



1  
00:00:08,070 --> 00:00:04,470  
atlantis iss this is houston are you

2  
00:00:13,030 --> 00:00:10,549  
we're ready for the event

3  
00:00:15,270 --> 00:00:13,040  
jscpao this is mission control houston

4  
00:00:18,710 --> 00:00:15,280  
please call atlantis iss for a voice

5  
00:00:25,910 --> 00:00:20,950  
atlantis iss this is johnson space

6  
00:00:28,710 --> 00:00:27,750  
hello johnson base center we have you

7  
00:00:35,990 --> 00:00:28,720  
loud and clear on the international

8  
00:00:39,350 --> 00:00:37,590  
good morning this is eric berger with

9  
00:00:41,830 --> 00:00:39,360  
houston chronicle congratulations on

10  
00:00:43,350 --> 00:00:41,840  
such a great mission so far

11  
00:00:45,670 --> 00:00:43,360  
there's been a lot of talk

12  
00:00:46,869 --> 00:00:45,680  
about first or excuse me last during

13  
00:00:48,950 --> 00:00:46,879

this flood and i want to ask about it

14

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

first specifically

15

00:00:52,790 --> 00:00:50,800

do any of the crew members of atlantis

16

00:00:55,189 --> 00:00:52,800

plan to stick around with nasa to fly in

17

00:01:06,310 --> 00:00:55,199

the mpcv or is that something that is a

18

00:01:10,070 --> 00:01:08,230

well i think if you asked any one of us

19

00:01:11,270 --> 00:01:10,080

we would love a shot at flying another

20

00:01:13,750 --> 00:01:11,280

vehicle so

21

00:01:15,429 --> 00:01:13,760

definitely um you know and we've got

22

00:01:17,749 --> 00:01:15,439

opportunities prior to that you know

23

00:01:19,910 --> 00:01:17,759

we've got uh multiple flights to the

24

00:01:21,830 --> 00:01:19,920

international space station uh you know

25

00:01:23,910 --> 00:01:21,840

we we're gonna crew this

26

00:01:25,830 --> 00:01:23,920

beautiful complex for the next uh 10

27

00:01:27,749 --> 00:01:25,840

years plus so there's plenty of

28

00:01:30,069 --> 00:01:27,759

opportunities to fly and

29

00:01:31,429 --> 00:01:30,079

i don't see any reason why not stay and

30

00:01:34,789 --> 00:01:31,439

see what happens it's a real bright

31

00:01:38,550 --> 00:01:36,710

good morning ted oberg from channel 13

32

00:01:41,910 --> 00:01:38,560

here in houston great to talk with you

33

00:01:43,830 --> 00:01:41,920

guys i'm i'm curious um

34

00:01:46,069 --> 00:01:43,840

what have you done in your downtime on

35

00:01:48,630 --> 00:01:46,079

this mission uh to make sure that you

36

00:01:50,389 --> 00:01:48,640

capture some of these last moments what

37

00:01:53,109 --> 00:01:50,399

what things have you made sure you saw

38

00:01:54,230 --> 00:01:53,119

out the windows or done with the shuttle

39

00:02:02,389 --> 00:01:54,240

tell us a little bit about how you've

40

00:02:06,149 --> 00:02:03,590

well for me

41

00:02:07,749 --> 00:02:06,159

i i had a chance to look out the

42

00:02:09,669 --> 00:02:07,759

without the cupola where it's a great

43

00:02:11,110 --> 00:02:09,679

window and we can see the aurora

44

00:02:12,390 --> 00:02:11,120

australis the southern lights we all

45

00:02:14,949 --> 00:02:12,400

kind of crowded around and got to see

46

00:02:16,309 --> 00:02:14,959

that and just savoring every minute of

47

00:02:18,710 --> 00:02:16,319

floating in space and then once in a

48

00:02:19,750 --> 00:02:18,720

while when you're on atlantis uh when at

49

00:02:21,030 --> 00:02:19,760

the end of the day you kind of look

50

00:02:23,350 --> 00:02:21,040

around the mid deck and think of all the

51  
00:02:24,710 --> 00:02:23,360  
guys and women who were there before you

52  
00:02:25,990 --> 00:02:24,720  
and who had a

53  
00:02:27,510 --> 00:02:26,000  
had a part in the space program and you

54  
00:02:29,270 --> 00:02:27,520  
think wow this is this is the last

55  
00:02:31,350 --> 00:02:29,280  
flight so it does cross your mind once

56  
00:02:32,710 --> 00:02:31,360  
in a while

57  
00:02:35,509 --> 00:02:32,720  
good morning this is john donald with

58  
00:02:37,030 --> 00:02:35,519  
fox 26 here in houston also and i'm

59  
00:02:39,110 --> 00:02:37,040  
passing along a question from one of our

60  
00:02:40,710 --> 00:02:39,120  
viewers she wants to know

61  
00:02:42,470 --> 00:02:40,720  
what would the astronauts be able to

62  
00:02:51,350 --> 00:02:42,480  
take from the last trip and will you

63  
00:02:55,509 --> 00:02:53,990

oh absolutely uh you know johnson space

64

00:02:56,949 --> 00:02:55,519

center although we're reaching the end

65

00:02:59,030 --> 00:02:56,959

of the space shuttle program is still a

66

00:03:01,190 --> 00:02:59,040

vibrant place to work uh there'll be a

67

00:03:02,790 --> 00:03:01,200

transitional period here as we hand over

68

00:03:04,229 --> 00:03:02,800

a lot of the responsibilities for going

69

00:03:06,630 --> 00:03:04,239

to earth orbit to our commercial

70

00:03:09,110 --> 00:03:06,640

providers but uh this is an opportunity

71

00:03:11,750 --> 00:03:09,120

for us to look beyond low earth orbit

72

00:03:13,670 --> 00:03:11,760

and uh perhaps back to the moon or to an

73

00:03:15,030 --> 00:03:13,680

asteroid where we'd like to travel too

74

00:03:19,110 --> 00:03:15,040

soon so there'll be plenty of work in

75

00:03:25,030 --> 00:03:21,910

uh good morning mark caro from aviation

76  
00:03:27,190 --> 00:03:25,040  
week and my questions for uh sandy could

77  
00:03:29,670 --> 00:03:27,200  
could you describe for us the the pace

78  
00:03:31,670 --> 00:03:29,680  
of the activities uh the past week and

79  
00:03:36,949 --> 00:03:31,680  
just what it will take to wrap up the

80  
00:03:42,869 --> 00:03:39,990  
well mark the pace has been very very

81  
00:03:45,190 --> 00:03:42,879  
uh busy busy busy uh just right when we

82  
00:03:46,789 --> 00:03:45,200  
hit orbit doing post insertion with four

83  
00:03:49,110 --> 00:03:46,799  
people was really challenging we were

84  
00:03:50,789 --> 00:03:49,120  
working really hard right up to bedtime

85  
00:03:52,710 --> 00:03:50,799  
we got had a little bit on flight day

86  
00:03:55,110 --> 00:03:52,720  
two but since we docked a station we've

87  
00:03:56,869 --> 00:03:55,120  
been working uh quite a bit i think

88  
00:03:58,309 --> 00:03:56,879

we're getting ahead now so hopefully the

89

00:03:59,750 --> 00:03:58,319

rest of the pace of the mission will

90

00:04:01,190 --> 00:03:59,760

slow down a bit and we can actually

91

00:04:04,710 --> 00:04:01,200

savor the moment a little bit more than

92

00:04:08,470 --> 00:04:06,390

hi morning this is denise ciao at

93

00:04:09,990 --> 00:04:08,480

space.com my questions for commander

94

00:04:11,670 --> 00:04:10,000

chris ferguson

95

00:04:13,670 --> 00:04:11,680

having the opportunity to fly in space

96

00:04:15,190 --> 00:04:13,680

and spend time on the iss you and your

97

00:04:18,069 --> 00:04:15,200

crewmates have a unique perspective of

98

00:04:19,749 --> 00:04:18,079

our planet and for those of us on on

99

00:04:21,110 --> 00:04:19,759

earth i was wondering what message you

100

00:04:23,510 --> 00:04:21,120

would have for why it's important to

101  
00:04:28,550 --> 00:04:23,520  
continue exploration particularly manned

102  
00:04:32,550 --> 00:04:30,469  
yeah well i'll tell you first of all uh

103  
00:04:34,469 --> 00:04:32,560  
you really don't get a firm appreciation

104  
00:04:36,070 --> 00:04:34,479  
for just what a fantastic place it is

105  
00:04:37,990 --> 00:04:36,080  
until you've had an opportunity to look

106  
00:04:39,990 --> 00:04:38,000  
out of the cupola just over the last

107  
00:04:42,150 --> 00:04:40,000  
couple nights uh we've had some

108  
00:04:44,550 --> 00:04:42,160  
incredibly dramatic passes that have uh

109  
00:04:48,310 --> 00:04:44,560  
that showed the the southern lights uh

110  
00:04:49,990 --> 00:04:48,320  
just a vibrant green color um and

111  
00:04:51,830 --> 00:04:50,000  
there was a tremendous picture taken

112  
00:04:53,749 --> 00:04:51,840  
last night with the silhouette of the

113  
00:04:55,510 --> 00:04:53,759

international space station and the

114

00:04:57,030 --> 00:04:55,520

space shuttle in the background and

115

00:04:59,830 --> 00:04:57,040

there is uh i'll tell you there's a

116

00:05:01,430 --> 00:04:59,840

little part of uh everybody who looks at

117

00:05:03,110 --> 00:05:01,440

something like that and says i cannot

118

00:05:05,430 --> 00:05:03,120

believe we're here this is absolutely

119

00:05:07,430 --> 00:05:05,440

fantastic we absolutely must continue

120

00:05:09,749 --> 00:05:07,440

this and we must go beyond and we must

121

00:05:12,310 --> 00:05:09,759

go back to lunar orbit and perhaps to an

122

00:05:14,710 --> 00:05:12,320

asteroid we need to continue pushing on

123

00:05:16,469 --> 00:05:14,720

we need to press technology and you know

124

00:05:20,390 --> 00:05:16,479

humans are destined to explore and this

125

00:05:23,189 --> 00:05:20,400

is what we do and we need to continue

126

00:05:25,350 --> 00:05:23,199

gina cincer abc news for mike fossum

127

00:05:27,430 --> 00:05:25,360

mike we thought we heard you trying to

128

00:05:29,830 --> 00:05:27,440

whistle before your space walk on

129

00:05:31,590 --> 00:05:29,840

tuesday tell me a little bit about that

130

00:05:32,950 --> 00:05:31,600

and why you couldn't whistle and then

131

00:05:39,670 --> 00:05:32,960

when you're done i'd like you to whistle

132

00:05:42,870 --> 00:05:40,950

i'll pass the second half of your

133

00:05:44,310 --> 00:05:42,880

question to my spacewalk buddy ron

