



1  
00:00:06,789 --> 00:00:03,270  
station this is houston are you ready

2  
00:00:10,230 --> 00:00:07,990  
houston station we're ready for the

3  
00:00:13,669 --> 00:00:10,240  
event

4  
00:00:17,910 --> 00:00:13,679  
kprc tv this is mission control houston

5  
00:00:20,710 --> 00:00:17,920  
please call station for a voice check

6  
00:00:24,390 --> 00:00:20,720  
station this is kprc tv how do you hear

7  
00:00:29,509 --> 00:00:26,470  
kprc this is station i've got you loud

8  
00:00:33,190 --> 00:00:31,429  
that's great mr burbank thank you for

9  
00:00:36,310 --> 00:00:33,200  
your time it's a pleasure to speak with

10  
00:00:38,310 --> 00:00:36,320  
you uh can you start with an overview of

11  
00:00:45,270 --> 00:00:38,320  
the mission here and anything of any

12  
00:00:48,950 --> 00:00:47,110  
okay absolutely lauren first off it's

13  
00:00:51,910 --> 00:00:48,960

great to have you on board um we have

14  
00:00:53,990 --> 00:00:51,920  
been here myself um anton shkaplerov and

15  
00:00:56,950 --> 00:00:54,000  
anatoly even nation my two russian

16  
00:00:59,430 --> 00:00:56,960  
cosmonauts for just about four weeks now

17  
00:01:01,510 --> 00:00:59,440  
i guess today i guess

18  
00:01:03,990 --> 00:01:01,520  
and uh and it's been very very busy

19  
00:01:06,070 --> 00:01:04,000  
space station is designed and intended

20  
00:01:08,070 --> 00:01:06,080  
at this stage for a crew of six so we've

21  
00:01:10,070 --> 00:01:08,080  
been in half strength for quite a while

22  
00:01:11,750 --> 00:01:10,080  
and for us it's been a very busy time

23  
00:01:14,070 --> 00:01:11,760  
but obviously a very wonderful

24  
00:01:16,630 --> 00:01:14,080  
experience just the same our primary

25  
00:01:19,109 --> 00:01:16,640  
focus so far at least in the first week

26  
00:01:20,630 --> 00:01:19,119  
was to hand over with the previous crew

27  
00:01:23,030 --> 00:01:20,640  
and to learn as much as we could about

28  
00:01:24,870 --> 00:01:23,040  
life on board space station ordinarily

29  
00:01:27,510 --> 00:01:24,880  
the handover period is between two and

30  
00:01:29,350 --> 00:01:27,520  
four months we gotta jump on it before

31  
00:01:31,990 --> 00:01:29,360  
launch and and did some of that via

32  
00:01:33,910 --> 00:01:32,000  
video and uh and teleconferencing and

33  
00:01:36,870 --> 00:01:33,920  
every other way you could imagine emails

34  
00:01:39,109 --> 00:01:36,880  
and and the rest and uh then once we got

35  
00:01:40,870 --> 00:01:39,119  
on board we had a whirlwind week or so

36  
00:01:42,789 --> 00:01:40,880  
with them and

37  
00:01:44,469 --> 00:01:42,799  
basically put our hands on hardware

38  
00:01:46,310 --> 00:01:44,479

watched over their shoulder as they did

39

00:01:48,550 --> 00:01:46,320

all the things they do to keep this

40

00:01:50,950 --> 00:01:48,560

great space station working and

41

00:01:52,550 --> 00:01:50,960

and tried to learn as much as we could

42

00:01:54,469 --> 00:01:52,560

and since then

43

00:01:55,910 --> 00:01:54,479

we have on a fairly regular basis called

44

00:01:59,270 --> 00:01:55,920

them to ask them questions when things

45

00:02:03,590 --> 00:02:01,109

mr burbank what will it be like with

46

00:02:05,109 --> 00:02:03,600

that six-person crew once you get it are

47

00:02:10,790 --> 00:02:05,119

you looking forward to having that

48

00:02:13,589 --> 00:02:12,150

well lauren first off they're good

49

