



1
00:01:11,220 --> 00:01:27,810
yo Mirage tinea norm

2
00:01:34,450 --> 00:01:32,290
good morning dance gee it get stuck to

3
00:01:38,680 --> 00:01:34,460
you people wake up time again st. my

4
00:01:40,440 --> 00:01:38,690
strange yeah who door on and we're on a

5
00:01:49,570 --> 00:01:40,450
string here we also hear you have a

6
00:01:50,590 --> 00:01:49,580
seminal stowaway on board ah yeah we're

7
00:01:53,200 --> 00:01:50,600
gonna I guess we're gonna have to

8
00:01:55,480 --> 00:01:53,210
confess to it he wasn't on board when we

9
00:02:01,150 --> 00:01:55,490
launched and he's not bored now so he

10
00:02:03,219 --> 00:02:01,160
must be a stowaway shuttle commander

11
00:02:05,350 --> 00:02:03,229
hoot Gibson and pilot Charlie Precourt

12
00:02:07,060 --> 00:02:05,360
have been involved in final set ups of

13
00:02:08,980 --> 00:02:07,070

equipment aboard atlantis and the

14

00:02:11,470 --> 00:02:08,990

transfer of some logistical hardware

15

00:02:14,830 --> 00:02:11,480

from the mirror into the shuttle which

16

00:02:17,380 --> 00:02:14,840

will be returned to Earth much of that

17

00:02:19,300 --> 00:02:17,390

equipment and experimentation was

18

00:02:20,800 --> 00:02:19,310

accumulated by the mere 18 crew during

19

00:02:29,210 --> 00:02:20,810

their three and a half months stay

20

00:02:43,110 --> 00:02:33,720

Atlanta's mirror Spacelab Houston spot

21

00:02:44,580 --> 00:02:43,120

meter that's a possible this view from

22

00:02:46,970 --> 00:02:44,590

payload Bay cameras looking up the

23

00:02:50,030 --> 00:02:46,980

Cristal module if you have up there

24

00:02:52,440 --> 00:02:50,040

there's two more spot meters on board

25

00:02:54,150 --> 00:02:52,450

let me tell you where the stowage is for

26

00:02:57,060 --> 00:02:54,160

three spot meter says we're not sure

27

00:02:59,280 --> 00:02:57,070

which one you were holding one should

28

00:03:02,310 --> 00:02:59,290

have been in a 6 ok we were just

29

00:03:05,210 --> 00:03:02,320

wondering if we had any extras because

30

00:03:11,130 --> 00:03:05,220

the Russians have a spot meter that is

31

00:03:15,230 --> 00:03:11,140

lacking batteries oh now I understand we

32

00:03:17,910 --> 00:03:15,240

have not identified extra batteries yet

33

00:03:33,630 --> 00:03:17,920

ok yeah all of us brought mater's our

34

00:03:40,230 --> 00:03:37,860

Atlantis Houston hoot let's delete em

35

00:03:49,260 --> 00:03:40,240

gasps check out we can work that during

36

00:03:54,760 --> 00:03:52,030

Jim McKenna Aviation Week for dr.

