



1
00:00:08,150 --> 00:00:03,429
station this is houston are you ready

2
00:00:13,910 --> 00:00:11,430
houston we are ready for the event

3
00:00:15,829 --> 00:00:13,920
abc news radio this is mission control

4
00:00:21,670 --> 00:00:15,839
houston please call station for a voice

5
00:00:27,990 --> 00:00:23,670
station this is abc news radio how do

6
00:00:31,189 --> 00:00:29,429
good morning vic we hear you loud and

7
00:00:33,350 --> 00:00:31,199
clear how about us

8
00:00:38,470 --> 00:00:33,360
super good morning mike good morning ron

9
00:00:41,110 --> 00:00:39,990
well it's good to hear you we wish we

10
00:00:43,350 --> 00:00:41,120
could see you

11
00:00:45,750 --> 00:00:43,360
but uh hey we're uh right now we just

12
00:00:47,190 --> 00:00:45,760
entered into orbital sunrise orbital

13
00:00:48,150 --> 00:00:47,200

daytime up here right over the great

14

00:00:50,950 --> 00:00:48,160

lakes

15

00:00:54,150 --> 00:00:50,960

about 230 miles up

16

00:00:58,950 --> 00:00:56,709

it's vic ratner let me ask you without

17

00:01:01,430 --> 00:00:58,960

the space shuttle to deliver how do you

18

00:01:06,630 --> 00:01:01,440

handle your shopping list for supplies

19

00:01:11,590 --> 00:01:09,350

well uh one of the ways we did is is to

20

00:01:13,429 --> 00:01:11,600

you know think ahead and you know make

21

00:01:15,109 --> 00:01:13,439

very very good use of our last shuttle

22

00:01:16,870 --> 00:01:15,119

missions that we had to bring up just a

23

00:01:19,270 --> 00:01:16,880

tremendous amount of supplies to really

24

00:01:20,950 --> 00:01:19,280

get us postured for the next 10 years

25

00:01:22,630 --> 00:01:20,960

up here but we also have other vehicles

26
00:01:24,710 --> 00:01:22,640
you know this is the international space

27
00:01:26,710 --> 00:01:24,720
station so we have

28
00:01:28,789 --> 00:01:26,720
vehicles from other nations

29
00:01:31,270 --> 00:01:28,799
we have a japanese cargo ship we have a

30
00:01:33,109 --> 00:01:31,280
european cargo ship and the russian

31
00:01:37,109 --> 00:01:33,119
cargo ships that all have the capability

32
00:01:46,389 --> 00:01:38,630
i'm still not sure what you do if you

33
00:01:50,469 --> 00:01:48,389
yeah vic it's a good question

34
00:01:53,910 --> 00:01:50,479
when the shuttle departed we they left

35
00:01:55,670 --> 00:01:53,920
us with about a year's worth of food

36
00:01:57,270 --> 00:01:55,680
that presents more of a storage problem

37
00:01:59,510 --> 00:01:57,280
than a shortage problem at least for the

38
00:02:01,109 --> 00:01:59,520

short term if we drink up all of a

39

00:02:02,709 --> 00:02:01,119

certain flavor of coffee we'll get used

40

00:02:05,030 --> 00:02:02,719

to other kinds

41

00:02:07,749 --> 00:02:05,040

and we are putting together our list of

42

00:02:09,510 --> 00:02:07,759

things for next available space on ships

43

00:02:13,270 --> 00:02:09,520

that come up if a certain piece of

44

00:02:16,309 --> 00:02:14,949

mike how do you compare what you're

45

00:02:18,470 --> 00:02:16,319

doing to

46

00:02:19,270 --> 00:02:18,480

scientists at other remote outposts such

47

00:02:26,229 --> 00:02:19,280

as

48

00:02:30,390 --> 00:02:28,630

i'd love to go visit those places but in

49

00:02:32,949 --> 00:02:30,400