00:02:14,869 --> 00:02:13,599

friends so it'll be great to have them

50

00:02:17,110 --> 00:02:14,879

on board they're actually going to come

51  
00:02:18,309 --> 00:02:17,120  
here just before the christmas holidays

52  
00:02:20,070 --> 00:02:18,319  
so we're going to have them here in time

53  
00:02:22,390 --> 00:02:20,080  
for christmas and new year's

54  
00:02:24,630 --> 00:02:22,400  
and got a few things planned for that

55  
00:02:27,270 --> 00:02:24,640  
um but from the work side of things

56  
00:02:29,830 --> 00:02:27,280  
it'll also be just wonderful to have

57  
00:02:31,190 --> 00:02:29,840  
their brain power and their horsepower

58  
00:02:32,710 --> 00:02:31,200  
to help us do the things that we do to

59  
00:02:35,030 --> 00:02:32,720  
keep space station working to keep the

60  
00:02:38,229 --> 00:02:35,040  
research going um

61  
00:02:41,110 --> 00:02:38,239  
it's uh it's been a very busy like i say

62  
00:02:43,430 --> 00:02:41,120  
four weeks and as soon as we get them on

63  
00:02:44,949 --> 00:02:43,440

board it's going to be almost busier i

64

00:02:46,949 --> 00:02:44,959

think because there's so many things we

65

00:02:49,030 --> 00:02:46,959

have on our plate between the time they

66

00:02:50,550 --> 00:02:49,040

arrive in the time that at least the

67

00:02:55,190 --> 00:02:50,560

three of us our crew are going to be

68

00:03:00,550 --> 00:02:58,070

mr burbank we know the russians are

69

00:03:02,550 --> 00:03:00,560

instrumental now getting you folks up

70

00:03:04,309 --> 00:03:02,560

and down to space but then i hear about

71

00:03:06,470 --> 00:03:04,319

the chinese on their way to building

72

00:03:09,430 --> 00:03:06,480

their own space station are we sort of

73

00:03:11,030 --> 00:03:09,440

in a a new space race do we celebrate

74

00:03:16,790 --> 00:03:11,040

these achievements

75

00:03:21,990 --> 00:03:19,430

well my my feeling on this is that i

76  
00:03:23,509 --> 00:03:22,000  
think humanity belongs in space i think

77  
00:03:25,030 --> 00:03:23,519  
the more people that can do this the

78  
00:03:27,830 --> 00:03:25,040  
more countries that can do this the

79  
00:03:30,229 --> 00:03:27,840  
better off we are as as human beings

80  
00:03:32,789 --> 00:03:30,239  
i think right now

81  
00:03:34,869 --> 00:03:32,799  
if we were to approach this next phase

82  
00:03:36,949 --> 00:03:34,879  
for example with the chinese um as a

83  
00:03:38,390 --> 00:03:36,959  
space race race as we did during the

84  
00:03:39,990 --> 00:03:38,400  
cold war years

85  
00:03:42,630 --> 00:03:40,000  
in the apollo program i don't think

86  
00:03:45,030 --> 00:03:42,640  
necessarily that's the wise thing to do

87  
00:03:47,509 --> 00:03:45,040  
those kinds of things

88  
00:03:49,910 --> 00:03:47,519

will do a lot to light a fire and get us

89

00:03:50,630 --> 00:03:49,920

motivated for get anybody motivated to

90

00:03:52,869 --> 00:03:50,640

do

91

00:03:54,869 --> 00:03:52,879

something big perhaps but it may not be

92

00:03:56,869 --> 00:03:54,879

the impetus we need to

93

00:03:59,110 --> 00:03:56,879

be in space and stay here for the long

94

00:04:00,470 --> 00:03:59,120

term which i think is really our goal so

95

00:04:02,229 --> 00:04:00,480

what we're doing international space

96

00:04:05,190 --> 00:04:02,239

station is a much more cooperative

97

00:04:07,509 --> 00:04:05,200

endeavor and we've got 15 nations that

98

00:04:09,110 --> 00:04:07,519