37

00:03:56,830 --> 00:03:54,770

thagard what is the number one problem

38

00:03:59,350 --> 00:03:56,840

or issue that you believe should be

39

00:04:02,290 --> 00:03:59,360

addressed before Shannon lucid arrives

40

00:04:07,500 --> 00:04:02,300

at mere next next March as well as with

41

00:04:13,300 --> 00:04:10,390

my impression is psychological aspects

42

00:04:16,180 --> 00:04:13,310

party probably loon largest there

43

00:04:18,430 --> 00:04:16,190

doesn't really seem to be big problems

44

00:04:19,870 --> 00:04:18,440

or physiologically I think we still have

45

00:04:22,180 --> 00:04:19,880

to find out what's happening with

46

00:04:24,610 --> 00:04:22,190

mineral mineral loss from bone for

47

00:04:26,410 --> 00:04:24,620

instance and obviously radiation is an

48

00:04:29,830 --> 00:04:26,420

ongoing problem as long as you're in

49

00:04:31,990 --> 00:04:29,840

space but I think anybody can do three

50

00:04:34,660 --> 00:04:32,000

months or four months as i'm doing and

51
00:04:36,430 --> 00:04:34,670
six months in my opinion and longer is a

52
00:04:38,530 --> 00:04:36,440
different different matter entirely I

53
00:04:39,790 --> 00:04:38,540
think Shannon won't have any problem but

54
00:04:41,620 --> 00:04:39,800
I think we need to address some things

55
00:04:45,550 --> 00:04:41,630
for the folks who plan to be up here six

56
00:04:48,370 --> 00:04:45,560
months and launder this is Paul Houston

57
00:04:50,740 --> 00:04:48,380
with USA Today for norm thagard sort of

58
00:04:54,010 --> 00:04:50,750
following up on the same question what

59
00:04:56,170 --> 00:04:54,020
about the systems on me roar the setup

60
00:04:58,690 --> 00:04:56,180
or configuration should absolutely not

61
00:05:03,160 --> 00:04:58,700
be done with the International Space

62
00:05:05,470 --> 00:05:03,170
Station if there is anything well from

63
00:05:07,570 --> 00:05:05,480

what I saw it it takes a considerable

64

00:05:09,880 --> 00:05:07,580

offers from two folks to keep mir

65

00:05:12,100 --> 00:05:09,890

station operating i think you would want

66

00:05:14,260 --> 00:05:12,110

to minimize the amount of maintenance

67

00:05:16,270 --> 00:05:14,270

ongoing that were required for a new

68

00:05:19,000 --> 00:05:16,280

space station I don't think I'd run

69

00:05:21,430 --> 00:05:19,010

conduits both air and electrical through

70

00:05:22,780 --> 00:05:21,440

hatches which make it difficult if not

71

00:05:25,570 --> 00:05:22,790

impossible to close those hatches

72

00:05:27,730 --> 00:05:25,580

rapidly if you needed to and lastly I

73

00:05:29,320 --> 00:05:27,740

would certainly pay a lot of attention

74

00:05:31,210 --> 00:05:29,330

to sketch because if there were a

75

00:05:34,780 --> 00:05:31,220

problem that we had it was finding

76

00:05:37,060 --> 00:05:34,790

places to store things next to open for

77

00:05:40,870 --> 00:05:37,070

the voice of America this is for vitamin

78

00:05:43,420 --> 00:05:40,880

D roof nagai cytokines goal 7-0 go

79

00:05:55,960 --> 00:05:43,430

jungle dragon fco privilege cinnabar tu

80

00:06:06,800 --> 00:05:58,700

estancia technisches kids that I blog

81

00:06:10,730 --> 00:06:06,810

with it used to surely the circumstances

82

00:06:13,100 --> 00:06:10,740

of space of the cosmos where things just

83

00:06:14,719 --> 00:06:13,110

tend to fly around by them you know

84

00:06:18,680 --> 00:06:14,729

where you leave something somewhere it

85

00:06:22,180 --> 00:06:18,690

kind of floats there and if you try and

86

00:06:27,080 --> 00:06:22,190

put something in a particular place it

87

00:06:30,920 --> 00:06:27,090

doesn't stay there and the trick is to

88

00:06:32,779 --> 00:06:30,930

learn how to arrange everything for that

89

00:06:36,980 --> 00:06:32,789

bathroom and to make sure that it is

90

00:06:38,839 --> 00:06:36,990

convenient for operation in space etat

91

00:06:41,260 --> 00:06:38,849

Halverson of Florida today for hoot

92

00:06:43,969 --> 00:06:41,270

Gibson who the mission to date has been

93

00:06:45,980 --> 00:06:43,979

remarkably smooth but like with all

94

00:06:48,740 --> 00:06:45,990

enterprises there's probably room for

95

00:06:51,260 --> 00:06:48,750

improvement what types of lessons have

96

00:06:53,120 --> 00:06:51,270

you learned it can be applied to future

97

00:06:59,450 --> 00:06:53,130

shuttle-mir missions or the Assembly of

98

00:07:01,879 --> 00:06:59,460

the space station Todd like you say it

99

00:07:03,830 --> 00:07:01,889

has done pretty smoothly there's an

100

00:07:05,570 --> 00:07:03,840

aspect of it though that you don't see

101
00:07:07,760 --> 00:07:05,580
that's that's how hard we're hustling

102
00:07:09,290 --> 00:07:07,770
here on board every day to accomplish

103
00:07:13,010 --> 00:07:09,300
