



1
00:01:37,030 --> 00:01:18,149
do

2
00:01:41,030 --> 00:01:39,190
good morning atlantis mir that keyboard

3
00:01:42,789 --> 00:01:41,040
selection was played for you by the

4
00:01:49,429 --> 00:01:42,799
commander's birthday girl jenny

5
00:01:59,030 --> 00:01:51,350
she must have inherited inherited her

6
00:02:02,230 --> 00:02:00,230
we concur

7
00:02:04,149 --> 00:02:02,240
jim if you wouldn't mind we'd like to

8
00:02:12,070 --> 00:02:04,159
leave the ocac

9
00:02:17,110 --> 00:02:14,309
okay no problem uh

10
00:02:18,790 --> 00:02:17,120
direct r2 is off and okay off also for

11
00:02:21,350 --> 00:02:18,800
another 30 minutes

12
00:03:25,110 --> 00:02:21,360
roger and we've got uh tv there on the

13
00:03:33,190 --> 00:03:27,589

and scott to let you know we do have tv

14

00:03:33,200 --> 00:03:38,070

welcome award

15

00:03:43,350 --> 00:03:39,750

and it's got a couple of things uh we

16

00:03:46,309 --> 00:03:43,360

are anticipating the p-o-p-a-o event

17

00:03:50,550 --> 00:03:46,319

to be televised from the core module and

18

00:03:50,560 --> 00:03:54,309

copy off

19

00:03:59,429 --> 00:03:55,990

dave wolf you're looking very comfy up

20

00:04:01,589 --> 00:03:59,439

there it's uh it's great to see you

21

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

dave wolf this question uh just came to

22

00:04:05,270 --> 00:04:03,599

me from your mother she says she's not

23

00:04:07,750 --> 00:04:05,280

uh she's not convinced you're gonna be

24

00:04:10,550 --> 00:04:07,760

able to uh celebrate the jewish holidays

25

00:04:12,070 --> 00:04:10,560

correctly um are you gonna be able to do

26

00:04:16,069 --> 00:04:12,080

that did you bring what you need to do

27

00:04:20,469 --> 00:04:18,150

i've got what i need coming up on the

28

00:04:23,430 --> 00:04:20,479

progress in december

29

00:04:25,590 --> 00:04:23,440

a friend of mine has sent it so i'll be

30

00:04:28,469 --> 00:04:25,600

able to celebrate and even without the

31

00:04:30,230 --> 00:04:28,479

items we can do it in mind

32

00:04:32,310 --> 00:04:30,240

all right that's great uh well let me

33

00:04:34,710 --> 00:04:32,320

start there with uh with michael fole

34

00:04:36,629 --> 00:04:34,720

mike we have heard from other astronauts

35

00:04:39,030 --> 00:04:36,639

who have lived on the mir that there

36

00:04:41,510 --> 00:04:39,040

have been various physical and mental

37

00:04:42,390 --> 00:04:41,520

effects that occur to your body and to

38

00:04:44,390 --> 00:04:42,400

your mind

39

00:04:46,950 --> 00:04:44,400

when the level of carbon dioxide aboard

40

00:04:49,510 --> 00:04:46,960

mir gets uh gets higher than you would

41

00:04:51,350 --> 00:04:49,520

like have you noticed any physical

42

00:04:54,790 --> 00:04:51,360

degradation at any time during your

43

00:04:56,790 --> 00:04:54,800

mission or any uh mental uh haziness or

44

00:05:01,590 --> 00:04:56,800

any mental problems at all

45

00:05:06,870 --> 00:05:04,629

the answer that is no and

46

00:05:08,310 --> 00:05:06,880

as far as carbon dioxide goes on space

47

00:05:10,310 --> 00:05:08,320

station mir

48

00:05:11,909 --> 00:05:10,320

i have not had any i've noticed it

49

00:05:12,870 --> 00:05:11,919

almost every day uh while i have been

50

00:05:14,469 --> 00:05:12,880

tending

51
00:05:17,270 --> 00:05:14,479
my plants that i've been growing in the

52
00:05:19,909 --> 00:05:17,280
greenhouse i'm aware of the level as uh

53
00:05:22,550 --> 00:05:19,919
as far as the detectors are measuring it

54
00:05:24,070 --> 00:05:22,560
and uh it has always been fairly low

55
00:05:26,310 --> 00:05:24,080
well within the limits that have been

56
00:05:27,909 --> 00:05:26,320
set for um space station rear

57