are all working on this together and

99

00:04:11,110 --> 00:04:09,120

international space station's been going

100

00:04:13,670 --> 00:04:11,120

since 1998 we've had a crew on board

101  
00:04:15,910 --> 00:04:13,680  
since 2000 it's going to be populated

102  
00:04:18,229 --> 00:04:15,920  
and doing research by that same

103  
00:04:20,069 --> 00:04:18,239  
complement of international uh partners

104  
00:04:21,990 --> 00:04:20,079  
all the way out till 2020 and i believe

105  
00:04:23,510 --> 00:04:22,000  
beyond that that's the kind of thing

106  
00:04:27,590 --> 00:04:23,520  
that'll give us a long-term space

107  
00:04:32,070 --> 00:04:29,909  
so mr burbank anything particular that

108  
00:04:33,830 --> 00:04:32,080  
uh that you would like to see from nasa

109  
00:04:35,430 --> 00:04:33,840  
for the future of space exploration

110  
00:04:37,510 --> 00:04:35,440  
obviously the shuttles are gone now and

111  
00:04:43,270 --> 00:04:37,520  
i think all of us here are wondering hey

112  
00:04:46,469 --> 00:04:45,030  
no i i think all of us that flew on the

113  
00:04:48,950 --> 00:04:46,479

space shuttle and all of us that worked

114

00:04:50,790 --> 00:04:48,960

in that program um

115

00:04:52,550 --> 00:04:50,800

felt a tinge of regret when the shuttles

116

00:04:53,749 --> 00:04:52,560

were retired but the fact is that the

117

00:04:55,749 --> 00:04:53,759

shuttle did

118

00:04:57,350 --> 00:04:55,759

the thing that it was exquisitely well

119

00:04:59,270 --> 00:04:57,360

designed to do and that was to build the

120

00:05:00,870 --> 00:04:59,280

international space station but the

121

00:05:02,710 --> 00:05:00,880

space shuttle is not the kind of vehicle

122

00:05:04,629 --> 00:05:02,720

if you want to leave low earth orbit and

123

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

that's what i think our next goal should

124

00:05:07,990 --> 00:05:06,560

be so the kinds of research we're doing

125

00:05:09,990 --> 00:05:08,000

on space station will answer the

126

00:05:11,749 --> 00:05:10,000

questions about how to keep humans

127

00:05:13,830 --> 00:05:11,759

healthy and productive in space long

128

00:05:15,990 --> 00:05:13,840

enough to go back to the moon to stay

129

00:05:17,350 --> 00:05:16,000

and on to mars and asteroids those are

130

00:05:19,830 --> 00:05:17,360

the kinds of things that's where i think

131

00:05:22,150 --> 00:05:19,840

our destiny is so i think nasa's job

132

00:05:24,310 --> 00:05:22,160

right now is to put in place and to

133

00:05:26,310 --> 00:05:24,320

develop the kinds of capability that'll

134

00:05:27,830 --> 00:05:26,320

get you beyond low earth orbit we need

135

00:05:30,070 --> 00:05:27,840

to continue to do the research that'll

136

00:05:31,909 --> 00:05:30,080

support that on space station but i

137

00:05:33,909 --> 00:05:31,919

think the piece that that includes

138

00:05:36,070 --> 00:05:33,919

coming from the surface of planet earth

139

00:05:38,550 --> 00:05:36,080

to low earth orbit i think it's very

140

00:05:40,629 --> 00:05:38,560

appropriate to now have commercial

141

00:05:43,350 --> 00:05:40,639

companies be able to take the ball and

142

00:05:44,950 --> 00:05:43,360

run with that and let nasa do the next

143

00:05:46,230 --> 00:05:44,960

most difficult thing which is leaving

144

00:05:49,590 --> 00:05:46,240

low earth orbit i think that's

145

00:05:53,830 --> 00:05:51,110

i'd like to take this story on a