all the things that we need to get done

104
00:07:15,620 --> 00:07:13,020
on a long-duration flight or a space

105
00:07:16,939 --> 00:07:15,630
station flight you're not going to be

106
00:07:19,909 --> 00:07:16,949
able to keep up the kind of pace that

107
00:07:22,100 --> 00:07:19,919
we've been keeping up and a lot of it

108
00:07:27,620 --> 00:07:22,110
has been associated with the water

109
00:07:29,839 --> 00:07:27,630
difficult area of transfers of material

110
00:07:32,330 --> 00:07:29,849
from the orbiter to the mayor and from

111
00:07:35,600 --> 00:07:32,340
the mirror back to the orbiter both

112
00:07:37,279 --> 00:07:35,610
equipment future test equipment

113
00:07:39,999 --> 00:07:37,289

completed test samples and all those

114

00:07:42,439 --> 00:07:40,009

sorts of things now we expected that

115

00:07:45,439 --> 00:07:42,449

this was going to be a pretty big effort

116

00:07:46,909 --> 00:07:45,449

and there was going to be a lot of a lot

117

00:07:48,379 --> 00:07:46,919

of uncertainty and it was actually going

118

00:07:49,909 --> 00:07:48,389

to be a lot of unknowable they actually

119

00:07:51,320 --> 00:07:49,919

got up here and tried to do it and that

120

00:07:54,560 --> 00:07:51,330

in fact is kind of what we've bumped

121

00:07:56,360 --> 00:07:54,570

into and we've been we've been working a

122

00:07:58,360 --> 00:07:56,370

little bit extra a little bit harder to

123

00:08:00,770 --> 00:07:58,370

try and accommodate all of those things

124

00:08:03,350 --> 00:08:00,780

but that's the one area and I think for

125

00:08:06,740 --> 00:08:03,360

the future docking flights the transfer

126

00:08:09,300 --> 00:08:06,750

plan the locations the storage all of it

127

00:08:11,940 --> 00:08:09,310

needs to be detailed down to it

128

00:08:13,770 --> 00:08:11,950

for us to really be able to do it

129

00:08:15,210 --> 00:08:13,780

smoothly and efficiently and I think

130

00:08:17,850 --> 00:08:15,220

that's one of the big lessons that we

131

00:08:19,230 --> 00:08:17,860

will have seen out of this way when he's

132

00:08:20,970 --> 00:08:19,240

let me finish by saying that was not

133

00:08:22,560 --> 00:08:20,980

unexpected we pretty well knew that that

134

00:08:25,080 --> 00:08:22,570

was the kind of situation we were facing

135

00:08:27,000 --> 00:08:25,090

when we got up here and and I think

136

00:08:31,140 --> 00:08:27,010

we've adapted to it about as well as you

137

00:08:33,120 --> 00:08:31,150

could green brown with GPI 4dr thagard

138

00:08:34,710 --> 00:08:33,130

if you had to do it all again what would

139

00:08:36,570 --> 00:08:34,720

you have done differently or brought

140

00:08:48,600 --> 00:08:36,580

with you that you didn't have to prepare

141

00:08:50,670 --> 00:08:48,610

for four months in space i think i would

142

00:08:52,710 --> 00:08:50,680

have paid a lot more attention to the to

143

00:08:58,260 --> 00:08:52,720

the food that was stored for us on board

144

00:09:00,240 --> 00:08:58,270

i think that in general we thought there

145

00:09:02,370 --> 00:09:00,250

is room for improvement there but

146

00:09:04,350 --> 00:09:02,380

otherwise i felt pretty good with what I

147

00:09:06,450 --> 00:09:04,360

already had on board I don't require a

148

00:09:11,190 --> 00:09:06,460

lot i had two good companions and that

149

00:09:13,800 --> 00:09:11,200

made up for a lot of efficiencies our

150

00:09:16,200 --> 00:09:13,810

lane news day for norm thagard when you

151

00:09:17,970 --> 00:09:16,210

said it psychologically six-month

152

00:09:19,980 --> 00:09:17,980

mission is a different matter entirely

153

00:09:21,360 --> 00:09:19,990

what did you mean did you get on each

154

00:09:25,170 --> 00:09:21,370

other's nerves or were you starting to

155

00:09:27,180 --> 00:09:25,180

get on each other's nerves it had

156

00:09:29,370 --> 00:09:27,190

nothing to do with crew relationships

157

00:09:30,960 --> 00:09:29,380

though so remain fine throughout in fact

158

00:09:34,670 --> 00:09:30,970

I can honestly say there were never any

159

00:09:36,840 --> 00:09:34,680

serious disputes among the crew and

160

00:09:38,880 --> 00:09:36,850

probably wouldn't have been even on a

161

00:09:40,860 --> 00:09:38,890

six-month mission for the American envoy

162

00:09:43,620 --> 00:09:40,870

Russian space station you're the only

163

00:09:46,680 --> 00:09:43,630

English speaker on board in general the

164

00:09:48,690 --> 00:09:46,690

cultural isolation is extreme there were

165

00:09:51,030 --> 00:09:48,700

times when I went 72 hours without

166

00:09:54,300 --> 00:09:51,040

speaking to an english-speaking person I

167

00:09:56,220 --> 00:09:54,310

didn't get a lot of news up here all of

168

00:09:58,380 --> 00:09:56,230