134

00:05:46,550 --> 00:05:44,320

guerin

135

00:05:48,070 --> 00:05:46,560

uh we ron and i were both doing a little

136

00:05:50,390 --> 00:05:48,080

whistling in the airlock it's just one

137

00:05:52,230 --> 00:05:50,400

of the strange phenomena where as the

138

00:05:53,430 --> 00:05:52,240

pressure is dropping in the airlock our

139

00:05:55,029 --> 00:05:53,440

suit is just

140

00:05:57,189 --> 00:05:55,039

you know a little over four pounds of

141

00:05:59,270 --> 00:05:57,199

pressure and once this air pressure

142

00:06:00,870 --> 00:05:59,280

inside the airlock goes down close or

143

00:06:02,550 --> 00:06:00,880

goes down to zero

144

00:06:04,070 --> 00:06:02,560

then your overall pressure is down low

145

00:06:05,749 --> 00:06:04,080

and i think it has to do with the air

146

00:06:07,270 --> 00:06:05,759

the density of the air but i really

147

00:06:10,070 --> 00:06:07,280

can't explain uh

148

00:06:13,110 --> 00:06:10,080

a a lot about the uh probably the the

149

00:06:14,950 --> 00:06:13,120

the resonant frequency of the

150

00:06:17,270 --> 00:06:14,960

or the cavity of your mouth as you're

151  
00:06:19,110 --> 00:06:17,280  
blowing the air through it like that and

152  
00:06:22,309 --> 00:06:19,120  
so it's kind of interesting

153  
00:06:24,950 --> 00:06:22,319  
nobody and we can all whistle

154  
00:06:26,070 --> 00:06:24,960  
uh you know a normal ronald do the tune

155  
00:06:27,990 --> 00:06:26,080  
uh but

156  
00:06:29,990 --> 00:06:28,000  
as it's one of the things that you can

157  
00:06:32,070 --> 00:06:30,000  
physically

158  
00:06:33,830 --> 00:06:32,080  
use to just take a look and appreciate

159  
00:06:35,510 --> 00:06:33,840  
the fact that that things are changing

160  
00:06:37,990 --> 00:06:35,520  
you can feel the air that you're

161  
00:06:39,830 --> 00:06:38,000  
breathing in is different it's a lower

162  
00:06:41,990 --> 00:06:39,840  
density and you can tell that we have a

163  
00:06:44,309 --> 00:06:42,000

card of kind of a procedure card in the

164

00:06:46,629 --> 00:06:44,319

airlock and you can wave that back and

165

00:06:48,629 --> 00:06:46,639

forth and as you do you can feel less

166

00:06:50,070 --> 00:06:48,639

resistance on it

167

00:06:51,670 --> 00:06:50,080

as the air pressure is dropping the

168

00:06:53,029 --> 00:06:51,680

whistling is just something else to have

169

00:06:57,670 --> 00:06:53,039

a little fun with when you try not to

170

00:06:57,680 --> 00:07:05,510

now ron's got a whistle

171

00:07:09,990 --> 00:07:07,510

this is jill tolk representing bay area

172

00:07:12,550 --> 00:07:10,000

houston magazine a two-part question for

173

00:07:14,309 --> 00:07:12,560

fergie and ron since each of you has

174

00:07:15,990 --> 00:07:14,319

connections to pennsylvania what

175

00:07:17,510 --> 00:07:16,000

personal earth orbs of that state have

176

00:07:19,670 --> 00:07:17,520

each of you made during your respective

177

00:07:20,950 --> 00:07:19,680

flights and fergie have you seen the

178

00:07:27,510 --> 00:07:20,960

east coast of australia through the

179

00:07:32,150 --> 00:07:29,830

oh gosh jill first of all how are you

180

00:07:34,230 --> 00:07:32,160

doing um you know i wish we had enough

181

00:07:35,990 --> 00:07:34,240

time to look out the window we did catch

182

00:07:37,909 --> 00:07:36,000

a little look at philadelphia the

183

00:07:40,230 --> 00:07:37,919

philadelphia new york i'm sorry yeah the

184

00:07:41,749 --> 00:07:40,240

philadelphia new york area we passed

185

00:07:43,189 --> 00:07:41,759

over there i think it was the evening of

186

00:07:44,550 --> 00:07:43,199

flight day two and we had a chance to

187

00:07:46,390 --> 00:07:44,560

look out

188

00:07:48,390 --> 00:07:46,400

and have we passed off the east coast of

189

00:07:49,830 --> 00:07:48,400

australia yes absolutely we have and i

190

00:07:51,029 --> 00:07:49,840

think that's one of the opportunities we

191

00:07:52,309 --> 00:07:51,039

have to take a look at the southern

192

00:07:54,230 --> 00:07:52,319

lights but i really didn't have an

193

00:07:56,070 --> 00:07:54,240

opportunity to do a whole lot of

194

00:07:57,670 --> 00:07:56,080

coastal searching if you will to find

195

00:08:01,589 --> 00:07:57,680

out exactly where we were and i'll turn

196

00:08:04,950 --> 00:08:02,790

well um

197

00:08:06,869 --> 00:08:04,960

sasha and andre and i have been here 101

198

00:08:08,710 --> 00:08:06,879

days today but who's counting and so

199

00:08:10,309 --> 00:08:08,720

we've uh we've had

200

00:08:11,990 --> 00:08:10,319

a lot of opportunities to look out the

201  
00:08:13,749 --> 00:08:12,000  
window a lot of opportunities to see our

202  
00:08:15,909 --> 00:08:13,759  
unbelievably beautiful earth

203  
00:08:17,589 --> 00:08:15,919  
and yes i've

204  
00:08:19,430 --> 00:08:17,599  
had the opportunity to see pennsylvania

205  
00:08:20,950 --> 00:08:19,440  
have taken some pictures of

206  
00:08:22,469 --> 00:08:20,960  
one of my favorite places in the world

207  
00:08:24,550 --> 00:08:22,479  
where i spent the happiest day of my

208  
00:08:28,230 --> 00:08:24,560  
life over 20 years ago getting married

209  
00:08:30,070 --> 00:08:28,240  
in scranton pennsylvania so i definitely

210  
00:08:32,230 --> 00:08:30,080  
have some great pictures of that area of

211  
00:08:34,870 --> 00:08:32,240  
pennsylvania that really beautiful area

212  
00:08:36,310 --> 00:08:34,880  
of pennsylvania

213  
00:08:38,630 --> 00:08:36,320

hi this is robert perlman with

214

00:08:40,070 --> 00:08:38,640

collectspace.com with a question for rex

215

00:08:41,990 --> 00:08:40,080

there's a tradition among shuttle crews

216

00:08:44,149 --> 00:08:42,000

to leave their mark their mission patch

217

00:08:45,110 --> 00:08:44,159

on various walls of the space station

218

00:08:47,190 --> 00:08:45,120

can you share where you and your

219

00:08:48,389 --> 00:08:47,200

crewmates plan to leave your emblem and

220

00:08:51,030 --> 00:08:48,399

will you be adding any other

221

00:08:53,030 --> 00:08:51,040

commemorative mementos or emblems to

222

00:08:57,910 --> 00:08:53,040

signify this as the last space shuttle

223

00:09:01,030 --> 00:08:59,670

yes they we they do have a place where

224

00:09:03,269 --> 00:09:01,040

we leave

225

00:09:04,389 --> 00:09:03,279

the patches in our stickers and

226

00:09:05,829 --> 00:09:04,399

we're going to leave our patch probably

227

00:09:07,670 --> 00:09:05,839

a node one and we should leave a sticker

228

00:09:09,430 --> 00:09:07,680

in the air lock because we consider

229

00:09:11,190 --> 00:09:09,440

ourselves one big team here with the

230

00:09:12,949 --> 00:09:11,200

shuttle in the station and we all

231

00:09:14,389 --> 00:09:12,959

executed the the spacewalk it was mike

232

00:09:16,230 --> 00:09:14,399

and ron the great guys who went outside

233

00:09:17,910 --> 00:09:16,240

and did that spacewalk but uh we all

234

00:09:20,630 --> 00:09:17,920

helped them and so we'd like to put one

235

00:09:22,790 --> 00:09:20,640

of our uh our mission uh stickers in

236

00:09:24,150 --> 00:09:22,800

in the uh in the airlock and regards to

237

00:09:26,949 --> 00:09:24,160

uh other things that we're leaving up

238

00:09:31,509 --> 00:09:26,959

here uh uh i'll let uh fergie if you

239

00:09:35,509 --> 00:09:33,430

uh yes we do have a uh

240

00:09:38,150 --> 00:09:35,519

we have a special uh item we're going to

241

00:09:39,750 --> 00:09:38,160

leave behind in in what hopefully is a

242

00:09:42,150 --> 00:09:39,760

is a very

243

00:09:43,509 --> 00:09:42,160

thought-provoking and emotional farewell

244

00:09:44,949 --> 00:09:43,519

ceremony that we have is the space

245

00:09:46,230 --> 00:09:44,959

shuttle prepares to leave the

246

00:09:48,150 --> 00:09:46,240

international space station for the

247

00:09:50,070 --> 00:09:48,160

final time and i would just ask you to

248

00:09:51,590 --> 00:09:50,080

perhaps hold on until that moment you'll

249

00:09:53,269 --> 00:09:51,600

get a you'll get a look at what we have

250

00:09:55,990 --> 00:09:53,279

in store

251

00:09:57,750 --> 00:09:56,000

atlantis iss this is houston acr that

252

00:09:59,030 --> 00:09:57,760

concludes questions from the johnson

253

00:10:01,509 --> 00:09:59,040

space center

254

00:10:05,030 --> 00:10:01,519

please stand by for a voice check from

255

00:10:07,030 --> 00:10:05,040

kennedy space center pao atlantis iss

256

00:10:08,470 --> 00:10:07,040

this is kennedy space center pao how do

257

00:10:09,910 --> 00:10:08,480

you hear me

258

00:10:15,190 --> 00:10:09,920

hello kennedy space center we have you

259

00:10:18,389 --> 00:10:17,030

magazine i was wondering if you could

260

00:10:20,870 --> 00:10:18,399

highlight some of the scientific

261

00:10:22,310 --> 00:10:20,880

experiments that you're working on

262

00:10:23,990 --> 00:10:22,320

on the international space station that

263

00:10:32,870 --> 00:10:24,000

you think will particularly inspire the

264

00:10:36,710 --> 00:10:34,710

well that's an excellent question you

265

00:10:37,829 --> 00:10:36,720

know we've had a permanent human

266

00:10:40,150 --> 00:10:37,839

presence on the international space

267

00:10:42,230 --> 00:10:40,160

station for over a decade now and over

268

00:10:44,389 --> 00:10:42,240

that time we've conducted over 600

269

00:10:45,750 --> 00:10:44,399

scientific experiments and

270

00:10:47,670 --> 00:10:45,760

