that we could

404
00:28:07,269 --> 00:28:05,760
get to space and back regularly so

405
00:28:08,789 --> 00:28:07,279
that's where we are today we have a

406
00:28:10,870 --> 00:28:08,799
great future ahead of us we have a lot

407
00:28:12,549 --> 00:28:10,880
of great things to do we really do look

408
00:28:14,710 --> 00:28:12,559
forward to going back to the moon we do

409
00:28:16,389 --> 00:28:14,720
look forward to going to mars we i don't

410
00:28:20,310 --> 00:28:16,399
think they're that far away

411
00:28:24,310 --> 00:28:21,990
this is scott rudelsberger in washington

412
00:28:26,389 --> 00:28:24,320
commander duffy uh thank you very much

413
00:28:29,669 --> 00:28:26,399

as well as winston scott and koichi

414

00:28:31,430 --> 00:28:29,679

wakata for joining us today

415

00:28:32,870 --> 00:28:31,440

and also thank you to uh certainly our

416

00:28:39,830 --> 00:28:32,880

pleasure thank you for coming aboard and

417

00:28:43,350 --> 00:28:41,990

in johannesburg houston thank you very

418

00:28:44,950 --> 00:28:43,360

much for sharing a space flight

419

00:28:47,350 --> 00:28:44,960

experience

420

00:28:49,110 --> 00:28:47,360

with us endeavors approaching hawaii at

421

00:28:51,990 --> 00:28:49,120

this time but in

422

00:28:54,630 --> 00:28:52,000

about 45 minutes at 26 after the hour

423

00:28:55,990 --> 00:28:54,640

they will be above johannesburg

424

00:28:58,070 --> 00:28:56,000

it'll be in the daylight you will not be

425

00:28:59,669 --> 00:28:58,080

able to see them but they will sure

426

00:29:04,950 --> 00:28:59,679

appreciate the view of your beautiful