those things start to weigh heavily

169

00:09:59,880 --> 00:09:58,390

after a while since on you from the

170

00:10:02,010 --> 00:09:59,890

start I could do anything for three

171

00:10:03,840 --> 00:10:02,020

months it wasn't going to be a problem

172

00:10:05,610 --> 00:10:03,850

for me if I've been looking at six

173

00:10:07,140 --> 00:10:05,620

months I would have been really worried

174

00:10:09,840 --> 00:10:07,150

at about three months that I wasn't

175

00:10:12,780 --> 00:10:09,850

going to make it their impressions of

176

00:10:15,540 --> 00:10:12,790

the coordination between the ground

177

00:10:18,180 --> 00:10:15,550

control centers and the orbiter and

178

00:10:20,310 --> 00:10:18,190

mirror especially with the science crew

179

00:10:21,610 --> 00:10:20,320

and norm seems to have gotten a bit

180

00:10:24,490 --> 00:10:21,620

testy at times in

181

00:10:26,530 --> 00:10:24,500

last couple of days over things that you

182

00:10:27,790 --> 00:10:26,540

all are being asked to do and there have

183

00:10:30,280 --> 00:10:27,800

been concerns that you've been

184

00:10:32,170 --> 00:10:30,290

overbooked could each of the commanders

185

00:10:33,519 --> 00:10:32,180

please talk a little bit about your

186

00:10:35,769 --> 00:10:33,529

impressions of that do you feel

187

00:10:37,300 --> 00:10:35,779

overbooked is this and just an it that's

188

00:10:38,890 --> 00:10:37,310

being picked or is this a serious

189

00:10:44,700 --> 00:10:38,900

problem that will have to be worked out

190

00:10:48,970 --> 00:10:47,650

this regard to norm standing testy let

191

00:10:51,579 --> 00:10:48,980

me just say that not all this sounds

192

00:10:53,829 --> 00:10:51,589

like that and i don't i don't believe

193

00:10:57,070 --> 00:10:53,839

that norm has been testy or meant to

194

00:11:00,730 --> 00:10:57,080

sound testy doing any of this i have to

195

00:11:03,370 --> 00:11:00,740

give the ground tremendous tremendous

196

00:11:06,040 --> 00:11:03,380

grades on on the coordination and the

197

00:11:07,990 --> 00:11:06,050

way they put everything together in a

198

00:11:09,820 --> 00:11:08,000

way that things have flowed up here this

199

00:11:14,110 --> 00:11:09,830

is not an easy thing to coordinate the

200

00:11:19,030 --> 00:11:14,120

activities of of mere 18 min 19 and SDS

201
00:11:22,120 --> 00:11:19,040
71 and i think that both mission control

202
00:11:23,769 --> 00:11:22,130
centers the soup and houston in my view

203
00:11:25,750 --> 00:11:23,779
and from what I've seen have done just a

204
00:11:28,690 --> 00:11:25,760
spectacular job of learning this are all

205
00:11:30,550 --> 00:11:28,700
in making this flow smoothly so that's

206
00:11:33,160 --> 00:11:30,560
what i think about the whole thing i

207
00:11:35,920 --> 00:11:33,170
would like to hear the russian

208
00:11:43,590 --> 00:11:35,930
translation come up of the question for

209
00:11:51,970 --> 00:11:49,120
really didn't have any concerns such a

210
00:11:55,350 --> 00:11:51,980
question really surprises me because

211
00:11:58,480 --> 00:11:55,360
norm was prepared for all experiments

212
00:12:03,280 --> 00:11:58,490
and he performed them like spectacularly

213
00:12:07,269 --> 00:12:03,290

without any help from us and he didn't

214

00:12:10,660 --> 00:12:07,279

ask for any help from us and he didn't

215

00:12:18,540 --> 00:12:10,670

need our help so there weren't really

216

00:12:26,800 --> 00:12:23,500

would like to say to answer someone from

217

00:12:28,390 --> 00:12:26,810

a different angle on this question I've

218

00:12:31,420 --> 00:12:28,400

got a ganar for when we're talking about

219

00:12:34,680 --> 00:12:31,430

coordinating the to ground control

220

00:12:38,730 --> 00:12:34,690

centers come in the coordinate

221

00:12:43,740 --> 00:12:38,740

of crews in orbit I think this is a very

222

00:12:48,450 --> 00:12:43,750

important issue and I think that it must

223

00:12:51,210 --> 00:12:48,460

be carefully prepared very very much

224

00:12:53,030 --> 00:12:51,220

like a sports team this sports team

225

00:12:56,160 --> 00:12:53,040

spend a lot of time training and in

226

00:12:59,100 --> 00:12:56,170

coordinating an understanding among team

227

00:13:02,610 --> 00:12:59,110

members so that the team members can

228

00:13:06,540 --> 00:13:02,620

play well on the field for example like

229

00:13:09,870 --> 00:13:06,550

the Houston rotten rockets and then you

230

00:13:15,390 --> 00:13:09,880

can achieve very great successes in this

231

00:13:19,260 --> 00:13:15,400

way most everything must be carefully

232

00:13:20,520 --> 00:13:19,270

prepared for a flight so that flight

233

00:13:25,770 --> 00:13:20,530

will be a good training ground for

234

00:13:27,420 --> 00:13:25,780