you know one of the one of the things

271

00:10:49,990 --> 00:10:47,680

that we're trying to do is to see how

272

00:10:51,990 --> 00:10:50,000

humans can go further in exploration go

273

00:10:54,630 --> 00:10:52,000

beyond earth orbit explore our solar

274

00:10:55,910 --> 00:10:54,640

system but nearly all of the experiments

275

00:10:58,550 --> 00:10:55,920

that we conduct have a direct

276  
00:11:00,069 --> 00:10:58,560  
application on earth from growing crops

277  
00:11:01,269 --> 00:11:00,079  
better to making new materials new

278  
00:11:02,069 --> 00:11:01,279  
medicines

279  
00:11:04,150 --> 00:11:02,079  
we

280  
00:11:05,430 --> 00:11:04,160  
had some very significant research in

281  
00:11:06,790 --> 00:11:05,440  
the development of a vaccine for

282  
00:11:09,910 --> 00:11:06,800  
salmonella

283  
00:11:11,990 --> 00:11:09,920  
studying our earth learning how uh

284  
00:11:14,069 --> 00:11:12,000  
the learning about the human impact on

285  
00:11:15,030 --> 00:11:14,079  
the environment how the inner core of

286  
00:11:17,350 --> 00:11:15,040  
the earth

287  
00:11:19,430 --> 00:11:17,360  
works and possibly lead to

288  
00:11:23,350 --> 00:11:19,440

better ways to predict earthquakes

289

00:11:25,509 --> 00:11:23,360

better safe automobile safety better

290

00:11:27,910 --> 00:11:25,519

energy efficiency fuel efficiency so the

291

00:11:29,590 --> 00:11:27,920

list goes on and on it's just amazing

292

00:11:31,750 --> 00:11:29,600

the research that's being conducted up

293

00:11:33,269 --> 00:11:31,760

here and that's because this is a very

294

00:11:35,350 --> 00:11:33,279

very unique environment the research

295

00:11:37,509 --> 00:11:35,360

that's being conducted conducted up here

296

00:11:39,590 --> 00:11:37,519

simply cannot be done anywhere else in

297

00:11:41,829 --> 00:11:39,600

the world and so that's why this is such

298

00:11:43,030 --> 00:11:41,839

an important research facility and this

299

00:11:47,590 --> 00:11:43,040

is really a global asset the

300

00:11:52,069 --> 00:11:50,150

hi ken kramer from space flight magazine

301  
00:11:54,870 --> 00:11:52,079  
and rittenhouse astronomical society my

302  
00:11:56,069 --> 00:11:54,880  
question is for chris and and your crew

303  
00:11:57,430 --> 00:11:56,079  
i wonder if you could tell us a little

304  
00:11:59,269 --> 00:11:57,440  
bit about the science that you've

305  
00:12:01,030 --> 00:11:59,279  
personally seen

306  
00:12:02,790 --> 00:12:01,040  
going on at the space station uh

307  
00:12:05,269 --> 00:12:02,800  
anything about the ams can you see the

308  
00:12:12,389 --> 00:12:05,279  
ams from the cupula at all and and the

309  
00:12:17,670 --> 00:12:14,790  
uh absolutely we had a great opportunity

310  
00:12:20,949 --> 00:12:17,680  
ken to see it out the window uh a matter

311  
00:12:23,670 --> 00:12:20,959  
of fact uh on the first eva the only ava

312  
00:12:25,269 --> 00:12:23,680  
ron and went out there to uh to put

313  
00:12:26,870 --> 00:12:25,279

another payload and had an opportunity

314

00:12:28,230 --> 00:12:26,880

to take a loop around it and we had a

315

00:12:29,590 --> 00:12:28,240

chance to watch him out the window so

316

00:12:36,629 --> 00:12:29,600

it's out there and we understand it's

317

00:12:40,949 --> 00:12:38,710

stephen young with spaceflightnow.com

318

00:12:42,949 --> 00:12:40,959

for commander ferguson there's a public

319

00:12:44,310 --> 00:12:42,959

perception that your flight not only

320

00:12:46,310 --> 00:12:44,320

represents the end of the shuttle

321

00:12:48,870 --> 00:12:46,320

program but the end of the u.s manned

322

00:12:51,750 --> 00:12:48,880

space program do you have any fears at

323

00:12:53,750 --> 00:12:51,760

all that your crew might be the last

324

00:12:57,990 --> 00:12:53,760

astronauts to blast off from american

325

00:13:02,389 --> 00:12:59,990

well stephen i'll tell you no doubt that

326

00:13:04,310 --> 00:13:02,399

this is a it's it's a very dynamic time

327

00:13:07,750 --> 00:13:04,320

in human space flight as the the space

328

00:13:10,150 --> 00:13:07,760

shuttle draws to a close uh without a

329

00:13:12,710 --> 00:13:10,160

real uh clear picture of how the next

330

00:13:15,190 --> 00:13:12,720

u.s astronauts will get there but rest

331

00:13:17,990 --> 00:13:15,200

assured that there are plans underway uh

332

00:13:21,590 --> 00:13:18,000

we'll be slowly transitioning uh to

333

00:13:23,750 --> 00:13:21,600

commercial companies and i while it's a

334

00:13:25,350 --> 00:13:23,760

little personally disheartening to see

335

00:13:27,269 --> 00:13:25,360

the shuttle come we understand that you

336

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

know sometimes you need to stop working

337

00:13:30,870 --> 00:13:28,880

on what you're working on so you can

338

00:13:33,030 --> 00:13:30,880

afford to pay for the next generation of

339

00:13:35,030 --> 00:13:33,040

whatever it is and in this case it's the

340

00:13:36,230 --> 00:13:35,040

next generation of aircraft

341

00:13:38,230 --> 00:13:36,240

as a matter of fact i think it's a

342

00:13:40,710 --> 00:13:38,240

unique opportunity um you know just like

343

00:13:42,629 --> 00:13:40,720

the airlines did several years ago it

344

00:13:43,910 --> 00:13:42,639

was largely government-funded research

345

00:13:45,350 --> 00:13:43,920

that that

346

00:13:47,829 --> 00:13:45,360

made tremendous breakthroughs in

347

00:13:49,189 --> 00:13:47,839

aerospace uh only to hand it over to

348

00:13:51,269 --> 00:13:49,199

commercial companies in the form of

349

00:13:52,790 --> 00:13:51,279

airlines you know the the government has

350

00:13:54,310 --> 00:13:52,800

made tremendous strides in getting the

351  
00:13:56,629 --> 00:13:54,320  
low earth orbit and we're going to hand

352  
00:13:59,030 --> 00:13:56,639  
that technology over to uh commercial

353  
00:14:04,069 --> 00:13:59,040  
providers and perhaps one day we'll have

354  
00:14:08,790 --> 00:14:06,389  
this is leo enright for irish radios

355  
00:14:10,629 --> 00:14:08,800  
today with pat kenny program a lot of

356  
00:14:14,550 --> 00:14:10,639  
europeans have flown on the space

357  
00:14:17,189 --> 00:14:14,560  
shuttle but uh sadly no irish um so a

358  
00:14:18,790 --> 00:14:17,199  
lot of our um younger listeners will be

359  
00:14:19,910 --> 00:14:18,800  
worried now

360  
00:14:22,230 --> 00:14:19,920  
will they

361  
00:14:23,750 --> 00:14:22,240  
ever now have an opportunity to fly in

362  
00:14:32,389 --> 00:14:23,760  
space do you have any reassurance for

363  
00:14:37,430 --> 00:14:34,790

well actually i'm i'm a fair amount

364

00:14:39,110 --> 00:14:37,440

irish and uh i'm up here today so you

365

00:14:41,030 --> 00:14:39,120

know we'll call that good enough for now

366

00:14:43,269 --> 00:14:41,040

and i guarantee you there'll be a an

367

00:14:45,590 --> 00:14:43,279

irishman on board a spacecraft in the

368

00:14:46,949 --> 00:14:45,600

not too distant future so i don't think

369

00:14:49,030 --> 00:14:46,959

they have anything to worry about and i

370

00:14:50,949 --> 00:14:49,040

think they should if they're interested

371

00:14:52,629 --> 00:14:50,959

in space flight to just continue to

372

00:14:58,069 --> 00:14:52,639

study hard and

373

00:15:02,550 --> 00:15:00,069

uh marcia done associated press with

374

00:15:04,550 --> 00:15:02,560

another question for commander ferguson

375

00:15:06,470 --> 00:15:04,560

back in houston you described for me the

376

00:15:08,230 --> 00:15:06,480

overwhelming sensation that shuttle

377

00:15:10,069 --> 00:15:08,240

crews get when they pause at the base of

378

00:15:12,150 --> 00:15:10,079

the pad on launch day and look up at the

379

00:15:14,310 --> 00:15:12,160

ship i'm wondering can you tell me what

380

00:15:16,550 --> 00:15:14,320

that moment was like for you last friday

381

00:15:21,590 --> 00:15:16,560

when you looked up at atlantis knowing

382

00:15:26,389 --> 00:15:24,870

well i'll tell you uh marcia it is uh

383

00:15:29,269 --> 00:15:26,399

that has one trip that every shuttle

384

00:15:30,790 --> 00:15:29,279

crew has to make um and i think i speak

385

00:15:32,629 --> 00:15:30,800

for everyone who has ever flown on a

386

00:15:35,030 --> 00:15:32,639

space shuttle to stand there

387

00:15:37,590 --> 00:15:35,040

uh poised at the bottom of a living

388

00:15:39,110 --> 00:15:37,600

breathing vehicle and it's literally

389

00:15:40,710 --> 00:15:39,120

raining off the side of the external

390

00:15:42,710 --> 00:15:40,720

tank because of the condensation that

391

00:15:43,670 --> 00:15:42,720

forms from the extremely cold cryogenic

392

00:15:45,590 --> 00:15:43,680

fuels

393

00:15:47,509 --> 00:15:45,600

it's uh it's wheezing it's hissing it's

394

00:15:49,030 --> 00:15:47,519

moaning you look up at it and i remember

395

00:15:50,629 --> 00:15:49,040

my first commander looked at me and he

396

00:15:53,110 --> 00:15:50,639

said do you believe they're going to let

397

00:15:55,189 --> 00:15:53,120

us take this thing into space and uh

398

00:15:57,670 --> 00:15:55,199

with every uh subsequent crew i've been

399

00:15:59,910 --> 00:15:57,680

on i've i've i've tried to share that

400

00:16:01,990 --> 00:15:59,920

same uh that same reflection with uh

401

00:16:04,069 --> 00:16:02,000

with my crew it's it's incredibly

402

00:16:05,509 --> 00:16:04,079

awe-inspiring and just like the pictures

403

00:16:07,990 --> 00:16:05,519