00:05:30,790 --> 00:05:27,919
habitability

58
00:05:32,469 --> 00:05:30,800
so i'm not quite sure uh how that

59
00:05:34,870 --> 00:05:32,479
report arose

60
00:05:37,110 --> 00:05:34,880
um occasionally the carbon dioxide goes

61
00:05:38,790 --> 00:05:37,120
higher when we have had to use

62
00:05:40,629 --> 00:05:38,800
a different carbon dioxide scrubbing

63
00:05:43,749 --> 00:05:40,639

system but it has always been within the

64

00:05:45,749 --> 00:05:43,759

limits prescribed for the space station

65

00:05:47,189 --> 00:05:45,759

no kidding i've i've seen your family

66

00:05:48,790 --> 00:05:47,199

they are delightful and they are looking

67

00:05:50,870 --> 00:05:48,800

forward to seeing you when you get back

68

00:05:53,749 --> 00:05:50,880

if you will pass the baton over to dave

69

00:05:55,830 --> 00:05:53,759

wolf dave you trained i i think for just

70

00:05:58,070 --> 00:05:55,840

about everything before you travel to

71

00:06:02,150 --> 00:05:58,080

mir have you been surprised by anything

72

00:06:06,870 --> 00:06:04,790

i i was when i first walked in this

73

00:06:09,029 --> 00:06:06,880

place looks like one of those radio

74

00:06:11,110 --> 00:06:09,039

shops in new york city there's so much

75

00:06:13,830 --> 00:06:11,120

gear everywhere

76

00:06:16,950 --> 00:06:13,840

and it's just a playground of equipment

77

00:06:18,710 --> 00:06:16,960

and cameras and recorders so uh i'm

78

00:06:22,230 --> 00:06:18,720

surprised how much can actually be here

79

00:06:23,670 --> 00:06:22,240

it's a very alive living place

80

00:06:25,189 --> 00:06:23,680

jim hold on to the mic for a minute i'd

81

00:06:27,029 --> 00:06:25,199

like you if you will to preview

82

00:06:28,629 --> 00:06:27,039

tomorrow's spacewalk for us what's going

83

00:06:29,990 --> 00:06:28,639

to happen what's the

84

00:06:34,309 --> 00:06:30,000

the best that can happen out of that

85

00:06:38,390 --> 00:06:35,830

well what they intend to do is to

86

00:06:39,590 --> 00:06:38,400

recover uh some experiments that were

87

00:06:42,870 --> 00:06:39,600

deployed

88

00:06:44,309 --> 00:06:42,880

on mission sts 76 i think they are

89

00:06:46,230 --> 00:06:44,319

experiments that have been looking at

90

00:06:48,870 --> 00:06:46,240

the environment of space thought very

91

00:06:51,270 --> 00:06:48,880

harsh environment with cosmic rays and

92

00:06:52,790 --> 00:06:51,280

particles impacting different surfaces

93

00:06:54,469 --> 00:06:52,800

they will bring those experiments back

94

00:06:56,309 --> 00:06:54,479

and we will analyze them down on the

95

00:06:57,990 --> 00:06:56,319

ground it's similar to what we learned

96

00:07:00,230 --> 00:06:58,000

on the long-duration exposure facility

97

00:07:03,589 --> 00:07:00,240

satellite several years ago they also

98

00:07:06,070 --> 00:07:03,599

will deploy some russian hardware that

99

00:07:07,749 --> 00:07:06,080

was sent up uh with us

100

00:07:09,350 --> 00:07:07,759

they'll take it to the outside of the

101
00:07:11,990 --> 00:07:09,360
station that will help

102
00:07:13,510 --> 00:07:12,000
anatomy and his

103
00:07:16,070 --> 00:07:13,520
folks to

104
00:07:17,350 --> 00:07:16,080
attempt to fix the leak on spectre and

105
00:07:19,430 --> 00:07:17,360
if that's successful then they can

106
00:07:20,309 --> 00:07:19,440
recover the capabilities

107
00:07:21,990 --> 00:07:20,319
uh

108
00:07:23,909 --> 00:07:22,000
in there it's

109
00:07:26,309 --> 00:07:23,919
one thing that we learned

110
00:07:29,350 --> 00:07:26,319
our agency from the russians is to be

111
00:07:32,390 --> 00:07:29,360
flexible the hardware was sent to us

112
00:07:34,790 --> 00:07:32,400
only a couple of weeks before launch and