many ways it's the same

50

00:02:35,910 --> 00:02:32,959

we're in a remote location we are not

51
00:02:37,990 --> 00:02:35,920
the experts in what we do there's a wide

52
00:02:39,589 --> 00:02:38,000
range of different kinds of experiments

53
00:02:41,350 --> 00:02:39,599
uh that we're involved with and we're

54
00:02:43,190 --> 00:02:41,360
not the experts we get involved with

55
00:02:45,830 --> 00:02:43,200
them we talk to them they see video of

56
00:02:47,670 --> 00:02:45,840
what we are doing and so and so the

57
00:02:49,830 --> 00:02:47,680
results are going down to the ground and

58
00:02:52,309 --> 00:02:49,840
we have them you know literally looking

59
00:02:55,110 --> 00:02:52,319
over our shoulder as so what are the

60
00:02:57,190 --> 00:02:55,120
voice actuated

61
00:03:00,390 --> 00:02:57,200
robots if you will doing the work for

62
00:03:04,070 --> 00:03:02,550
can you give americans an idea

63
00:03:05,910 --> 00:03:04,080

what you're doing up there what the

64

00:03:11,830 --> 00:03:05,920

scientists are doing up there that are

65

00:03:14,949 --> 00:03:13,270

hey that's a really really good question

66

00:03:16,309 --> 00:03:14,959

you know we've had a continuous human

67

00:03:18,470 --> 00:03:16,319

presence onboard the international space

68

00:03:20,149 --> 00:03:18,480

station for over a decade and over the

69

00:03:22,149 --> 00:03:20,159

course of that time we have conducted

70

00:03:24,390 --> 00:03:22,159

over 600 experiments on board and many

71

00:03:26,149 --> 00:03:24,400

of those experiments simply cannot be

72

00:03:27,509 --> 00:03:26,159

conducted anywhere else this is a very

73

00:03:29,509 --> 00:03:27,519

very unique environment this

74

00:03:31,190 --> 00:03:29,519

microgravity environment and it

75

00:03:33,430 --> 00:03:31,200

simplifies a lot of the science that

76

00:03:35,750 --> 00:03:33,440

we're doing up here and we've had

77

00:03:37,990 --> 00:03:35,760

a lot of work in designing uh you know

78

00:03:40,390 --> 00:03:38,000

experiments to look at new materials new

79

00:03:42,630 --> 00:03:40,400

medicines uh studying the human body

80

00:03:45,830 --> 00:03:42,640

studying uh the effects of things like

81

00:03:48,390 --> 00:03:45,840

osteoporosis we've had breakthroughs in

82

00:03:49,270 --> 00:03:48,400

vaccine development salmonella comes to

83

00:03:51,430 --> 00:03:49,280

mind

84

00:03:53,509 --> 00:03:51,440

we're looking at ways to have better

85

00:03:55,830 --> 00:03:53,519

fuel efficiency better combustion

86

00:03:57,509 --> 00:03:55,840

reactions better hazardous waste removal

87

00:03:59,750 --> 00:03:57,519

the list goes on and on and on you know

88

00:04:02,710 --> 00:03:59,760

we've uh the the objective of our

89

00:04:04,390 --> 00:04:02,720

science is to you know uh enable humans

90

00:04:07,429 --> 00:04:04,400

to go further into the solar system but

91

00:04:09,110 --> 00:04:07,439

by doing that we are also looking at how

92

00:04:11,030 --> 00:04:09,120

you know ways to improve life on earth

93

00:04:13,350 --> 00:04:11,040

and uh you know like i said this is a

94

00:04:15,030 --> 00:04:13,360

very very unique place uh the the

95

00:04:17,349 --> 00:04:15,040

research being conducted up here simply

96