that you see the next day in the in the

404

00:16:09,430 --> 00:16:08,000

photograph it's just incredibly surreal

405

00:16:10,870 --> 00:16:09,440

to stand there and look up at it and

406

00:16:15,030 --> 00:16:10,880

know that in a matter of hours it's

407

00:16:19,189 --> 00:16:17,590

good morning peter king with cbs news

408

00:16:21,350 --> 00:16:19,199

radio and this is for ron garan have

409

00:16:22,870 --> 00:16:21,360

enjoyed following your tweets i'm

410

00:16:24,389 --> 00:16:22,880

wondering since you're staying behind

411

00:16:26,470 --> 00:16:24,399

what's the best place on station to

412

00:16:28,230 --> 00:16:26,480

watch the undocking and fly around and

413

00:16:33,189 --> 00:16:28,240

do you expect a food fight for the best

414

00:16:35,509 --> 00:16:34,069

well

415

00:16:36,949 --> 00:16:35,519

we're going to do something a little

416

00:16:38,870 --> 00:16:36,959

different this time our fly around is

417

00:16:40,550 --> 00:16:38,880

going to be a little different so um i

418

00:16:42,949 --> 00:16:40,560

think we're going to have some some

419

00:16:45,430 --> 00:16:42,959

probably some good views in some of the

420

00:16:48,150 --> 00:16:45,440

modules in the russian segment that have

421

00:16:49,430 --> 00:16:48,160

horizon facing windows so i think

422

00:16:51,030 --> 00:16:49,440

that'll be the best bet and there's a

423

00:16:56,949 --> 00:16:51,040

there's a few of those so we'll take

424

00:17:01,189 --> 00:16:58,870

hi it's james dean from florida today

425

00:17:03,189 --> 00:17:01,199

another question for ron uh this is the

426

00:17:04,710 --> 00:17:03,199

last time i guess we'll in a very long

427

00:17:06,069 --> 00:17:04,720

time we'll see a crowd this big on the

428

00:17:08,230 --> 00:17:06,079

station

429

00:17:09,750 --> 00:17:08,240

although you'll continue to fly there

430

00:17:11,909 --> 00:17:09,760

for many years to come will it seem a

431

00:17:13,429 --> 00:17:11,919

little bit smaller a little less fun

432

00:17:18,150 --> 00:17:13,439

perhaps when you don't get these

433

00:17:23,350 --> 00:17:20,390

well i think it will seem uh

434

00:17:25,590 --> 00:17:23,360

a little bit smaller actually because um

435

00:17:27,990 --> 00:17:25,600

you know all the all the uh tons of

436

00:17:29,590 --> 00:17:28,000

cargo that have arrived from atlantis

437

00:17:31,029 --> 00:17:29,600

have filled this place up so there's a

438

00:17:32,870 --> 00:17:31,039

there's a lot less

439

00:17:35,350 --> 00:17:32,880

room for us humans

440

00:17:37,510 --> 00:17:35,360

so um but that that is really really

441

00:17:39,590 --> 00:17:37,520

important because you know we are

442

00:17:41,830 --> 00:17:39,600

outfitting this station to to function

443

00:17:43,669 --> 00:17:41,840

for the rest of the decade and uh

444

00:17:45,750 --> 00:17:43,679

atlantis has has really set us on the

445

00:17:46,950 --> 00:17:45,760

pace for doing that so

446

00:17:48,549 --> 00:17:46,960

and we are we're going to miss these

447

00:17:50,390 --> 00:17:48,559

guys a lot it's uh it's been really

448

00:17:53,190 --> 00:17:50,400

wonderful having them up here

449

00:17:55,029 --> 00:17:53,200

it is it is nice to have visitors and

450

00:17:57,510 --> 00:17:55,039

especially great visitors like these

451  
00:18:00,549 --> 00:17:57,520  
guys are and uh you know it'll be sad

452  
00:18:02,230 --> 00:18:00,559  
when uh when that stops but um you know

453  
00:18:04,789 --> 00:18:02,240  
we're going to continue on this this

454  
00:18:06,070 --> 00:18:04,799  
place is amazing and uh

455  
00:18:08,150 --> 00:18:06,080  
it's going to continue to function

456  
00:18:09,909 --> 00:18:08,160  
continue to be utilized in great part

457  
00:18:14,470 --> 00:18:09,919  
because of the great mission so far that

458  
00:18:18,310 --> 00:18:16,310  
hi it's bill harwood cbs news with a

459  
00:18:19,110 --> 00:18:18,320  
question for i think sergey volkov if i

460  
00:18:22,549 --> 00:18:19,120  
could

461  
00:18:24,789 --> 00:18:22,559  
um sergey you you've heard the the

462  
00:18:26,630 --> 00:18:24,799  
u.s reporters ask u.s astronauts about

463  
00:18:28,070 --> 00:18:26,640

the end of the shuttle and what might

464

00:18:29,669 --> 00:18:28,080

come next what do you what do the

465

00:18:31,669 --> 00:18:29,679

russians think about that when you guys

466

00:18:34,310 --> 00:18:31,679

talk about it the end of the shuttle and

467

00:18:36,630 --> 00:18:34,320

this gap that's coming up and nasa's

468

00:18:42,789 --> 00:18:36,640

reliance on russia for transportation

469

00:18:48,150 --> 00:18:46,470

um for us it's also very sad that no

470

00:18:50,470 --> 00:18:48,160

more shuttles will appear onboard the

471

00:18:52,230 --> 00:18:50,480

station because thanks to this brilliant

472

00:18:56,150 --> 00:18:52,240

machine we were able to build this

473

00:18:59,990 --> 00:18:56,160

station so big and

474

00:19:01,590 --> 00:19:00,000

ready to have six-person crew

475

00:19:03,270 --> 00:19:01,600

of course we

476

00:19:06,470 --> 00:19:03,280

we would like to

477

00:19:07,990 --> 00:19:06,480

continue to fly with our friends and

478

00:19:11,669 --> 00:19:08,000

say us are ready

479

00:19:15,909 --> 00:19:11,679

to continue this exploration of space

480

00:19:20,150 --> 00:19:18,630

david waters from spaceflightnow.com

481

00:19:22,150 --> 00:19:20,160

at the beginning of the shuttle program

482

00:19:23,909 --> 00:19:22,160

it was john young and bob crippen that

483

00:19:25,590 --> 00:19:23,919

was one end of the bookend you're the

484

00:19:27,110 --> 00:19:25,600

last shuttle crew to go up kind of

485

00:19:28,950 --> 00:19:27,120

bookend this for us and tell us for

486

00:19:30,549 --> 00:19:28,960

people listening to this how you want

487

00:19:32,150 --> 00:19:30,559

people to look back at the shuttle

488

00:19:39,110 --> 00:19:32,160

program that one for chris ferguson

489

00:19:43,909 --> 00:19:41,990

well you know the shuttle is uh

490

00:19:57,270 --> 00:19:43,919

several milestones over the course of

491

00:20:01,270 --> 00:19:59,830

they have to um they have to live it

492

00:20:02,789 --> 00:20:01,280

through the pictures and the images and

493

00:20:04,630 --> 00:20:02,799

the stories that the astronauts bring

494

00:20:06,470 --> 00:20:04,640

home they don't get to see it and touch

495

00:20:08,630 --> 00:20:06,480

it and feel it like we do vehicles that

496

00:20:11,430 --> 00:20:08,640

go uh up and down uh like the space

497

00:20:13,110 --> 00:20:11,440

shuttle so uh

498

00:20:15,830 --> 00:20:13,120

you know it's it's a it's a sobering

499

00:20:17,669 --> 00:20:15,840

moment it's uh uh but at the same time

500

00:20:19,830 --> 00:20:17,679

we're incredibly overjoyed to just have

501  
00:20:22,230 --> 00:20:19,840  
had the space shuttle for 30 years and

502  
00:20:24,390 --> 00:20:22,240  
uh to know that uh you know we had this

503  
00:20:25,909 --> 00:20:24,400  
ability to go to low earth orbit and

504  
00:20:28,070 --> 00:20:25,919  
we're so much more comfortable here than

505  
00:20:30,230 --> 00:20:28,080  
we were just a short time ago and we

506  
00:20:34,230 --> 00:20:30,240  
hope that that continues on to our our

507  
00:20:35,830 --> 00:20:34,240  
commercial space flight partners

508  
00:20:37,510 --> 00:20:35,840  
and chris i'm so sorry to do this to you

509  
00:20:40,230 --> 00:20:37,520  
but we lost your video downlink for the

510  
00:20:41,909 --> 00:20:40,240  
first uh 30 seconds of that answer so if

511  
00:20:43,990 --> 00:20:41,919  
you could just start that part again and

512  
00:20:45,270 --> 00:20:44,000  
just tell us when we look back at the 30

513  
00:20:47,029 --> 00:20:45,280

years of these i thought it was you

514

00:20:49,350 --> 00:20:47,039

didn't like my question but anyway when

515

00:20:51,430 --> 00:20:49,360

we look back when we look back at the 30

516

00:20:53,350 --> 00:20:51,440

years of the space shuttle program what

517

00:20:57,590 --> 00:20:53,360

do you want people to remember about the

518

00:21:00,950 --> 00:20:59,590

well yeah we don't have the fade to

519

00:21:03,270 --> 00:21:00,960

black switch up here i wish we did

520

00:21:04,789 --> 00:21:03,280

sometimes

521

00:21:07,190 --> 00:21:04,799

but uh you know of course we have the

522

00:21:09,190 --> 00:21:07,200

international space station to uh uh to

523

00:21:10,390 --> 00:21:09,200

look back upon if it weren't for the uh

524

00:21:11,510 --> 00:21:10,400

if it weren't for the space shuttle the

525

00:21:13,270 --> 00:21:11,520

station wouldn't be here and it

526

00:21:15,270 --> 00:21:13,280

certainly wouldn't be as large as it is

527

00:21:17,510 --> 00:21:15,280

it's the that large payload bay that's

528

00:21:19,350 --> 00:21:17,520

in the space shuttle that allows uh the

529

00:21:21,270 --> 00:21:19,360

the the large diameter that you see

530

00:21:23,190 --> 00:21:21,280

around us it allows us to sit five

531

00:21:24,549 --> 00:21:23,200

across in here if it wasn't for the

532

00:21:26,470 --> 00:21:24,559

space shuttle we wouldn't be doing

533

00:21:28,149 --> 00:21:26,480

anything like that um of course there's

534

00:21:29,430 --> 00:21:28,159

also the tremendous observatories that

535

00:21:31,909 --> 00:21:29,440

the shuttle has launched throughout its

536

00:21:34,630 --> 00:21:31,919

years hubble space telescope compton

537

00:21:37,270 --> 00:21:34,640