146

00:05:55,749 --> 00:05:53,840

different angle literally our morning

147

00:05:57,990 --> 00:05:55,759

meteorologist anthony honest loves to

148

00:05:59,909 --> 00:05:58,000

show some of the nasa pictures of the

149

00:06:01,990 --> 00:05:59,919

day i mean you guys have seen dust

150

00:06:04,469 --> 00:06:02,000

plumes storms volcanoes but there was

151  
00:06:06,629 --> 00:06:04,479  
one in particular of antarctica that was

152  
00:06:08,710 --> 00:06:06,639  
taken in early october which

153  
00:06:09,670 --> 00:06:08,720  
it looked as if the space station you

154  
00:06:11,350 --> 00:06:09,680  
could have been standing on a

155  
00:06:13,670 --> 00:06:11,360  
mountaintop across the way it was a

156  
00:06:15,670 --> 00:06:13,680  
fascinating view what has that been like

157  
00:06:20,309 --> 00:06:15,680  
and does that antarctica picture ring a

158  
00:06:24,870 --> 00:06:21,830  
since we've been here

159  
00:06:26,790 --> 00:06:24,880  
i think we've sent down about 4 500

160  
00:06:28,950 --> 00:06:26,800  
images and and i think i know the one

161  
00:06:30,870 --> 00:06:28,960  
that you're talking about but i think

162  
00:06:32,390 --> 00:06:30,880  
what i would say is that

163  
00:06:34,469 --> 00:06:32,400

we're probably i'm probably not to the

164

00:06:35,749 --> 00:06:34,479

level that i need to be to be able to do

165

00:06:38,150 --> 00:06:35,759

it justice when it comes to earth

166

00:06:39,749 --> 00:06:38,160

photography from from low earth orbit

167

00:06:41,350 --> 00:06:39,759

every time that you float down to the

168

00:06:43,510 --> 00:06:41,360

cupola every time that you go to a

169

00:06:45,990 --> 00:06:43,520

window be it in the u.s laboratory or in

170

00:06:47,590 --> 00:06:46,000

the russian segment the service module

171

00:06:49,350 --> 00:06:47,600

you are surprised and your breath's

172

00:06:52,150 --> 00:06:49,360

taken away by something that's going by

173

00:06:53,830 --> 00:06:52,160

beneath you and i think the trick is for

174

00:06:55,670 --> 00:06:53,840

us who are crew members who are pilots

175

00:06:57,189 --> 00:06:55,680

and engineers typically or scientists by

176

00:06:59,110 --> 00:06:57,199

trade is to become good enough

177

00:07:01,110 --> 00:06:59,120

photographers to be able to capture

178

00:07:03,430 --> 00:07:01,120

those images in such a way that it

179

00:07:05,270 --> 00:07:03,440

really tells a story for people on on

180

00:07:06,629 --> 00:07:05,280

the ground i mean it is unbelievable

181

00:07:07,990 --> 00:07:06,639

whether it is

182

00:07:10,469 --> 00:07:08,000

flying over the north atlantic and

183

00:07:12,309 --> 00:07:10,479

watching the northern lights uh dancing

184

00:07:14,870 --> 00:07:12,319

around in fact around the vehicle

185

00:07:16,950 --> 00:07:14,880

sometimes or watching the swiss alps

186

00:07:19,589 --> 00:07:16,960

come beneath you there's been some

187

00:07:22,390 --> 00:07:19,599

unbelievable views lately of going over

188

00:07:24,790 --> 00:07:22,400

southern chile and tierra del fuego

189

00:07:27,189 --> 00:07:24,800

all of those things will just are just

190

00:07:28,629 --> 00:07:27,199

spectacular africa can't say enough

191

00:07:31,029 --> 00:07:28,639

about that

192

00:07:32,469 --> 00:07:31,039

and and i think you're going to continue

193

00:07:33,990 --> 00:07:32,479

to see better and better shots and at

194

00:07:35,909 --> 00:07:34,000