future work this is seth borenstein from

235

00:13:30,180 --> 00:13:27,430

the Orlando Sentinel for a norm thagard

236

00:13:31,950 --> 00:13:30,190

you after spending nearly four months on

237

00:13:34,410 --> 00:13:31,960

mere you're just about to leave it can

238

00:13:35,430 --> 00:13:34,420

tell me what parts of me are you going

239

00:13:37,860 --> 00:13:35,440

to miss and what's going to be going

240

00:13:41,340 --> 00:13:37,870

through your head as as you pull away

241

00:13:43,560 --> 00:13:41,350

and watching it the first thing that

242

00:13:46,560 --> 00:13:43,570

comes to mind is not too long after the

243

00:13:48,150 --> 00:13:46,570

flight is over the mere 18 crew desert

244

00:13:50,160 --> 00:13:48,160

separate ways which means vulajin

245

00:13:52,410 --> 00:13:50,170

Gennady back to Russia while I remain in

246

00:13:54,060 --> 00:13:52,420

the united states that makes me sad of

247

00:13:57,990 --> 00:13:54,070

course because I think we've gotten to

248

00:14:00,540 --> 00:13:58,000

be good friends this may well be

249

00:14:02,370 --> 00:14:00,550

probably is my last space flights off to

250

00:14:04,160 --> 00:14:02,380

think about the fact that I won't get to

251

00:14:07,080 --> 00:14:04,170

experience this again and that also

252

00:14:10,790 --> 00:14:07,090

whether we're on nurse station or on the

253

00:14:13,350 --> 00:14:10,800

space shuttle I would think about that

254

00:14:15,630 --> 00:14:13,360

this approach and earth news fan atole

255

00:14:17,910 --> 00:14:15,640

you were aboard mir five years ago when

256

00:14:19,140 --> 00:14:17,920

crystal first arrived what was your

257

00:14:21,000 --> 00:14:19,150

impression going through the docking

258

00:14:22,470 --> 00:14:21,010

channel especially since he came from a

259

00:14:25,020 --> 00:14:22,480

u.s. shuttle rather than the Soviet

260

00:14:26,880 --> 00:14:25,030

shadow of a proscan italiana

261

00:14:30,150 --> 00:14:26,890

heedlessness dance ameerpet lateness odd

262

00:14:33,510 --> 00:14:30,160

queda pribyl model crystal cave

263

00:14:35,940 --> 00:14:33,520

especially Nia a stir coefficient anneli

264

00:14:37,590 --> 00:14:35,950

which also be no without facts to

265

00:14:37,590 --> 00:14:44,870

withdraw sweep rebel in Americans

266

00:14:54,560 --> 00:14:50,580

rather than my style I think that the

267

00:14:56,970 --> 00:14:54,570

docking module docking node is in a good

268

00:15:00,660 --> 00:14:56,980

technical condition although of course

269

00:15:03,780 --> 00:15:00,670

the station itself has been in orbit for

270

00:15:09,540 --> 00:15:03,790

a long time and it should always be kept

271

00:15:13,590 --> 00:15:09,550

in mind that in in space space is a very

272

00:15:16,130 --> 00:15:13,600

aggressive environment and right now

273

00:15:18,870 --> 00:15:16,140

we're testing this this and this

274

00:15:23,460 --> 00:15:18,880

engineering technology over a course of

275

00:15:29,130 --> 00:15:23,470

many years experience opportunities to

276

00:15:31,560 --> 00:15:29,140

matheran my impressions of the dynamics

277

00:15:37,080 --> 00:15:31,570

of controlling the complex from the

278

00:15:41,310 --> 00:15:37,090

shuttle and then we alternated with

279

00:15:46,170 --> 00:15:41,320

controlling the complex with mere all of

280

00:15:50,610 --> 00:15:46,180

this depended on the docking module and

281

00:15:55,140 --> 00:15:50,620

i think that the structure showed itself

282

00:15:58,710 --> 00:15:55,150

to be a excellent piece of equipment and

283

00:16:00,210 --> 00:15:58,720

we always keep in mind that highly

284

00:16:04,590 --> 00:16:00,220

qualified specialists were engaged in

285

00:16:07,170 --> 00:16:04,600

fabricating it this is James for from

286

00:16:08,520 --> 00:16:07,180

WFTV in Orlando for dr. thagard is sort

287

00:16:10,800 --> 00:16:08,530

of a follow-up to set born science

288

00:16:13,920 --> 00:16:10,810

question what's your concern is you get

289

00:16:15,780 --> 00:16:13,930

ready to land and come back into 1g

290

00:16:17,040 --> 00:16:15,790

after being in microgravity so long and

291

00:16:21,900 --> 00:16:17,050

what are you going to do once you get

292

00:16:24,120 --> 00:16:21,910

back here on earth perhaps the answer

293

00:16:26,040 --> 00:16:24,130

that question explains what was

294

00:16:29,250 --> 00:16:26,050

interpreted as being tested you heard

295

00:16:32,520 --> 00:16:29,260

the girl I could complain this morning

296

00:16:34,320 --> 00:16:32,530

that I'll because of task I was assigned

297

00:16:36,210 --> 00:16:34,330

I've missed my exercise bill I'm

298

00:16:38,579 --> 00:16:36,220

concerned about physical condition when

299

00:16:41,010 --> 00:16:38,589

I get back on the ground the Russians