gamma ray the chandra x-ray uh space

538

00:21:39,669 --> 00:21:37,280

telescope uh plus uh the space shuttle

539

00:21:41,510 --> 00:21:39,679

has really uh it's it's i don't wanna

540

00:21:43,990 --> 00:21:41,520

say we have command of low earth orbit

541

00:21:45,510 --> 00:21:44,000

we're so much more comfortable here

542

00:21:47,669 --> 00:21:45,520

you know living and working day in and

543

00:21:49,270 --> 00:21:47,679

day out and we'll look back at the space

544

00:21:51,270 --> 00:21:49,280

shuttle as a

545

00:21:53,830 --> 00:21:51,280

vehicle that just gave us regular access

546

00:21:56,149 --> 00:21:53,840

and and it opened up low earth orbit so

547

00:21:57,669 --> 00:21:56,159

that we can go beyond and we can learn

548

00:22:00,230 --> 00:21:57,679

how to live

549

00:22:04,710 --> 00:22:00,240

in areas perhaps in lunar orbit or lunar

550

00:22:08,950 --> 00:22:07,350

atlantis iss this is houston acr that

551  
00:22:10,870 --> 00:22:08,960  
concludes questions from the kennedy

552  
00:22:17,990 --> 00:22:10,880  
space center please stand by for a voice

553  
00:22:25,190 --> 00:22:20,230  
atlantis iss this is nasa headquarters

554  
00:22:29,909 --> 00:22:26,230  
we have loud and clear on the

555  
00:22:34,470 --> 00:22:32,870  
hi suzanne presto from voa ron can you

556  
00:22:36,630 --> 00:22:34,480  
tell us a bit more about your science

557  
00:22:38,070 --> 00:22:36,640  
activities on station particularly any

558  
00:22:39,669 --> 00:22:38,080  
experiments you've been working on that

559  
00:22:46,310 --> 00:22:39,679  
will be coming back down on shuttle

560  
00:22:49,830 --> 00:22:48,470  
well um

561  
00:22:51,110 --> 00:22:49,840  
that that would take a long time to

562  
00:22:53,110 --> 00:22:51,120  
answer we've been we have been doing a

563  
00:22:55,190 --> 00:22:53,120

lot of science on board and

564

00:22:57,270 --> 00:22:55,200

as far as i know i think the only well i

565

00:22:59,270 --> 00:22:57,280

mean there's a lot of uh human research

566

00:23:01,830 --> 00:22:59,280

where we're that we're kind of the uh

567

00:23:03,190 --> 00:23:01,840

the subjects and uh there's a lot of

568

00:23:04,710 --> 00:23:03,200

that science that's gonna go down on the

569

00:23:05,990 --> 00:23:04,720

shuttle we also have some spiders on

570

00:23:07,990 --> 00:23:06,000

board right now

571

00:23:09,190 --> 00:23:08,000

that uh are being studied and and

572

00:23:10,470 --> 00:23:09,200

they're they're going down on the

573

00:23:12,549 --> 00:23:10,480

shuttle as well

574

00:23:15,190 --> 00:23:12,559

uh but we've been conducting experiments

575

00:23:17,430 --> 00:23:15,200

uh fluid experiments cr protein crystal

576

00:23:19,430 --> 00:23:17,440

growth experiments uh plant growth

577

00:23:21,190 --> 00:23:19,440

experiments uh

578

00:23:22,710 --> 00:23:21,200

experiments with the human body and the

579

00:23:25,029 --> 00:23:22,720

function of the human body looking at

580

00:23:26,470 --> 00:23:25,039

things like you know how to combat

581

00:23:28,310 --> 00:23:26,480

osteoporosis

582

00:23:31,110 --> 00:23:28,320

so there's a quite a bit of science

583

00:23:33,430 --> 00:23:31,120

going on board um combustion uh science

584

00:23:35,510 --> 00:23:33,440

we've been doing as well so we are we

585

00:23:37,270 --> 00:23:35,520

are at the at the beginning of full

586

00:23:43,110 --> 00:23:37,280

utilization of this amazing research

587

00:23:47,350 --> 00:23:45,669

uh keith callingnesswatch.com for uh

588

00:23:48,870 --> 00:23:47,360

chris ferguson this is the last shuttle

589

00:23:50,230 --> 00:23:48,880

mission so most of you probably not

590

00:23:52,470 --> 00:23:50,240

gonna get the fly again at least not for

591

00:23:53,830 --> 00:23:52,480

a few years and that said i have to say

592

00:23:55,830 --> 00:23:53,840

it must be a little tiring for you to

593

00:23:57,750 --> 00:23:55,840

try and plan a career and stay motivated

594

00:23:59,510 --> 00:23:57,760

you must be like a tennis ball at times

595

00:24:01,269 --> 00:23:59,520

especially when the white house proposes

596

00:24:02,549 --> 00:24:01,279

a policy congress cuts it and so forth

597

00:24:04,710 --> 00:24:02,559

and it goes in a circle and we pretty

598

00:24:06,630 --> 00:24:04,720

much don't go much of anywhere

599

00:24:08,549 --> 00:24:06,640

as we speak you're floating off planet

600

00:24:09,990 --> 00:24:08,559

on the edge of tomorrow literally that

601  
00:24:12,390 --> 00:24:10,000  
certainly offers you an unique

602  
00:24:13,830 --> 00:24:12,400  
perspective and the ability to be heard

603  
00:24:16,070 --> 00:24:13,840  
what is it that we should be doing

604  
00:24:18,070 --> 00:24:16,080  
really should be doing to explore space

605  
00:24:19,990 --> 00:24:18,080  
which are policy makers in washington be

606  
00:24:21,909 --> 00:24:20,000  
doing what should they stop doing

607  
00:24:23,669 --> 00:24:21,919  
and i guess should we be boldly going

608  
00:24:25,750 --> 00:24:23,679  
somewhere or just continue to waste time

609  
00:24:26,870 --> 00:24:25,760  
uh doing this in powerpoint what would

610  
00:24:28,149 --> 00:24:26,880  
you say you're gonna talk to the

611  
00:24:30,310 --> 00:24:28,159  
president in like an hour and a half or

612  
00:24:32,549 --> 00:24:30,320  
so if you really want to say one thing

613  
00:24:34,390 --> 00:24:32,559

to them what is it that you would say to

614

00:24:39,669 --> 00:24:34,400

move forward the whole notion of

615

00:24:43,510 --> 00:24:42,070

hey well hello keith first of all and

616

00:24:44,310 --> 00:24:43,520

thanks for the question

617

00:24:45,909 --> 00:24:44,320

um

618

00:24:47,669 --> 00:24:45,919

boy i'll tell you i i do share a little

619

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

bit of your frustration uh we've we've

620

00:24:52,630 --> 00:24:50,400

had a lot of major programs uh vibrant

621

00:24:55,990 --> 00:24:52,640

and very interesting programs uh come

622

00:24:58,789 --> 00:24:56,000

and go at nasa without uh coming to you

623

00:25:00,710 --> 00:24:58,799

know fruition and uh a lot of that is

624

00:25:02,390 --> 00:25:00,720

it's politics driven a lot of it is

625

00:25:04,310 --> 00:25:02,400

funding driven a lot of it is due to

626

00:25:06,390 --> 00:25:04,320

dynamic events like for example the loss

627

00:25:08,149 --> 00:25:06,400

of colombia these are certainly things

628

00:25:10,230 --> 00:25:08,159

um you know some of them are clearly out

629

00:25:11,510 --> 00:25:10,240

of our control and to answer your

630

00:25:13,510 --> 00:25:11,520

question if there's one thing that we

631

00:25:15,430 --> 00:25:13,520

could do

632

00:25:17,590 --> 00:25:15,440

to focus if you will

633

00:25:21,110 --> 00:25:17,600

efforts it's to

634

00:25:22,950 --> 00:25:21,120

just appeal to congress to focus

635

00:25:24,710 --> 00:25:22,960

on the long term

636

00:25:26,710 --> 00:25:24,720

you know look at the horizon don't look

637

00:25:28,549 --> 00:25:26,720

one or two years in the future

638

00:25:31,029 --> 00:25:28,559

but look at 10 years and see where you

639

00:25:32,630 --> 00:25:31,039

want this nation to be and i understand

640

00:25:34,549 --> 00:25:32,640

that the president has a space policy

641

00:25:37,190 --> 00:25:34,559

and i think that that's fantastic but we

642

00:25:38,950 --> 00:25:37,200

need to retain a coherent meaningful

643

00:25:40,470 --> 00:25:38,960

space policy that will take us more than

644

00:25:43,350 --> 00:25:40,480

just one or two years in the future that

645

00:25:45,909 --> 00:25:43,360

will take us out to 10 and 15 years

646

00:25:47,990 --> 00:25:45,919

you know a decadal plan if you will of

647

00:25:50,710 --> 00:25:48,000

where we want this nation to go in space

648

00:25:52,789 --> 00:25:50,720

and make it a law to follow it so that

649

00:25:55,110 --> 00:25:52,799

you know perhaps

650

00:25:57,269 --> 00:25:55,120

congressional representative senators

651  
00:25:58,950 --> 00:25:57,279  
presidential administrations are obliged

652  
00:26:01,110 --> 00:25:58,960  
to follow the policy that this nation

653  
00:26:03,190 --> 00:26:01,120  
set forth so we can chart out something

654  
00:26:07,590 --> 00:26:03,200  
that's 10 or 15 years in a destination

655  
00:26:11,909 --> 00:26:10,390  
atlantis iss this is houston acr that

656  
00:26:14,230 --> 00:26:11,919  
concludes questions from nasa

657  
00:26:16,310 --> 00:26:14,240  
headquarters please stand by for a voice

658  
00:26:18,549 --> 00:26:16,320  
check from marshall space flight center

659  
00:26:20,549 --> 00:26:18,559  
pao

660  
00:26:25,590 --> 00:26:20,559  
atlantis iss this is marshall space

661  
00:26:25,600 --> 00:26:29,909  
we have you loud and clear

662  
00:26:35,750 --> 00:26:33,269  
hi my name is ricky klaus from whnt news

663  
00:26:38,390 --> 00:26:35,760

19 and i wanted to ask much of the world

664

00:26:41,510 --> 00:26:38,400

was watching as you guys skyrocketed

665

00:26:43,350 --> 00:26:41,520

into space excited you know loving to

666

00:26:52,070 --> 00:26:43,360

see you what was going through your

667

00:26:55,190 --> 00:26:53,269

there's a lot of emotions going through

668

00:26:56,870 --> 00:26:55,200

your mind it's it the space shuttle

669

00:26:59,029 --> 00:26:56,880

launch is a very interesting experience

670

00:27:00,470 --> 00:26:59,039

it's it's kind of like uh the the year

671

00:27:01,830 --> 00:27:00,480