113
00:07:36,390 --> 00:07:34,800

i was very happy that we were able to

114

00:07:38,070 --> 00:07:36,400

incorporate it into the flight and bring

115

00:07:40,390 --> 00:07:38,080

the hardware up here we brought lots of

116

00:07:43,029 --> 00:07:40,400

different kinds of russian hardware just

117

00:07:44,309 --> 00:07:43,039

in case that doesn't fix the problem

118

00:07:46,070 --> 00:07:44,319

some of the other equipment that the

119

00:07:50,870 --> 00:07:46,080

russians have sent may help to fix the

120

00:07:55,110 --> 00:07:53,589

the first question to you

121

00:07:57,270 --> 00:07:55,120

we know what type of

122

00:07:59,830 --> 00:07:57,280

discussions there were regarding the mir

123

00:08:01,830 --> 00:07:59,840

station on the earth and the joint

124

00:08:03,350 --> 00:08:01,840

mission what was your assessment of the

125

00:08:06,550 --> 00:08:03,360

condition of the mir station and the

126

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

complications associated with

127

00:08:11,510 --> 00:08:08,560

the general condition of it could you

128

00:08:18,150 --> 00:08:13,270

and this is to the mere crew the russian

129

00:08:25,990 --> 00:08:21,029

i think it is a good question

130

00:08:32,630 --> 00:08:26,710

the

131

00:08:35,509 --> 00:08:32,640

expedition first and not only just using

132

00:08:37,430 --> 00:08:35,519

russian resources but

133

00:08:42,070 --> 00:08:37,440

also to enlist

134

00:08:44,870 --> 00:08:43,750

we in our next

135

00:08:47,590 --> 00:08:44,880

mission

136

00:08:50,389 --> 00:08:47,600

have david wolf who will be performing

137

00:08:52,470 --> 00:08:50,399

the science program set forth

138

00:08:54,070 --> 00:08:52,480

by nasa

139

00:08:55,910 --> 00:08:54,080

and of course we will have a great deal

140

00:08:57,590 --> 00:08:55,920

of work

141

00:08:58,710 --> 00:08:57,600

to perform in

142

00:09:01,110 --> 00:08:58,720

re

143

00:09:03,750 --> 00:09:01,120

covering portions of the station of

144

00:09:06,389 --> 00:09:03,760

course we cannot absolutely

145

00:09:09,750 --> 00:09:07,350

resolve

146

00:09:13,670 --> 00:09:09,760

operation and repair questions and the

147

00:09:19,430 --> 00:09:16,790

who can ever who had who has ever

148

00:09:22,630 --> 00:09:19,440

operated such a station over such a

149

00:09:24,389 --> 00:09:22,640

period of time it has been 12 years

150

00:09:27,590 --> 00:09:24,399

that we have been

151
00:09:30,150 --> 00:09:27,600
exploiting uh engineering work by people

152
00:09:33,829 --> 00:09:30,160
in space this is also a test and if we

153
00:09:35,430 --> 00:09:33,839
were to throw this over on half halfway

154
00:09:38,389 --> 00:09:35,440
then it would be just wouldn't make

155
00:09:41,110 --> 00:09:38,399
sense and i think

156
00:09:41,829 --> 00:09:41,120
this is very well understood both

157
00:09:46,630 --> 00:09:41,839
in

158
00:09:47,350 --> 00:09:46,640
atlantis is next to us right now and why

159
00:09:53,509 --> 00:09:47,360
the

160
00:09:56,230 --> 00:09:53,519
and we are all hoping that we will

161
00:09:59,030 --> 00:09:56,240
obtain good results from it all

162
00:10:01,430 --> 00:09:59,040
i can add to the ads of my commander

163
00:10:03,670 --> 00:10:01,440

that undoubtedly the condition of the

164

00:10:06,070 --> 00:10:03,680

station is a lot better than it was one

165

00:10:07,590 --> 00:10:06,080

and a half two months ago when

166

00:10:11,190 --> 00:10:07,600

we

167

00:10:14,150 --> 00:10:11,200

a very high

168

00:10:16,470 --> 00:10:14,160

reliability of onboard systems we also

169

00:10:19,430 --> 00:10:16,480

have a great deal of margin

170

00:10:22,630 --> 00:10:19,440

for uh our on-board systems

171