300

00:16:43,860 --> 00:16:41,020

believe that you need to exercise with

301
00:16:46,650 --> 00:16:43,870
21 hours a day and that that it ought to

302
00:16:49,500 --> 00:16:46,660
ramp up in severity toward the end of

303
00:16:51,720 --> 00:16:49,510
the flight just before coming home and I

304
00:16:53,880 --> 00:16:51,730
concur I think that's important too so

305
00:16:55,710 --> 00:16:53,890
we have to do something and we ought to

306
00:16:58,079 --> 00:16:55,720
do what we can to protect those

307
00:16:59,369 --> 00:16:58,089
sighs foods just before coming home

308
00:17:02,220 --> 00:16:59,379
other than that i'm not sure i've been

309
00:17:04,860 --> 00:17:02,230
so so testy but that that came out of a

310
00:17:06,419 --> 00:17:04,870
real concern about being healthy and

311
00:17:11,399 --> 00:17:06,429
being able to walk and do well

312
00:17:13,079 --> 00:17:11,409
immediately upon return to my reports

313
00:17:19,140 --> 00:17:13,089

have led me here to do you avoid him

314

00:17:25,289 --> 00:17:19,150

question from Moscow Russian commanders

315

00:17:28,680 --> 00:17:25,299

I wanted to know about your colleague le

316

00:17:31,140 --> 00:17:28,690

Polyakov that there were there was a

317

00:17:35,220 --> 00:17:31,150

female to remember who performed

318

00:17:39,510 --> 00:17:35,230

traditional female tasks such as washing

319

00:17:50,899 --> 00:17:39,520

dishes I wanted to know your opinions on

320

00:18:00,860 --> 00:17:56,149

it's difficult to say such particular

321

00:18:05,210 --> 00:18:00,870

changes there weren't any such changes

322

00:18:07,350 --> 00:18:05,220

the up here on the station we have a

323

00:18:08,580 --> 00:18:07,360

particular way of working in it really

324

00:18:11,009 --> 00:18:08,590

doesn't matter if you're a man or a

325

00:18:15,720 --> 00:18:11,019

woman everybody's got their

326

00:18:26,250 --> 00:18:15,730

responsibilities everybody tries to do

327

00:18:29,870 --> 00:18:26,260

them i would say that with all these

328

00:18:40,289 --> 00:18:29,880

people here that it is more interesting

329

00:18:42,870 --> 00:18:40,299

up here cannot yet add anything of

330

00:18:52,139 --> 00:18:42,880

course women are needed and the more the

331

00:18:55,350 --> 00:18:52,149

better first of all we have this

332

00:19:02,580 --> 00:18:55,360

gigantic complex and orbit this is a new

333

00:19:04,169 --> 00:19:02,590

step in the creation of this is

334

00:19:06,659 --> 00:19:04,179

something that seal coughs get one time

335

00:19:09,600 --> 00:19:06,669

had dreamed about all of these dreams

336

00:19:13,710 --> 00:19:09,610

have been practically implemented and

337

00:19:20,129 --> 00:19:13,720

are being implemented and of course you

338

00:19:22,590 --> 00:19:20,139

can't do that without women you said I

339

00:19:24,659 --> 00:19:22,600

guess so story I guess we're ready to

340

00:19:26,669 --> 00:19:24,669

proceed we have come to that point in

341

00:19:29,879 --> 00:19:26,679

the mission that I guess all of us have

342

00:19:31,350 --> 00:19:29,889

actually been writing to add some degree

343

00:19:34,350 --> 00:19:31,360

and that's the point where we have to

344

00:19:35,850 --> 00:19:34,360

say farewell to the men 19 crew and I'm

345

00:19:37,590 --> 00:19:35,860

glad we called it farewell and that

346

00:19:41,070 --> 00:19:37,600

goodbye because we are going to see them

347

00:19:42,990 --> 00:19:41,080

very shortly they're going to be going

348

00:19:46,560 --> 00:19:43,000

much too long they're going to be gone

349

00:19:48,419 --> 00:19:46,570

60 days but we are all of us I think

350

00:19:52,529 --> 00:19:48,429

looking forward to when we get them back

351
00:19:55,830 --> 00:19:52,539
on earth we have started with the

352
00:19:58,019 --> 00:19:55,840
mission of mere 18 sts 71 and mid

353
00:20:00,690 --> 00:19:58,029
nineteen

354
00:20:04,139 --> 00:20:00,700
is intended to be and what will be a

355
00:20:09,060 --> 00:20:04,149
very long a very long program a very

356
00:20:11,909 --> 00:20:09,070
fruitful program 50s 71 is going to be

357
00:20:16,169 --> 00:20:11,919
drawing to a close here in a very few

358
00:20:20,639 --> 00:20:16,179
days when we return with the crew of

359
00:20:22,379 --> 00:20:20,649
mirror 18 back to the earth however none

360
00:20:25,019 --> 00:20:22,389
of us feel like the mission is really

361
00:20:28,320 --> 00:20:25,029
going to be complete until we get not

362
00:20:30,329 --> 00:20:28,330
just our our comrades our compatriots on

363
00:20:33,779 --> 00:20:30,339

Muir 19 but are very good friends from

364

00:20:37,739 --> 00:20:33,789

their 19 back to earth we're hoping to

365

00:20:40,680 --> 00:20:37,749

be in Kazakhstan when they come back in

366

00:20:43,469 --> 00:20:40,690