in the year prior to the launch you're

672

00:27:03,350 --> 00:27:01,840

preparing for the super bowl but you

673

00:27:05,669 --> 00:27:03,360

don't know exactly what day the super

674

00:27:07,269 --> 00:27:05,679

bowl is so you get all prepared and uh

675

00:27:08,549 --> 00:27:07,279

even on the day of your schedule launch

676  
00:27:09,830 --> 00:27:08,559  
you're looking at the weather thinking

677  
00:27:11,430 --> 00:27:09,840  
are we going to go aren't we going to go

678  
00:27:14,230 --> 00:27:11,440  
and on this launch it was no different

679  
00:27:16,390 --> 00:27:14,240  
we had a 70 chance of not going but we

680  
00:27:17,590 --> 00:27:16,400  
got to prepare as if we're going and you

681  
00:27:19,590 --> 00:27:17,600  
walk out there and you look at this

682  
00:27:20,389 --> 00:27:19,600  
amazing vehicle on the launch pad and

683  
00:27:22,630 --> 00:27:20,399  
you just

684  
00:27:24,310 --> 00:27:22,640  
nothing comes with your mind but wow and

685  
00:27:26,230 --> 00:27:24,320  
you get up there and strap in and you're

686  
00:27:27,830 --> 00:27:26,240  
still waiting and you never know for

687  
00:27:29,669 --> 00:27:27,840  
sure whether you're going until that the

688  
00:27:31,350 --> 00:27:29,679

last second because we had a hold at 31

689

00:27:32,470 --> 00:27:31,360

seconds and we're going to oh no now

690

00:27:33,669 --> 00:27:32,480

what and

691

00:27:35,029 --> 00:27:33,679

the funny thing about that is they

692

00:27:37,029 --> 00:27:35,039

picked up the count and austin was like

693

00:27:38,789 --> 00:27:37,039

ready set go and bam we were off to the

694

00:27:40,310 --> 00:27:38,799

races and uh we were getting shot off

695

00:27:41,510 --> 00:27:40,320

the planet and it was just absolutely

696

00:27:43,190 --> 00:27:41,520

amazing so

697

00:27:44,870 --> 00:27:43,200

the whole ride up you get your big

698

00:27:47,029 --> 00:27:44,880

wide-eyed and just experiencing all the

699

00:27:48,870 --> 00:27:47,039

uh all the the the thrill of the g's and

700

00:27:52,630 --> 00:27:48,880

also the incredible sights and sounds

701  
00:27:57,990 --> 00:27:55,590  
with wade 31 in huntsville you guys are

702  
00:27:59,909 --> 00:27:58,000  
part of a very exclusive club on the

703  
00:28:01,269 --> 00:27:59,919  
last shuttle mission what are some of

704  
00:28:09,110 --> 00:28:01,279  
the moments that you're relishing the

705  
00:28:13,430 --> 00:28:11,190  
well i think we're all relishing just

706  
00:28:15,190 --> 00:28:13,440  
the the fact that we're in space again

707  
00:28:16,630 --> 00:28:15,200  
we're able to float around we're here on

708  
00:28:21,430 --> 00:28:16,640  
the space station

709  
00:28:23,510 --> 00:28:21,440  
just living in this environment and and

710  
00:28:25,590 --> 00:28:23,520  
working hard to make this a better place

711  
00:28:28,070 --> 00:28:25,600  
to live and to sustain it for the next

712  
00:28:30,470 --> 00:28:28,080  
year it really is special being up here

713  
00:28:32,630 --> 00:28:30,480

and and whenever we're up here

714

00:28:33,510 --> 00:28:32,640

we just try and savor that as much as we

715

00:28:34,870 --> 00:28:33,520

can

716

00:28:36,389 --> 00:28:34,880

whether you're on your first shuttle

717

00:28:39,590 --> 00:28:36,399

mission your second shuttle mission or

718

00:28:42,149 --> 00:28:39,600

this the last shuttle mission

719

00:28:44,070 --> 00:28:42,159

my name is monica rix i'm with wasf out

720

00:28:46,310 --> 00:28:44,080

of the rocket city and sandy i've been

721

00:28:48,389 --> 00:28:46,320

admiring your hair all morning and this

722

00:28:51,590 --> 00:28:48,399

question is for you too you've been this

723

00:28:53,669 --> 00:28:51,600

is your second time up at the iss

724

00:28:56,070 --> 00:28:53,679

um tell me the changes that have gone

725

00:28:59,269 --> 00:28:56,080

through the space station and and how it

726

00:29:01,350 --> 00:28:59,279

looks now and also you've got six days

727

00:29:02,630 --> 00:29:01,360

left before you know some crew members

728

00:29:07,269 --> 00:29:02,640

leave is there anything you want to do

729

00:29:11,110 --> 00:29:09,269

well certainly the space station feels a

730

00:29:13,750 --> 00:29:11,120

lot like home the minute we opened the

731

00:29:15,590 --> 00:29:13,760

hatch i i felt like i'd never left but

732

00:29:17,750 --> 00:29:15,600

in the in the meantime that since i'd

733

00:29:20,149 --> 00:29:17,760

been here two years ago several new

734

00:29:22,149 --> 00:29:20,159

modules have arrived uh the most

735

00:29:23,909 --> 00:29:22,159

enjoyable one of which is the cupola

736

00:29:26,389 --> 00:29:23,919

which is this very nice

737

00:29:29,110 --> 00:29:26,399

windowed uh module that we can see these

738

00:29:31,430 --> 00:29:29,120

spectacular views of the earth so

739

00:29:33,110 --> 00:29:31,440

almost after a couple hours after we

740

00:29:35,750 --> 00:29:33,120

docked and we had a break we all ran up

741

00:29:37,750 --> 00:29:35,760

to the cupola to see the view from there

742

00:29:39,430 --> 00:29:37,760

so the station you know it's the same

743

00:29:41,110 --> 00:29:39,440

but yet it's different in some ways a

744

00:29:43,269 --> 00:29:41,120

lot of the operations still the same

745

00:29:45,029 --> 00:29:43,279

these guys are taking great care of it

746

00:29:46,549 --> 00:29:45,039

as far as the remaining time of the

747

00:29:48,149 --> 00:29:46,559

mission we're going to finish out our

748

00:29:50,070 --> 00:29:48,159

transfer and hopefully we'll get that

749

00:29:52,149 --> 00:29:50,080

done a little bit early and we'll have

750

00:29:53,990 --> 00:29:52,159

some time to spend in the cupola and

751  
00:29:56,310 --> 00:29:54,000  
some of the other windows and just with

752  
00:29:59,669 --> 00:29:56,320  
our station colleagues and uh and share

753  
00:30:02,070 --> 00:29:59,679  
some memories before we have to leave

754  
00:30:03,510 --> 00:30:02,080  
atlantis iss this is houston acr that

755  
00:30:05,430 --> 00:30:03,520  
concludes questions from the marshall

756  
00:30:09,510 --> 00:30:05,440  
space flight center we will rejoin you

757  
00:30:14,710 --> 00:30:12,950  
atlantis iss this is houston acr

758  
00:30:16,789 --> 00:30:14,720  
back with you

759  
00:30:21,350 --> 00:30:16,799  
please stand by for a voice check from

760  
00:30:28,950 --> 00:30:23,590  
atlantis iss this is ames research

761  
00:30:32,310 --> 00:30:30,630  
we have you loud and clear at ames it's

762  
00:30:33,909 --> 00:30:32,320  
going to take us about another 30

763  
00:30:44,549 --> 00:30:33,919

seconds or so to get all set in the

764

00:30:54,230 --> 00:30:46,070

that was probably the most entertaining

765

00:30:54,240 --> 00:30:56,789

can i go

766

00:31:02,389 --> 00:30:59,029

uh good morning this is bob rebel i'm

767

00:31:05,350 --> 00:31:02,399

with mbc bay area the home market of rex

768

00:31:06,789 --> 00:31:05,360

walheim so my question is for you rex

769

00:31:08,710 --> 00:31:06,799

what are your thoughts on the shuttle

770

00:31:10,710 --> 00:31:08,720

program coming to an end what do you

771

00:31:13,350 --> 00:31:10,720

think its legacy is going to be and most

772

00:31:18,389 --> 00:31:13,360

importantly were you able to spot san

773

00:31:23,110 --> 00:31:20,230

well to answer the uh the the first one

774

00:31:25,029 --> 00:31:23,120

i i we did have a passover uh california

775

00:31:26,630 --> 00:31:25,039

just in time actually as i was having a

776

00:31:27,909 --> 00:31:26,640

family conference uh private family

777

00:31:29,909 --> 00:31:27,919

conference the only one we have during

778

00:31:31,590 --> 00:31:29,919

the mission uh with my wife and two boys

779

00:31:33,190 --> 00:31:31,600

and so i had a chance to to see us

780

00:31:34,630 --> 00:31:33,200

coming over california the berry was a

781

00:31:36,310 --> 00:31:34,640

little bit foggy so i couldn't quite see

782

00:31:38,549 --> 00:31:36,320

san francisco but it was spectacular to

783

00:31:39,669 --> 00:31:38,559

see the uh the central valley and some

784

00:31:41,110 --> 00:31:39,679

of southern california a little bit of

785

00:31:43,350 --> 00:31:41,120

northern california

786

00:31:45,509 --> 00:31:43,360

the shuttle's legacy as far as that goes

787

00:31:47,669 --> 00:31:45,519

number one it it sent probes to

788

00:31:49,029 --> 00:31:47,679

different planets it launched probes it

789

00:31:51,509 --> 00:31:49,039

launched great observatories like the

790

00:31:53,269 --> 00:31:51,519

hubble space telescope and then the

791

00:31:55,509 --> 00:31:53,279

crown jewel of the space shuttle program

792

00:31:56,789 --> 00:31:55,519

is it helped to build this magnificent

793

00:31:58,549 --> 00:31:56,799

international space station that we're

794

00:32:00,389 --> 00:31:58,559

on right now it wouldn't be the size of

795

00:32:01,909 --> 00:32:00,399

the magnitude without the space shuttle

796

00:32:03,190 --> 00:32:01,919

and the space shuttle's had a storied

797

00:32:04,630 --> 00:32:03,200

30-year career but what i'd like to

798

00:32:06,310 --> 00:32:04,640

think is that space shuttle's legacy

799

00:32:08,149 --> 00:32:06,320

lives on hubble will still be taking

800

00:32:09,350 --> 00:32:08,159

picture our crewmates here will still be

801  
00:32:10,630 --> 00:32:09,360  
doing research on the international

802  
00:32:12,149 --> 00:32:10,640  
space station and

803  
00:32:14,310 --> 00:32:12,159  