00:04:19,349 --> 00:04:17,359

can't be done anywhere else and i think

97

00:04:21,909 --> 00:04:19,359

you know the history is going to show

98

00:04:23,670 --> 00:04:21,919

that this is an incredible global asset

99

00:04:25,590 --> 00:04:23,680

that the research being conducted on

100

00:04:27,670 --> 00:04:25,600

board the international space station is

101
00:04:29,030 --> 00:04:27,680
it really is improving the world and and

102
00:04:30,550 --> 00:04:29,040
if you give me about another three or

103
00:04:33,110 --> 00:04:30,560
four hours i could i could tell you all

104
00:04:35,430 --> 00:04:33,120
the other uh breakthroughs and other

105
00:04:38,150 --> 00:04:35,440
science-related activities that uh that

106
00:04:39,990 --> 00:04:38,160
we're conducting up here

107
00:04:42,070 --> 00:04:40,000
i promise to come back to you on that at

108
00:04:44,469 --> 00:04:42,080
another interview

109
00:04:46,790 --> 00:04:44,479
for now you're also learning about long

110
00:04:48,950 --> 00:04:46,800
duration space flight the kind of

111
00:04:50,790 --> 00:04:48,960
information you'd need to go to mars

112
00:04:52,550 --> 00:04:50,800
what are you finding out about what long

113
00:04:59,350 --> 00:04:52,560

duration space flight

114

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

a big part of what we're doing up here

115

00:05:05,909 --> 00:05:03,120

is serving as the guinea pigs ourselves

116

00:05:07,909 --> 00:05:05,919

for bone loss muscle loss and trying

117

00:05:11,430 --> 00:05:07,919

different medications different exercise

118

00:05:13,029 --> 00:05:11,440

regimens to uh to maintain our health

119

00:05:14,790 --> 00:05:13,039

humans will go to mars someday and when

120

00:05:16,390 --> 00:05:14,800

they get there it's it's a long trip to

121

00:05:17,749 --> 00:05:16,400

get there and when they do arrive they

122

00:05:20,310 --> 00:05:17,759

need to be healthy enough and strong

123

00:05:22,550 --> 00:05:20,320

enough that they can get to work

124

00:05:24,230 --> 00:05:22,560

without the benefit of doctors and other

125

00:05:26,070 --> 00:05:24,240

support personnel that are waiting for

126

00:05:29,749 --> 00:05:26,080

them and so we serve as those guinea

127

00:05:31,909 --> 00:05:29,759

pigs uh and uh and we can do that in the

128

00:05:34,629 --> 00:05:31,919

six month time frame that we're up here

129

00:05:36,950 --> 00:05:34,639

which is uh close to this eight month

130

00:05:39,510 --> 00:05:36,960

type time frame it takes to get to mars

131

00:05:41,350 --> 00:05:39,520

one way

132

00:05:42,469 --> 00:05:41,360

which one of you is trained as the outer

133

00:05:50,310 --> 00:05:42,479

space

134

00:05:53,749 --> 00:05:51,749

well we're both trained but we're

135

00:05:55,990 --> 00:05:53,759

fortunate in that we have an actual

136

00:05:59,029 --> 00:05:56,000

medical doctor on board satoshi furkawa

137

00:06:02,230 --> 00:05:59,039

from uh the japanese space agency so um

138

00:06:04,629 --> 00:06:02,240

but uh we have i think three uh

139

00:06:06,390 --> 00:06:04,639

three plus a medical doctor three uh

140

00:06:07,590 --> 00:06:06,400

crew medical officers on board in the

141

00:06:10,710 --> 00:06:07,600

case we need

142