00:10:23,829 --> 00:10:22,640

they are operating stably and reliably

172

00:10:26,069 --> 00:10:23,839

and the

173

00:10:27,910 --> 00:10:26,079

decision that was made was absolutely

174

00:10:30,790 --> 00:10:27,920

correct

175

00:10:37,030 --> 00:10:30,800

to continue the expedition and the

176

00:10:42,550 --> 00:10:39,829

a great thank you to the commander

177

00:10:45,110 --> 00:10:42,560

to mr weatherby that he's here

178

00:10:48,230 --> 00:10:45,120

we're happy to he see them

179

00:10:49,670 --> 00:10:48,240

and all subsequent shuttles that are

180

00:10:53,110 --> 00:10:49,680

planned

181

00:10:56,150 --> 00:10:53,120

i would like to complement the russian

182

00:10:58,550 --> 00:10:56,160

space agency and the space community for

183

00:11:01,190 --> 00:10:58,560

its resourcefulness first of all this is

184

00:11:02,949 --> 00:11:01,200

a very beautiful space station which i

185

00:11:06,069 --> 00:11:02,959

had the pleasure of seeing a couple of

186

00:11:08,550 --> 00:11:06,079

years ago when we flew close by

187

00:11:10,790 --> 00:11:08,560

i'm very happy to be on board the

188

00:11:13,190 --> 00:11:10,800

beautiful space station mir

189

00:11:15,910 --> 00:11:13,200

it's incredibly resourceful inside there

190

00:11:18,949 --> 00:11:15,920

are many ways to fix things there are

191

00:11:22,069 --> 00:11:18,959

many ways to do scientific experiments

192

00:11:25,030 --> 00:11:22,079

i am very impressed with the equipment

193

00:11:28,150 --> 00:11:25,040

that the russians sent to us to bring up

194

00:11:29,030 --> 00:11:28,160

to the space station to help to fix the

195

00:11:33,350 --> 00:11:29,040

leak

196

00:11:35,910 --> 00:11:33,360

and so they sent

197

00:11:39,190 --> 00:11:35,920

equipment of various different kinds in

198

00:11:40,230 --> 00:11:39,200

order to find the leak and help to stop

199

00:11:41,829 --> 00:11:40,240

the leak

200

00:11:43,750 --> 00:11:41,839

and i was very impressed with the

201
00:11:44,870 --> 00:11:43,760
quickness and the resourcefulness that

202
00:11:46,630 --> 00:11:44,880
they used

203
00:11:49,190 --> 00:11:46,640
to send those materials to various

204
00:11:50,949 --> 00:11:49,200
different kinds of materials over to us

205
00:11:52,710 --> 00:11:50,959
to launch

206
00:11:54,389 --> 00:11:52,720
just before we came up to the to the

207
00:11:56,790 --> 00:11:54,399
space station which i'm very impressed

208
00:11:58,470 --> 00:11:56,800
with and i'm glad i'm here

209
00:12:00,470 --> 00:11:58,480
i would like to ask a question to dave

210
00:12:02,069 --> 00:12:00,480
wolf

211
00:12:04,310 --> 00:12:02,079
first of all his impressions of the

212
00:12:05,430 --> 00:12:04,320
station he has

213
00:12:07,190 --> 00:12:05,440

has already

214

00:12:08,629 --> 00:12:07,200

acquired some experience and has

215

00:12:09,670 --> 00:12:08,639

exchanged some opinions with michael

216

00:12:11,990 --> 00:12:09,680

fall

217

00:12:14,069 --> 00:12:12,000

his first impressions

218

00:12:16,710 --> 00:12:14,079

how does he feel

219

00:12:19,350 --> 00:12:16,720

on the station uh how this is a question

220

00:12:21,670 --> 00:12:19,360

for dave wolfe what is your first

221

00:12:23,509 --> 00:12:21,680

impression of the first two days on the

222

00:12:25,990 --> 00:12:23,519

station and we believe that you

223

00:12:27,670 --> 00:12:26,000

completely hand over with mike paul and

224

00:12:35,590 --> 00:12:27,680

please tell about your first impression

225

00:12:40,629 --> 00:12:39,110

very positive i feel myself

226

00:12:43,269 --> 00:12:40,639

very positive

227

00:12:45,910 --> 00:12:43,279

this is a wonderful station

228

00:12:47,110 --> 00:12:45,920

a wonderful crew