that's all legacy the shuttle which will

804  
00:32:15,990 --> 00:32:14,320  
continue to live on and for the future

805  
00:32:17,750 --> 00:32:16,000  
i'm hoping that as this shuttle is

806  
00:32:19,509 --> 00:32:17,760  
retired that money that we would be

807  
00:32:20,950 --> 00:32:19,519  
spending on the shuttle is available to

808  
00:32:23,029 --> 00:32:20,960  
not only continue the international

809  
00:32:24,470 --> 00:32:23,039  
space station research but go beyond we

810  
00:32:25,509 --> 00:32:24,480  
need to get back in the exploration

811  
00:32:32,070 --> 00:32:25,519  
business where we're going to an

812  
00:32:36,230 --> 00:32:34,389  
good morning this is matt bigler kcbs

813  
00:32:38,630 --> 00:32:36,240

radio and this is a question for x or

814

00:32:40,470 --> 00:32:38,640

whoever would like to field it and we're

815

00:32:42,710 --> 00:32:40,480

speaking to you from silicon valley the

816

00:32:45,029 --> 00:32:42,720

home of google and facebook and things

817

00:32:47,110 --> 00:32:45,039

like social media and the iphone and my

818

00:32:49,269 --> 00:32:47,120

question is what effect do you think

819

00:32:52,230 --> 00:32:49,279

that some of these high-tech innovations

820

00:32:54,870 --> 00:32:52,240

have had on america's interest in space

821

00:32:59,190 --> 00:32:54,880

travel and our ability to explore the

822

00:33:03,430 --> 00:33:01,750

well i think uh the technology is it it

823

00:33:05,269 --> 00:33:03,440

has an inherent interest and people just

824

00:33:07,029 --> 00:33:05,279

take an inherent interest in it and i

825

00:33:08,630 --> 00:33:07,039

think silicon valley is the genesis a

826

00:33:10,789 --> 00:33:08,640

lot of the technology we use here on the

827

00:33:13,269 --> 00:33:10,799

space station so i really do think it

828

00:33:15,830 --> 00:33:13,279

plays a very important role from

829

00:33:17,350 --> 00:33:15,840

from from inspiring grade school kids to

830

00:33:19,830 --> 00:33:17,360

actually providing the science that we

831

00:33:20,950 --> 00:33:19,840

need to do our do our research here and

832

00:33:22,710 --> 00:33:20,960

i think that's going to always keep

833

00:33:24,389 --> 00:33:22,720

people curious and curiosity is a very

834

00:33:26,070 --> 00:33:24,399

important thing that you need to

835

00:33:27,669 --> 00:33:26,080

to be able to develop a space program

836

00:33:29,750 --> 00:33:27,679

then develop a good research program

837

00:33:33,830 --> 00:33:29,760

that can really pay incredible dividends

838

00:33:37,990 --> 00:33:35,909

hi this is jane lee with the san jose

839

00:33:40,630 --> 00:33:38,000

mercury news and this question is from

840

00:33:41,830 --> 00:33:40,640

rex walheim um i was wondering what you

841

00:33:47,590 --> 00:33:41,840

felt when you found out that you were

842

00:33:51,350 --> 00:33:49,269

well i think like most of us i was very

843

00:33:54,149 --> 00:33:51,360

honored it was so great to get a chance

844

00:33:55,269 --> 00:33:54,159

to to fly in space again i wasn't sure

845

00:33:56,149 --> 00:33:55,279

none of us were really sure we were ever

846

00:33:57,750 --> 00:33:56,159

going to get a chance because they had

847

00:33:59,830 --> 00:33:57,760

assigned the last mission and so we

848

00:34:01,750 --> 00:33:59,840

thought well our chance had had gone had

849

00:34:04,070 --> 00:34:01,760

gone by it's kind of like being at

850

00:34:05,669 --> 00:34:04,080

disneyland and the ride closed and just

851

00:34:07,190 --> 00:34:05,679

before you get to the front of the line

852

00:34:08,790 --> 00:34:07,200

but then they added a new flight and we

853

00:34:10,550 --> 00:34:08,800

were kind of getting close to the uh to

854

00:34:12,310 --> 00:34:10,560

the to the front and we were we're very

855

00:34:14,550 --> 00:34:12,320

very fortunate to be entrusted to fly on

856

00:34:16,550 --> 00:34:14,560

this mission and uh it was extremely

857

00:34:18,149 --> 00:34:16,560

overjoyed to get a chance to chance to

858

00:34:22,710 --> 00:34:18,159

come here again it's an amazing place up

859

00:34:27,990 --> 00:34:25,750

good morning alan thayer with kftl tv 28

860

00:34:29,669 --> 00:34:28,000

and this also is for rex our hometown

861

00:34:31,430 --> 00:34:29,679

representative rex i'd like to know how

862

00:34:33,510 --> 00:34:31,440

your many contributions to the shuttle

863

00:34:35,669 --> 00:34:33,520

and the iss programs as well as the

864

00:34:37,669 --> 00:34:35,679

magnificent views of earth and the stars

865

00:34:40,069 --> 00:34:37,679

from your vantage point how have all

866

00:34:41,829 --> 00:34:40,079

these helped shape you as a person and

867

00:34:46,470 --> 00:34:41,839

have led you to ponder human kinds

868

00:34:49,349 --> 00:34:48,149

well it is an absolutely amazing

869

00:34:50,310 --> 00:34:49,359

creation looking on the earth and

870

00:34:52,710 --> 00:34:50,320

there's just

871

00:34:54,790 --> 00:34:52,720

you can't describe it and we are uh

872

00:34:56,629 --> 00:34:54,800

we're all trying to continue to this

873

00:34:58,069 --> 00:34:56,639

this exploration of space and one of the

874

00:35:00,150 --> 00:34:58,079

things we want to do is make it more

875

00:35:01,990 --> 00:35:00,160

accessible to everyday people to get

876

00:35:03,829 --> 00:35:02,000

everybody a chance to come in space one

877

00:35:05,829 --> 00:35:03,839

day because it changes your perspective

878

00:35:06,870 --> 00:35:05,839

look at us here we have 10 people from

879

00:35:09,109 --> 00:35:06,880

three different countries we have

880

00:35:10,950 --> 00:35:09,119

americans russians and a japanese

881

00:35:12,790 --> 00:35:10,960

astronaut and we're all working together

882

00:35:14,630 --> 00:35:12,800

we live together work together solve

883

00:35:16,310 --> 00:35:14,640

problems together laugh together and

884

00:35:17,990 --> 00:35:16,320

it's just an amazing camaraderie and

885

00:35:19,910 --> 00:35:18,000

we're one big team and we execute the

886

00:35:21,670 --> 00:35:19,920

plan as one big team and you look down

887

00:35:23,109 --> 00:35:21,680

at the earth that's just one big planet

888

00:35:24,710 --> 00:35:23,119

we're all in together and i think the

889

00:35:26,470 --> 00:35:24,720

more people we get up here

890

00:35:30,950 --> 00:35:26,480

to see that perspective the better off

891

00:35:35,190 --> 00:35:32,710

hi my name is jade hernandez i'm with

892

00:35:37,430 --> 00:35:35,200

ktvu channel 2 news it's the fox

893

00:35:40,310 --> 00:35:37,440

affiliate my question is for mission

894

00:35:41,829 --> 00:35:40,320

specialist rex walheim rex tell me

895

00:35:43,990 --> 00:35:41,839

students from all over will get a chance

896

00:35:46,470 --> 00:35:44,000

to see you in space what do you have to

897

00:35:48,150 --> 00:35:46,480

tell them how do you inspire them to

898

00:35:51,750 --> 00:35:48,160

look to the future how did they get in

899

00:35:55,510 --> 00:35:53,829

well for me i would tell them is as

900

00:35:57,030 --> 00:35:55,520

number one work hard especially in math

901  
00:35:59,030 --> 00:35:57,040  
and science and number two have

902  
00:36:00,550 --> 00:35:59,040  
persistence because as hard as you work

903  
00:36:02,150 --> 00:36:00,560  
it's going to take some persistence

904  
00:36:03,910 --> 00:36:02,160  
because i can remember as a kid sitting

905  
00:36:05,190 --> 00:36:03,920  
in my backyard in san carlos looking up

906  
00:36:06,950 --> 00:36:05,200  
at the airplanes that were circling

907  
00:36:09,270 --> 00:36:06,960  
around to go land in san francisco and

908  
00:36:11,270 --> 00:36:09,280  
thinking wow i hope i get a chance to to

909  
00:36:13,430 --> 00:36:11,280  
fly someday and to be right here with my

910  
00:36:16,230 --> 00:36:13,440  
crewmates and we're flying over uh over

911  
00:36:18,069 --> 00:36:16,240  
the earth at 200 miles up at 17 500

912  
00:36:19,750 --> 00:36:18,079  
miles an hour it's it's really a dream

913  
00:36:21,910 --> 00:36:19,760

come true and it's another i mean just

914

00:36:24,230 --> 00:36:21,920

the the simple things like floating and

915

00:36:25,750 --> 00:36:24,240

and flying in in zero gravity is just

916

00:36:26,390 --> 00:36:25,760

absolutely amazing everybody dreams

917

00:36:29,750 --> 00:36:26,400

about

918

00:36:31,109 --> 00:36:29,760

here you can actually do it so it's

919

00:36:35,990 --> 00:36:31,119

it's absolutely amazing and your dreams

920

00:36:40,870 --> 00:36:38,710

atlantis iss this is houston acr that

921

00:36:43,109 --> 00:36:40,880

concludes questions from ames research

922

00:36:53,349 --> 00:36:43,119

center please stand by for a voice check

923

00:36:57,589 --> 00:36:54,470

uh jaxapao

924

00:37:01,190 --> 00:36:57,599

is uh this is jacksonville how do you

925

00:37:01,200 --> 00:37:18,870

we read you loud and clear how me

926  
00:37:23,349 --> 00:37:21,430  
which everyone is on board i believe and

927  
00:37:25,910 --> 00:37:23,359  
that the space shuttle has made major

928  
00:37:27,910 --> 00:37:25,920  
contribution to building the iss and

929  
00:37:30,230 --> 00:37:27,920  
also um the shuttle has continued to

930  
00:37:32,710 --> 00:37:30,240  
carry the japanese astronauts and the

931  
00:37:34,950 --> 00:37:32,720  
space shuttle will be ending and

932  
00:37:36,390 --> 00:37:34,960  
retiring this time what is your feeling

933  
00:37:46,630 --> 00:37:36,400  
about the retirement of the space

934  
00:37:46,640 --> 00:37:53,430  