00:06:13,670 --> 00:06:12,070

let me ask you one other thing do you

143

00:06:15,189 --> 00:06:13,680

keep up with the news i mean do you know

144

00:06:18,070 --> 00:06:15,199

about the stock market cratering

145

00:06:23,510 --> 00:06:18,080

yesterday did can you check your 401 k

146

00:06:27,430 --> 00:06:25,270

we do get the news a lot of it's a

147

00:06:29,430 --> 00:06:27,440

little bit delayed and we heard a little

148

00:06:31,110 --> 00:06:29,440

bit about the rumblings from wall street

149

00:06:32,950 --> 00:06:31,120

yesterday and like the rest of the

150

00:06:35,189 --> 00:06:32,960

country the rest of the world

151

00:06:37,270 --> 00:06:35,199

we're hoping that that things will turn

152

00:06:39,909 --> 00:06:37,280

around now that we've kind of chosen a

153

00:06:42,070 --> 00:06:39,919

direction at the national level and and

154

00:06:43,670 --> 00:06:42,080

are on a path there

155

00:06:47,189 --> 00:06:43,680

you do have internet up there don't you

156

00:06:52,870 --> 00:06:50,150

uh we have internet but it's it's a very

157

00:06:55,189 --> 00:06:52,880

uh it's very slow and so it's it's about

158

00:06:57,909 --> 00:06:55,199

like the old dial up used to be and uh

159

00:07:00,230 --> 00:06:57,919

only available at certain times and so

160

00:07:02,230 --> 00:07:00,240

you know we don't you don't get off on

161

00:07:04,390 --> 00:07:02,240

to the internet often to check news and

162

00:07:06,550 --> 00:07:04,400

stuff frankly it's a little too busy to

163

00:07:12,950 --> 00:07:06,560

do much of that

164

00:07:17,589 --> 00:07:15,589

they shipped the the music up to us and

165

00:07:19,510 --> 00:07:17,599

uh and ship movies up to us but no we

166

00:07:21,510 --> 00:07:19,520

don't we don't tap itunes or streaming

167

00:07:23,270 --> 00:07:21,520

movies from here if we have a request

168

00:07:25,749 --> 00:07:23,280

the ground takes care of it though so we

169

00:07:28,070 --> 00:07:25,759

have a few of our favorite news programs

170

00:07:29,909 --> 00:07:28,080

and tv programs and things like that

171

00:07:32,710 --> 00:07:29,919

available it's just uh when we watch the

172

00:07:34,790 --> 00:07:32,720

news it's a few days old

173

00:07:36,790 --> 00:07:34,800

we're getting an idea from you about

174

00:07:38,629 --> 00:07:36,800

what life is like up there

175

00:07:41,990 --> 00:07:38,639

is there a time during the day when the

176
00:07:43,990 --> 00:07:42,000
whole crew gets together and everybody

177
00:07:48,869 --> 00:07:44,000
sits around one module in exchange

178
00:07:54,390 --> 00:07:51,830
well we try as often as we can to get to

179
00:07:56,469 --> 00:07:54,400
get together for dinner we don't always

180
00:07:58,150 --> 00:07:56,479
we're not always able to do that

181
00:08:00,309 --> 00:07:58,160
just you know sometimes things get too

182
00:08:02,150 --> 00:08:00,319
busy but whenever we can we do that and

183
00:08:03,749 --> 00:08:02,160
that's uh that's always nice and uh we

184
00:08:05,990 --> 00:08:03,759
we tend to alternate you know we have

185
00:08:07,749 --> 00:08:06,000
two areas on the station where we could

186
00:08:09,749 --> 00:08:07,759
have meals one is in the u.s segment and

187
00:08:11,350 --> 00:08:09,759