229

00:12:48,790 --> 00:12:47,120

anatoly

230

00:12:50,790 --> 00:12:48,800

and

231

00:12:54,470 --> 00:12:50,800

there's no feeling it's a very i feel

232

00:12:56,949 --> 00:12:54,480

very secure and i feel uh very good i

233

00:12:59,030 --> 00:12:56,959

feel better

234

00:13:00,870 --> 00:12:59,040

and houston uh i'll go ahead and send

235

00:13:02,470 --> 00:13:00,880

you the picture now from

236

00:13:15,750 --> 00:13:02,480

the base block

237

00:13:15,760 --> 00:13:35,829

well now that's a good picture

238

00:13:52,069 --> 00:13:37,670

yeah and we did see that as you zoomed

239

00:13:52,079 --> 00:14:03,030

much better

240

00:15:30,069 --> 00:14:05,269

and we assume scott is using of course

241

00:15:34,230 --> 00:15:32,230

and michael paul staying with you as you

242

00:15:35,990 --> 00:15:34,240

know the issue of mere safety has become

243

00:15:37,829 --> 00:15:36,000

an important issue in congress right now

244

00:15:40,470 --> 00:15:37,839

and representative sensenbrenner

245

00:15:43,030 --> 00:15:40,480

republican of wisconsin did not want

246

00:15:45,189 --> 00:15:43,040

david wolfe to be left behind when the

247

00:15:47,509 --> 00:15:45,199

shuttle leaves later this week how do

248

00:15:49,189 --> 00:15:47,519

you answer those concerns you who've

249

00:15:53,269 --> 00:15:49,199

been there through these very difficult

250

00:15:56,550 --> 00:15:54,389

well i

251
00:15:58,470 --> 00:15:56,560
i have only positive things to say about

252
00:16:00,230 --> 00:15:58,480
those concerns i

253
00:16:02,790 --> 00:16:00,240
and what i mean is i appreciate the

254
00:16:05,749 --> 00:16:02,800
senator's concern i think the the

255
00:16:08,790 --> 00:16:05,759
interest in safety i think the very open

256
00:16:10,389 --> 00:16:08,800
discussion that the senate and the

257
00:16:12,870 --> 00:16:10,399
congressional interest has provoked it

258
00:16:14,790 --> 00:16:12,880
both nasa and in russia has been very

259
00:16:17,110 --> 00:16:14,800
helpful i think there has been progress

260
00:16:18,230 --> 00:16:17,120
as a result of all of this scrutiny by

261
00:16:21,269 --> 00:16:18,240
congress

262
00:16:23,990 --> 00:16:21,279
however i always have felt safe here

263
00:16:26,710 --> 00:16:24,000

because behind us is a spacecraft called

264

00:16:28,870 --> 00:16:26,720

soyuz and the soyuz in any event can

265

00:16:30,230 --> 00:16:28,880

allow us to leave the station in a real

266

00:16:32,389 --> 00:16:30,240

emergency

267

00:16:34,069 --> 00:16:32,399

the problems of

268

00:16:35,590 --> 00:16:34,079

power management

269

00:16:37,350 --> 00:16:35,600

too much condensation the things that

270

00:16:39,189 --> 00:16:37,360

you've seen reported they are real

271

00:16:40,870 --> 00:16:39,199

problems that we have to deal with but

272

00:16:42,870 --> 00:16:40,880

they're not life-threatening they can

273

00:16:44,790 --> 00:16:42,880

make your life a little uncomfortable

274

00:16:46,389 --> 00:16:44,800

and if they went on for a long time your

275

00:16:49,030 --> 00:16:46,399

life could become miserable but we

276

00:16:51,110 --> 00:16:49,040

generally uh surpass these things and uh

277

00:16:53,030 --> 00:16:51,120

and put them to the side

278

00:16:55,269 --> 00:16:53,040

and michael foale give us a sense of

279

00:16:56,389 --> 00:16:55,279

some of the experiments or what you've

280

00:16:58,550 --> 00:16:56,399

learned

281

00:17:05,189 --> 00:16:58,560

from the collision for example that make

282

00:17:08,150 --> 00:17:06,150

well

283

00:17:10,150 --> 00:17:08,160

no no one likes a collision and uh i

284

00:17:11,110 --> 00:17:10,160

can't say i ever choose to do that one

285

00:17:12,470 --> 00:17:11,120