least for me i hope they'll continue to

195

00:07:38,390 --> 00:07:35,919

be better but it's a wonderful place and

196

00:07:39,749 --> 00:07:38,400

it's a wonderful uh planet that we get

197

00:07:43,589 --> 00:07:39,759

that we're fortunate enough to be able

198

00:07:48,309 --> 00:07:46,230

well they are uh incredibly captivating

199

00:07:50,710 --> 00:07:48,319

i know for for us on earth we have just

200

00:07:52,550 --> 00:07:50,720

a couple of minutes left sir i guess

201  
00:07:53,990 --> 00:07:52,560  
i know you have some of the other crew

202  
00:07:56,070 --> 00:07:54,000  
members coming up right before the

203  
00:07:58,629 --> 00:07:56,080  
holidays so you've got some more friends

204  
00:08:04,230 --> 00:07:58,639  
there with you what is it like being so

205  
00:08:08,070 --> 00:08:06,629  
i i think when the crews were flying

206  
00:08:09,430 --> 00:08:08,080  
aboard the mere space station for

207  
00:08:11,110 --> 00:08:09,440  
example or when the crews were flying

208  
00:08:12,629 --> 00:08:11,120  
aboard international space station in

209  
00:08:14,710 --> 00:08:12,639  
the earlier days

210  
00:08:17,670 --> 00:08:14,720  
you were in fact physically far away

211  
00:08:20,070 --> 00:08:17,680  
from home and sometimes you felt far

212  
00:08:21,510 --> 00:08:20,080  
removed from from friends and family

213  
00:08:23,670 --> 00:08:21,520

onboard international space station

214

00:08:25,350 --> 00:08:23,680

right now it's not like that in a very

215

00:08:27,350 --> 00:08:25,360

real sense we're

216

00:08:29,189 --> 00:08:27,360

very close to the people that are

217

00:08:30,950 --> 00:08:29,199

watching over space station we're very

218

00:08:33,190 --> 00:08:30,960

close to our families and friends i'm

219

00:08:35,670 --> 00:08:33,200

actually able to call my family and see

220

00:08:37,990 --> 00:08:35,680

them and talk to them more often now on

221

00:08:40,310 --> 00:08:38,000

board space station than i could in

222

00:08:41,750 --> 00:08:40,320

often in the in the two years or so

223

00:08:43,430 --> 00:08:41,760

leading up to flight when we would be

224

00:08:45,110 --> 00:08:43,440

traveling overseas and communication

225

00:08:48,310 --> 00:08:45,120

would be more difficult so

226

00:08:50,470 --> 00:08:48,320

in a virtual sense we're much closer

227

00:08:53,110 --> 00:08:50,480

than we then has at least been in the

228

00:08:55,269 --> 00:08:53,120

past so so that part is i think really

229

00:08:57,110 --> 00:08:55,279

important it doesn't mean that when it's

230

00:08:59,269 --> 00:08:57,120

time to come home and i get to see my

231

00:09:01,269 --> 00:08:59,279

family again for the first time after

232

00:09:01,990 --> 00:09:01,279

you know five months or so that it won't

233

00:09:07,350 --> 00:09:02,000

be

234

00:09:11,590 --> 00:09:09,350

yeah that uh that reunion we can only

235

00:09:12,870 --> 00:09:11,600

imagine imagine mr burbank thank you for

236

00:09:14,470 --> 00:09:12,880

your time thanks for spending these

237

00:09:19,110 --> 00:09:14,480

moments with us good luck on the mission

238

00:09:22,389 --> 00:09:20,790

lauren thanks so much thanks for joining

239

00:09:26,389 --> 00:09:22,399

us here was great talking with you and i

240

00:09:32,230 --> 00:09:28,470

station this is houston acr that

241

00:09:36,310 --> 00:09:33,910

thank you thank you

242

00:09:38,550 --> 00:09:36,320

thank you kprct