one's in the in the russian segment and

188
00:08:13,350 --> 00:08:11,360

we tend to alternate back and forth

189

00:08:16,710 --> 00:08:13,360

between where we share those meals and

190

00:08:18,309 --> 00:08:16,720

that's always a wonderful experience

191

00:08:20,550 --> 00:08:18,319

last question on that line do you

192

00:08:22,309 --> 00:08:20,560

exchange foods what

193

00:08:23,909 --> 00:08:22,319

what does the japanese diet have that

194

00:08:28,629 --> 00:08:23,919

you like what does the russian diet have

195

00:08:33,430 --> 00:08:31,350

we enjoy exchanging foods we

196

00:08:36,070 --> 00:08:33,440

because satoshi's up here with us of

197

00:08:38,070 --> 00:08:36,080

course we've got you know extra

198

00:08:39,909 --> 00:08:38,080

rice and other rice dishes which are you

199

00:08:42,230 --> 00:08:39,919

know the japanese as well as sauces and

200

00:08:44,870 --> 00:08:42,240

stuff and we enjoy those we enjoy the

201
00:08:46,870 --> 00:08:44,880
russian foods also theirs come up i mean

202
00:08:48,870 --> 00:08:46,880
different a lot more of their food is in

203
00:08:51,110 --> 00:08:48,880
cans which we have very little of in the

204
00:08:53,829 --> 00:08:51,120
american diet and i think everybody

205
00:08:56,630 --> 00:08:53,839
enjoys sharing some of the us foods too

206
00:08:58,870 --> 00:08:56,640
so that helps break up the diet if you

207
00:09:00,070 --> 00:08:58,880
were just eating one source of food i

208
00:09:02,070 --> 00:09:00,080
think it would get a little bit

209
00:09:04,310 --> 00:09:02,080
monotonous but as it is there's variety

210
00:09:07,990 --> 00:09:04,320
and and that helps kind of push us

211
00:09:09,590 --> 00:09:08,000
toward sharing the mealtimes together

212
00:09:14,550 --> 00:09:09,600
thanks a lot good to talk to you we're

213
00:09:14,560 --> 00:09:18,470

thanks vic it was great talking to you

214

00:09:22,870 --> 00:09:20,389

stationed this is houston acr that

215

00:09:23,829 --> 00:09:22,880

concludes the abc news radio portion of

216

00:09:25,790 --> 00:09:23,839

the event

217

00:09:28,870 --> 00:09:25,800

please stand by for a voice check from

218

00:09:31,829 --> 00:09:28,880

wofl tv

219

00:09:37,829 --> 00:09:31,839

city says if they don't approve it

220

00:09:42,389 --> 00:09:40,389

we hear you loud and clear how about us

221

00:09:44,470 --> 00:09:42,399

to balance the budget

222

00:09:47,030 --> 00:09:44,480

they have not made any cuts and

223

00:09:50,389 --> 00:09:47,040

personnel in five years they've raised

224

00:09:52,630 --> 00:09:50,399

taxes at five years the economy cannot

225

00:09:53,670 --> 00:09:52,640

take this pressure any number is too

226
00:09:57,430 --> 00:09:53,680
much

227
00:10:00,710 --> 00:09:57,440
it to vote by the affected residents

228
00:10:03,430 --> 00:10:00,720
just as the city charter called

229
00:10:05,829 --> 00:10:03,440
rssc is approved it would take effect in

230
00:10:07,509 --> 00:10:05,839
2012. all right flash forward to later

231
00:10:09,750 --> 00:10:07,519
on this morning nasa is set to launch

232
00:10:12,069 --> 00:10:09,760
the juno spacecraft to explore jupiter

233
00:10:14,069 --> 00:10:12,079
that launch window is from 11 34 this

234
00:10:16,550 --> 00:10:14,079
morning until 12.