the series so our mission none of us

367

00:20:46,919 --> 00:20:43,479

have felt would be complete until all of

368

00:20:49,950 --> 00:20:46,929

our fellow crew members are back again

369

00:20:53,399 --> 00:20:49,960

to the earth so we're here today to tell

370

00:20:57,079 --> 00:20:53,409

them fair wall and the mission that

371

00:21:00,690 --> 00:20:57,089

we've set out on is a very ambitions our

372

00:21:04,339 --> 00:21:00,700

phase one is a continuation of what we

373

00:21:07,229 --> 00:21:04,349

started with mere 18 min 18 sts 71

374

00:21:10,769 --> 00:21:07,239

international space station will be the

375

00:21:14,489 --> 00:21:10,779

next continuation of what we started and

376

00:21:17,219 --> 00:21:14,499

what we're preparing to say farewell to

377

00:21:19,919 --> 00:21:17,229

just one small part of that farm

378

00:21:24,089 --> 00:21:19,929

continuing overall program so we are

379

00:21:26,369 --> 00:21:24,099

drawing to a close one mission the

380

00:21:29,219 --> 00:21:26,379

preview mission the continuing mission

381

00:21:31,409 --> 00:21:29,229

is a mission of many many years and that

382

00:21:33,539 --> 00:21:31,419

is going to continue on long after we

383

00:21:39,239 --> 00:21:33,549

have landed and long after been 19 has

384

00:21:40,859 --> 00:21:39,249

landed when we leave Mia 19 is going to

385

00:21:44,369 --> 00:21:40,869

be very much in our thoughts and in our

386

00:21:48,719 --> 00:21:44,379

hearts we want to leave them with a few

387

00:21:50,789 --> 00:21:48,729

presents to remember us by and so we

388

00:21:55,289 --> 00:21:50,799

have a couple of presents to present to

389

00:21:57,320 --> 00:21:55,299

Anatoly and to Nick at this time so

390

00:22:01,829 --> 00:21:57,330

they'll be able to think of us we have a

391

00:22:04,739 --> 00:22:01,839

couple of our crew pins so that they can

392

00:22:06,359 --> 00:22:04,749

keep us in their thoughts during the

393

00:22:08,240 --> 00:22:06,369

next couple of months before they come

394

00:22:12,470 --> 00:22:08,250

back

395

00:22:22,820 --> 00:22:12,480

and we also have a SD s71 wristwatch for

396

00:22:27,320 --> 00:22:22,830

an Italian Nick very shortly we're going

397

00:22:30,320 --> 00:22:27,330

to be closing the hatch tonight and

398

00:22:34,010 --> 00:22:30,330

tomorrow we'll each climb into our own

399

00:22:37,520 --> 00:22:34,020

individual rockets speaking of rockets I

400

00:22:39,320 --> 00:22:37,530

bathroom Houston Rockets I don't know if

401
00:22:41,450 --> 00:22:39,330
you noticed but doing the press

402
00:22:44,180 --> 00:22:41,460
conference during the press conference

403
00:22:47,030 --> 00:22:44,190
and it's already mentioned the houston

404
00:22:49,340 --> 00:22:47,040
rockets and it turns out he's a very big

405
00:22:51,440 --> 00:22:49,350
fan of the rockets and so we ever know

406
00:22:54,800 --> 00:22:51,450
another present that we'd like to

407
00:22:57,640 --> 00:22:54,810
present to Anatoly and it's the new

408
00:23:02,020 --> 00:22:57,650
emblem of the Houston Rockets we have a

409
00:23:06,100 --> 00:23:02,030
Houston Rockets t-shirt and it has the

410
00:23:11,240 --> 00:23:06,110
it has the brand new emblem and anatoly

411
00:23:14,270 --> 00:23:11,250
it so true it's a druggie fedora that's

412
00:23:16,640 --> 00:23:14,280
another present for anatoly never know

413
00:23:23,640 --> 00:23:16,650

the emblems know the emblem houston

414

00:23:32,620 --> 00:23:27,070

are you able to see this new emblem on

415

00:23:36,810 --> 00:23:32,630

the TV yes sir we certainly are in a boy

416

00:23:39,550 --> 00:23:36,820

talk about basketball players in the air

417

00:23:44,230 --> 00:23:39,560

you all are getting more air time there

418

00:23:54,430 --> 00:23:44,240

than anyone ever and that's all we can

419

00:23:57,400 --> 00:23:54,440

really jump at least I tell you I've

420

00:24:00,670 --> 00:23:57,410

Lisa well we have a couple of other

421

00:24:02,890 --> 00:24:00,680

small presents for them we have just a

422

00:24:06,550 --> 00:24:02,900

little bit of fresh fruit and just a

423

00:24:09,130 --> 00:24:06,560

little bit of of a real American

424

00:24:10,630 --> 00:24:09,140

tradition I guess we have a few bags of

425

00:24:13,750 --> 00:24:10,640

tortillas that we'd like to leave with

426

00:24:16,180 --> 00:24:13,760

them and we have the remainder of our

427

00:24:19,330 --> 00:24:16,190

fresh fruit that we'd like to leave with

428

00:24:29,130 --> 00:24:19,340

mere 19 because I'm not sure it may be a

429

00:24:33,520 --> 00:24:31,240

Nikolai you're saying this will be my

430

00:24:35,920 --> 00:24:33,530

happiness so i guess i guess we're home

431

00:24:47,370 --> 00:24:35,930

with we hit home with many of our

432

00:24:56,490 --> 00:24:49,500