um

935  
00:37:58,390 --> 00:37:55,510  
dreams and also a challenging spirit to

936  
00:38:01,349 --> 00:37:58,400  
japan as well as the japanese people

937  
00:38:05,750 --> 00:38:03,589  
and for the japanese astronauts who are

938  
00:38:07,670 --> 00:38:05,760

on board the iss um

939

00:38:09,349 --> 00:38:07,680

i believe um that the fact that i

940

00:38:11,030 --> 00:38:09,359

personally was able to welcome the crew

941

00:38:13,349 --> 00:38:11,040

on board the last space shuttle was

942

00:38:15,750 --> 00:38:13,359

something of a great honor for me it is

943

00:38:19,270 --> 00:38:15,760

regretful that the space shuttle will be

944

00:38:21,349 --> 00:38:19,280

retiring but i believe that this is a

945

00:38:23,670 --> 00:38:21,359

step towards the future programs it will

946

00:38:25,349 --> 00:38:23,680

be a new starting point for future

947

00:38:26,390 --> 00:38:25,359

programs

948

00:38:38,390 --> 00:38:26,400

i

949

00:38:40,790 --> 00:38:38,400

to astronaut

950

00:38:42,630 --> 00:38:40,800

well i'm reading your twitter messages

951  
00:38:44,870 --> 00:38:42,640  
all the time well you've said that

952  
00:38:46,790 --> 00:38:44,880  
you're going accustomed to zero gravity

953  
00:38:48,950 --> 00:38:46,800  
and have you experienced any changes in

954  
00:38:52,069 --> 00:38:48,960  
your physical condition or your mental

955  
00:38:53,750 --> 00:38:52,079  
condition something interesting and also

956  
00:38:56,150 --> 00:38:53,760  
um could you talk about it from a

957  
00:39:06,150 --> 00:38:56,160  
doctor's perspective as well as an

958  
00:39:09,990 --> 00:39:07,510  
it's very difficult to make a

959  
00:39:12,550 --> 00:39:10,000  
distinction there but um first um

960  
00:39:22,550 --> 00:39:12,560  
what i feel interesting is that um

961  
00:39:26,790 --> 00:39:25,349  
now where your legs are located you feel

962  
00:39:32,790 --> 00:39:26,800  
like it's the floor

963  
00:39:35,589 --> 00:39:34,550

where your feet are located feel like

964

00:39:37,910 --> 00:39:35,599

the floor

965

00:39:39,829 --> 00:39:37,920

so um i think that when we say the

966

00:39:41,670 --> 00:39:39,839

upside and downside is

967

00:39:43,589 --> 00:39:41,680

i'm just for the sake of convenience in

968

00:39:45,910 --> 00:39:43,599

outer space i think it's just in

969

00:39:49,190 --> 00:39:45,920

relative terms that you feel that you're

970

00:39:52,069 --> 00:39:49,200

upside down or the other way around

971

00:39:53,910 --> 00:39:52,079

i don't know from nhk um astro furukawa

972

00:40:01,670 --> 00:39:53,920

another thing about the shuttle

973

00:40:08,390 --> 00:40:03,190

don't you wish that you had been on

974

00:40:08,400 --> 00:40:22,309

um

975

00:40:26,630 --> 00:40:24,950

and i wish i had been able to travel on

976

00:40:28,630 --> 00:40:26,640

the space shuttle but not everything

977

00:40:31,510 --> 00:40:28,640

goes as you wish in life

978

00:40:33,109 --> 00:40:31,520

but then at present i'm very satisfied

979

00:40:34,550 --> 00:40:33,119

because um there are three reasons for

980

00:40:35,910 --> 00:40:34,560

this and first

981

00:40:39,190 --> 00:40:35,920

is that

982

00:40:43,670 --> 00:40:39,200

the soyuz this is a very highly reliable

983

00:40:47,109 --> 00:40:43,680

russian space vehicle and um

984

00:40:49,349 --> 00:40:47,119

i was able to board the series and

985

00:40:52,150 --> 00:40:49,359

arrive at the iss and to make

986

00:40:55,349 --> 00:40:52,160

contributions to the iss activities and

987

00:40:57,589 --> 00:40:55,359

the second is that i as a japanese

988

00:41:00,230 --> 00:40:57,599

astronaut was able to welcome the last

989

00:41:03,910 --> 00:41:00,240

crew on board the space shuttle and also

990

00:41:11,589 --> 00:41:07,510

i believe that i was the first stem to

991

00:41:14,950 --> 00:41:11,599

encounter atlantis and also um

992

00:41:17,109 --> 00:41:14,960

chris and ferguson the commander

993

00:41:19,270 --> 00:41:17,119

has made my wish come true

994

00:41:21,990 --> 00:41:19,280

and he let me sit in his commander's

995

00:41:28,230 --> 00:41:22,000

seat and take a photo so um that was a

996

00:41:32,309 --> 00:41:29,990

news question

997

00:41:35,270 --> 00:41:32,319

dr furukawa this is about the month

998

00:41:37,030 --> 00:41:35,280

since you have left

999

00:41:40,630 --> 00:41:37,040

the ground and probably you have

1000

00:41:42,230 --> 00:41:40,640

opportunity to look at the disaster head

1001  
00:41:44,390 --> 00:41:42,240  
area from is

1002  
00:42:01,670 --> 00:41:44,400  
if you have any message to those people

1003  
00:42:06,470 --> 00:42:03,910  
tohoku area when i was a high school

1004  
00:42:08,630 --> 00:42:06,480  
student and i was very moved by those

1005  
00:42:10,069 --> 00:42:08,640  
people who are very friendly

1006  
00:42:12,150 --> 00:42:10,079  
uh people there

1007  
00:42:14,309 --> 00:42:12,160  
so i have very good memory

1008  
00:42:16,150 --> 00:42:14,319  
of visiting there and four months have

1009  
00:42:18,950 --> 00:42:16,160  
passed but i believe that things are

1010  
00:42:21,109 --> 00:42:18,960  
still very difficult for them but

1011  
00:42:22,630 --> 00:42:21,119  
what i can say is that if we continue to

1012  
00:42:26,710 --> 00:42:22,640  
do

1013  
00:42:29,190 --> 00:42:26,720

would be better than today

1014

00:42:31,109 --> 00:42:29,200

and also

1015

00:42:33,829 --> 00:42:31,119

all the colleagues from here

1016

00:42:35,910 --> 00:42:33,839

from us and russia everyone

1017

00:42:38,309 --> 00:42:35,920

uh very much concerned and they they

1018

00:42:41,349 --> 00:42:38,319

give good wishes and not only us and

1019

00:42:44,150 --> 00:42:41,359

russia but all the people in the world

1020

00:42:45,910 --> 00:42:44,160

uh cheering up and trying to be of

1021

00:42:48,470 --> 00:42:45,920

support so i hope that

1022

00:42:50,630 --> 00:42:48,480

keep on trying japan there's a question

1023

00:42:54,069 --> 00:42:50,640

to mr furukawa again from your mute

1024

00:42:56,829 --> 00:42:54,079

newspaper you had worked very hard for

1025

00:42:59,510 --> 00:42:56,839

the last 12 years and

1026  
00:43:01,589 --> 00:42:59,520  
you finally came to the space and did

1027  
00:43:03,270 --> 00:43:01,599  
you encounter anything that you didn't

1028  
00:43:23,670 --> 00:43:03,280  
expect

1029  
00:43:29,270 --> 00:43:26,870  
surprise was that the things do not stay

1030  
00:43:31,910 --> 00:43:29,280  
on the surface because if it is on the

1031  
00:43:33,589 --> 00:43:31,920  
ground if we put something of objects on

1032  
00:43:36,390 --> 00:43:33,599  
table it will stay there but it will

1033  
00:43:46,390 --> 00:43:36,400  
flow out in space so

1034  
00:43:52,630 --> 00:43:49,190  
so that was rather

1035  
00:43:54,870 --> 00:43:52,640  
things that i was not trained enough in

1036  
00:43:56,790 --> 00:43:54,880  
on the earth so i'm learning it

1037  
00:44:00,790 --> 00:43:56,800  
in situ here

1038  
00:44:03,030 --> 00:44:00,800

uh i'm awa from uc news space news from

1039

00:44:05,349 --> 00:44:03,040

tv tokyo you

1040

00:44:06,390 --> 00:44:05,359

already mentioned that

1041

00:44:08,470 --> 00:44:06,400

but

1042

00:44:11,510 --> 00:44:08,480

i understand that you visited space

1043

00:44:13,349 --> 00:44:11,520

chatter to hear wake up call so you were

1044

00:44:14,950 --> 00:44:13,359

you are now in space and you visited

1045

00:44:17,670 --> 00:44:14,960

space chateau

1046

00:44:19,510 --> 00:44:17,680

and uh how did you feel

1047

00:44:43,510 --> 00:44:19,520

listening to wake up called by elton

1048

00:44:48,230 --> 00:44:45,910

it's made very well and it's not

1049

00:44:51,349 --> 00:44:48,240

actually very much like a training

1050

00:44:53,589 --> 00:44:51,359

facility in houston so it was exactly

1051

00:44:56,630 --> 00:44:53,599

the same environment as i had been

1052

00:44:59,349 --> 00:44:56,640

trained in houston i was very moved to

1053

00:45:01,589 --> 00:44:59,359

hear the wake up call and music by elton

1054

00:45:03,030 --> 00:45:01,599

john

1055

00:45:05,910 --> 00:45:03,040

and i was very grateful for that

1056

00:45:08,790 --> 00:45:05,920

opportunity it was that was given to me

1057

00:45:10,710 --> 00:45:08,800

dr furukawa

1058

00:45:12,150 --> 00:45:10,720

i would like to hear

1059

00:45:13,750 --> 00:45:12,160

about uh

1060

00:45:14,870 --> 00:45:13,760

world cup

1061

00:45:18,069 --> 00:45:14,880

ladies

1062

00:45:20,710 --> 00:45:18,079

women's uh

1063

00:45:23,270 --> 00:45:20,720

you have a lot of american u.s friends

1064

00:45:33,750 --> 00:45:23,280

around here but what do you

1065

00:45:37,990 --> 00:45:35,910

well it might be difficult to answer to

1066

00:45:40,309 --> 00:45:38,000

your question in this environment but

1067

00:45:43,030 --> 00:45:40,319

what i can say is that

1068

00:45:44,870 --> 00:45:43,040

all the athletes supporters all the

1069

00:45:47,270 --> 00:45:44,880

people who

1070

00:45:48,630 --> 00:45:47,280

consent there i hope that everyone would

1071

00:45:53,109 --> 00:45:48,640

do their best

1072

00:46:01,109 --> 00:45:56,390

atlantis iss this is houston acr thank

1073

00:46:06,150 --> 00:46:03,349

thank you media at johnson space center

1074

00:46:07,910 --> 00:46:06,160

kennedy space center nasa headquarters

1075

00:46:10,790 --> 00:46:07,920

marshall space flight center ames

1076

00:46:12,870 --> 00:46:10,800

research center and in japan atlantis