again

286

00:17:13,510 --> 00:17:12,480

um

287

00:17:14,309 --> 00:17:13,520

however

288

00:17:16,789 --> 00:17:14,319

once

289

00:17:18,390 --> 00:17:16,799

the whole point in most big endeavors

290

00:17:20,789 --> 00:17:18,400

and this is a great endeavor between our

291

00:17:22,949 --> 00:17:20,799

countries russia and america in uh doing

292

00:17:25,270 --> 00:17:22,959

this international program you are going

293

00:17:27,350 --> 00:17:25,280

to have accidents and the strength in

294

00:17:28,950 --> 00:17:27,360

this program is how you overcome the

295

00:17:30,470 --> 00:17:28,960

unexpected problems not in how you

296

00:17:32,630 --> 00:17:30,480

execute all the things that you planned

297

00:17:34,470 --> 00:17:32,640

for and i think the way we're overcoming

298

00:17:35,750 --> 00:17:34,480

this is really what we should be proud

299

00:17:37,510 --> 00:17:35,760

of

300

00:17:40,070 --> 00:17:37,520

and commander you've brought a whole new

301
00:17:44,870 --> 00:17:40,080
uh computer or the parts to make a new

302
00:17:48,710 --> 00:17:46,470
that's true and here it is right here

303
00:17:50,070 --> 00:17:48,720
mike is going to uh lift it up and show

304
00:17:50,950 --> 00:17:50,080
it it is a

305
00:17:53,990 --> 00:17:50,960
new

306
00:17:55,909 --> 00:17:54,000
guidance control computer for the mirror

307
00:17:57,190 --> 00:17:55,919
which hopefully will

308
00:17:59,830 --> 00:17:57,200
help

309
00:18:01,590 --> 00:17:59,840
keep their attitude without losing their

310
00:18:02,789 --> 00:18:01,600
attitude

311
00:18:04,630 --> 00:18:02,799
david wolf

312
00:18:07,190 --> 00:18:04,640
tell me what your goals are for the next

313
00:18:11,750 --> 00:18:07,200

month what key experiments are you going

314

00:18:16,390 --> 00:18:13,669

first order of business is to get the

315

00:18:18,470 --> 00:18:16,400

laboratory in full working order we're

316

00:18:20,549 --> 00:18:18,480

well along the way i wish you could see

317

00:18:22,070 --> 00:18:20,559

it it's a wonderful microgravity

318

00:18:24,070 --> 00:18:22,080

laboratory

319

00:18:25,669 --> 00:18:24,080

we're working with three-dimensional

320

00:18:28,390 --> 00:18:25,679

tissue cultures

321

00:18:30,950 --> 00:18:28,400

the last few days where we are able to

322

00:18:33,350 --> 00:18:30,960

grow three-dimensional tissues which

323

00:18:35,350 --> 00:18:33,360

behave

324

00:18:37,669 --> 00:18:35,360

will help us learn the principles for

325

00:18:40,470 --> 00:18:37,679

tissue engineering and are useful for

326

00:18:54,630 --> 00:18:40,480

our cancer research programs and a whole

327

00:18:54,640 --> 00:19:07,669

dear friends

328

00:19:07,679 --> 00:19:12,870

shuttle

329

00:19:17,270 --> 00:19:15,510

soon the people of earth will celebrate

330

00:19:18,789 --> 00:19:17,280

the 40th anniversary of the first

331

00:19:20,390 --> 00:19:18,799

artificial earth

332

00:19:23,110 --> 00:19:20,400

specialist

333

00:19:25,029 --> 00:19:23,120

right now we have on board a large crew

334

00:19:27,510 --> 00:19:25,039

we have commander jim weatherby who's

335

00:19:30,710 --> 00:19:27,520

the commander of the atlantis crew who

336

00:19:34,230 --> 00:19:30,720

brought his craft

337

00:19:51,350 --> 00:19:34,240

very beautifully and very well docked

338

00:19:56,789 --> 00:19:53,830

saw sputnik when i was small

339

00:19:59,190 --> 00:19:56,799

i am therefore very happy

340

00:20:01,110 --> 00:19:59,200

to have this possibility

341

00:20:02,549 --> 00:20:01,120

opportunity

342

00:20:05,750 --> 00:20:02,559

this is these are

343

00:20:09,029 --> 00:20:05,760

great days that must excite

344

00:20:13,029 --> 00:20:09,039