okay who we're looking at some great

433

00:24:58,650 --> 00:24:56,500

smiles there someday we'll be growing

434

00:25:03,150 --> 00:24:58,660

oranges up there it's not too long from

435

00:25:06,480 --> 00:25:03,160

now oh so I guess we're going to leave

436

00:25:08,550 --> 00:25:06,490

Rudnick which is anatoly's cosine

437

00:25:10,020 --> 00:25:08,560

anatoly's crew call sign I guess we're

438

00:25:12,780 --> 00:25:10,030

going to leave just right Nick one and

439

00:25:18,750 --> 00:25:12,790

Rudnick to up there may be a word or two

440

00:25:21,690 --> 00:25:18,760

from rodnik three and case you didn't

441

00:25:25,020 --> 00:25:21,700

know we were called rodnik which is a

442

00:25:27,870 --> 00:25:25,030

word which means exploring it then I a

443

00:25:30,840 --> 00:25:27,880

water spring in the woods and anatoly

444

00:25:33,060 --> 00:25:30,850

Rudnick one and Nikolai Rebeck two and i

445

00:25:35,640 --> 00:25:33,070

was driving through and we trained

446

00:25:40,530 --> 00:25:35,650

together at the backup crew together

447

00:25:43,410 --> 00:25:40,540

keep eyes for over a year and I really

448

00:25:47,570 --> 00:25:43,420

enjoyed the experience great commander

449

00:25:50,100 --> 00:25:47,580

and a great bird engineer and I have

450

00:25:51,690 --> 00:25:50,110

some emotional thoughts about saying

451
00:25:53,970 --> 00:25:51,700
goodbye to them but I know they'll be

452
00:25:58,290 --> 00:25:53,980
just an absolutely great job up here

453
00:26:02,130 --> 00:25:58,300
until their landing at this soft landing

454
00:26:05,520 --> 00:26:02,140
the octopus vodka in August and I wish

455
00:26:12,140 --> 00:26:05,530
them a lot of luck and success notice

456
00:26:12,150 --> 00:26:15,110
you

457
00:26:19,980 --> 00:26:17,639
then it's only I don't know how to say

458
00:26:23,490 --> 00:26:19,990
this in Russian but we wish you fair

459
00:26:26,249 --> 00:26:23,500
winds and following seas and soft

460
00:26:28,200 --> 00:26:26,259
landings we will count the days until

461
00:26:37,289 --> 00:26:28,210
you come back and we get to see you

462
00:26:52,560 --> 00:26:43,979
I hope we meet in moscow in august with

463
00:26:55,379 --> 00:26:52,570

our very cool and i think it was a very

464

00:27:01,379 --> 00:26:55,389

good ship on the space station were on

465

00:27:07,139 --> 00:27:01,389

the atlantis and in sunday your medial

466

00:27:12,659 --> 00:27:07,149

formula it to go away a good time for

467

00:27:21,349 --> 00:27:12,669

you and I think in Tomas will threaten

468

00:27:26,039 --> 00:27:21,359

our family too and i want to set to

469

00:27:39,950 --> 00:27:26,049

control mission in lewiston for his very

470

00:27:46,049 --> 00:27:43,859

eastern new interest i guess we are

471

00:27:48,960 --> 00:27:46,059

about to the end of our farewell

472

00:27:54,269 --> 00:27:48,970

ceremony I want to acknowledge once

473

00:27:58,200 --> 00:27:54,279

again drop castle till angle house obey

474

00:27:59,970 --> 00:27:58,210

all of our cap comes all the folks on

475

00:28:01,529 --> 00:27:59,980

the ground it has done a spectacular job

476

00:28:04,590 --> 00:28:01,539

of putting together this very

477

00:28:06,749 --> 00:28:04,600

challenging mission we've reached

478

00:28:08,879 --> 00:28:06,759

another milestone in that mission but as

479

00:28:10,769 --> 00:28:08,889

I mentioned earlier it's just one of the

480

00:28:14,430 --> 00:28:10,779

small milestones along a much greater

481

00:28:18,119 --> 00:28:14,440

journey but at least we have begun that

482

00:28:20,789 --> 00:28:18,129

whole long journey thanks sorry thank

483

00:28:22,739 --> 00:28:20,799

you very much sir it's been an

484

00:28:26,399 --> 00:28:22,749

incredibly memorable event for you all

485

00:28:29,009 --> 00:28:26,409

for us controllers down here it is a

486

00:28:31,169 --> 00:28:29,019

memorable event for us too it is a major

487

00:28:33,659 --> 00:28:31,179

part in our lives working with you all

488

00:28:37,019 --> 00:28:33,669

is something that we will not forget and

489

00:28:40,200 --> 00:28:37,029

as you said who very appropriately yes

490

00:28:43,560 --> 00:28:40,210

it is a farewell but is also a very

491

00:28:44,460 --> 00:28:43,570

important beginning you all have started

492

00:28:47,720 --> 00:28:44,470

us out

493

00:28:50,399 --> 00:28:47,730

on an unbelievably great beginning

494

00:28:53,990 --> 00:28:50,409

cooperation in which the humans of

495

00:28:56,549 --> 00:28:54,000

planet Earth together pursue the heavens

496

00:28:58,740 --> 00:28:56,559

thank you very much for being who you

497

00:29:07,260 --> 00:28:58,750

are and for the fabulous job that you've

498

00:29:09,029 --> 00:29:07,270

done on this flight and the same words