everyone 40 years ago we had a new word

345

00:20:15,590 --> 00:20:13,750

we

346

00:20:17,350 --> 00:20:15,600

today call it an artificial earth

347

00:20:18,150 --> 00:20:17,360

satellite

348

00:20:22,070 --> 00:20:18,160

and

349

00:20:24,789 --> 00:20:22,080

every person could hear the signals from

350

00:20:27,110 --> 00:20:24,799

space the short radio beeps but they

351
00:20:28,630 --> 00:20:27,120
uh meant very much for each person on

352
00:20:30,789 --> 00:20:28,640
earth

353
00:20:47,110 --> 00:20:30,799
it opened a new era

354
00:20:51,750 --> 00:20:49,350
epic of space has begun

355
00:20:53,750 --> 00:20:51,760
uh starting on that day

356
00:20:57,190 --> 00:20:53,760
uh thanks to that that small sputnik

357
00:20:59,350 --> 00:20:57,200
today we have large inhabited uh large

358
00:21:00,789 --> 00:20:59,360
volumes inhabited by astronauts and

359
00:21:03,909 --> 00:21:00,799
cosmonauts

360
00:21:05,669 --> 00:21:03,919
we have craft such as atlantis

361
00:21:06,710 --> 00:21:05,679
and today we wish to

362
00:21:09,270 --> 00:21:06,720
greet

363
00:21:12,230 --> 00:21:09,280

all the people who started this great

364

00:21:13,669 --> 00:21:12,240

enterprise health happiness great

365

00:21:16,470 --> 00:21:13,679

success

366

00:21:19,750 --> 00:21:18,789

that the labor of many people

367

00:21:23,830 --> 00:21:19,760

who

368

00:21:26,710 --> 00:21:23,840

uh work on something remains unnoticed

369

00:21:29,029 --> 00:21:26,720

but we astronauts and cosmonauts

370

00:21:31,830 --> 00:21:29,039

understand this very well

371

00:21:33,750 --> 00:21:31,840

and we

372

00:21:35,750 --> 00:21:33,760

are today talking to these people a

373

00:21:38,789 --> 00:21:35,760

great thanks to them

374

00:21:43,029 --> 00:21:40,230

great labor

375

00:21:44,950 --> 00:21:43,039

that was the basis of our work

376

00:21:46,470 --> 00:21:44,960

and which would not be possible

377

00:21:48,230 --> 00:21:46,480

otherwise

378

00:21:50,549 --> 00:21:48,240

thank you very much

379

00:21:52,710 --> 00:21:50,559

health to you happiness to you

380

00:21:53,590 --> 00:21:52,720

personally to your families

381

00:21:57,029 --> 00:21:53,600

and

382

00:22:07,029 --> 00:22:00,630

to our common cause the opening the

383

00:22:14,230 --> 00:22:08,549

land to smear

384

00:22:18,230 --> 00:22:16,310

yes wendy uh i know you're in the middle

385

00:22:20,230 --> 00:22:18,240

of your checks one other thing that's

386

00:22:22,430 --> 00:22:20,240

been brought up is that in the coal

387

00:22:25,830 --> 00:22:22,440

start procedure in flight supplement

388

00:22:27,830 --> 00:22:25,840

8-16 of the orbitops checklist in step

389

00:22:30,070 --> 00:22:27,840

one you powered off the pgsc in the

390

00:22:32,070 --> 00:22:30,080

expansion chassis and then in step three

391

00:22:34,390 --> 00:22:32,080

you powered them back up apparently

392

00:22:37,029 --> 00:22:34,400

there is a documented uh

393

00:22:39,590 --> 00:22:37,039

problem with doing that without waiting

394

00:22:42,230 --> 00:22:39,600

for a couple of minutes on occasion when

395

00:22:44,149 --> 00:22:42,240

a pgsc is powered up immediately after

396

00:22:47,190 --> 00:22:44,159

being powered down

397

00:22:49,510 --> 00:22:47,200

it doesn't power back up and

398

00:22:51,590 --> 00:22:49,520

if everything else checks out we would

399

00:22:53,590 --> 00:22:51,600

like to suggest trying it again but

400

00:22:57,750 --> 00:22:53,600

waiting two minutes between powering

401

00:23:01,029 --> 00:22:59,110

well there was already a two minute

402

00:23:02,549 --> 00:23:01,039

delay and it looks like the breakout box

403

00:23:04,390 --> 00:23:02,559

has a problem which i'm still trying to