235
00:10:18,470 --> 00:10:16,560
30 seconds away crew 30 seconds just

236
00:10:20,150 --> 00:10:18,480
planted in the solar system and it's a

237
00:10:22,630 --> 00:10:20,160
long way away it's going to take the

238
00:10:24,949 --> 00:10:22,640

spacecraft five years to get there nasa

239

00:10:28,069 --> 00:10:24,959

officials say understanding jupiter is

240

00:10:29,990 --> 00:10:28,079

the key to understanding the cosmos also

241

00:10:32,069 --> 00:10:30,000

happening right now six men at the

242

00:10:33,990 --> 00:10:32,079

international space station are working

243

00:10:36,310 --> 00:10:34,000

hard to keep the orbiting laboratory

244

00:10:38,069 --> 00:10:36,320

running smoothly and we are lucky enough

245

00:10:40,150 --> 00:10:38,079

to speak with two flight engineers

246

00:10:41,910 --> 00:10:40,160

aboard the iss right now this is going

247

00:10:44,470 --> 00:10:41,920

to be fun hopefully there's not too much

248

00:10:47,030 --> 00:10:44,480

of a delay when we're talking what 220

249

00:10:49,030 --> 00:10:47,040

miles up in space flight engineers mike

250

00:10:51,509 --> 00:10:49,040

fossum and ron garan are joining us now

251
00:10:53,590 --> 00:10:51,519
to talk guys uh you know what we can't

252
00:10:56,310 --> 00:10:53,600
see you quite yet but can you explain

253
00:11:01,430 --> 00:10:56,320
first of all exactly what you're doing

254
00:11:06,310 --> 00:11:04,150
well hey john um well right now we are

255
00:11:08,310 --> 00:11:06,320
like you said traveling 220 miles up and

256
00:11:09,990 --> 00:11:08,320
we're about over philadelphia we just a

257
00:11:13,430 --> 00:11:10,000
few minutes ago pass into orbital

258
00:11:15,750 --> 00:11:13,440
daytime and uh you know we right now

259
00:11:17,190 --> 00:11:15,760
are in the era of utilization of the

260
00:11:19,670 --> 00:11:17,200
international space station you know

261
00:11:21,350 --> 00:11:19,680
construction is complete and now we are

262
00:11:22,550 --> 00:11:21,360
in the process of really reaping the

263
00:11:24,870 --> 00:11:22,560

benefits of this

264

00:11:26,710 --> 00:11:24,880

investment that we have in this uh this

265

00:11:28,069 --> 00:11:26,720

amazing orbital research facility so

266

00:11:29,990 --> 00:11:28,079

there is a great deal of science being

267

00:11:31,030 --> 00:11:30,000

conducted on board every day throughout

268

00:11:34,790 --> 00:11:31,040

the space station and the different

269

00:11:38,630 --> 00:11:36,710

now i've read that the russians are on

270

00:11:40,470 --> 00:11:38,640

one side or some of the uh

271

00:11:42,310 --> 00:11:40,480

the foreign scientists are on one side

272

00:11:44,069 --> 00:11:42,320

of the space station and the americans

273

00:11:45,590 --> 00:11:44,079

on the other is that true is it is it

274

00:11:49,990 --> 00:11:45,600

divided like that where each side is

275

00:11:54,389 --> 00:11:52,150

well the modules i mean we have russian

276

00:11:57,030 --> 00:11:54,399

modules and we have us modules and

277

00:11:58,550 --> 00:11:57,040

japanese and european we have a lot of

278

00:12:00,710 --> 00:11:58,560

different modules but we have one space

279

00:12:01,829 --> 00:12:00,720

station and we we operate as a single

280

00:12:03,910 --> 00:12:01,839

crew

281

00:12:05,430 --> 00:12:03,920

and we have different investigators on

282

00:12:06,870 --> 00:12:05,440

the ground that have uh their

283

00:12:08,310 --> 00:12:06,880

experiments going on in different parts

284

00:12:10,069 --> 00:12:08,320

of the space station

285

00:12:11,509 --> 00:12:10,079

it tends to be that the russians are

286

00:12:14,310 --> 00:12:11,519

operating uh you know russian

287

00:12:16,629 --> 00:12:14,320

experiments and the the uh other crew

288

00:12:18,790 --> 00:12:16,639

members are are operating uh the

289

00:12:21,829 --> 00:12:18,800

experiments from from europe or japan or

290

00:12:23,750 --> 00:12:21,839

the us so uh it you know just from a a

291

00:12:25,030 --> 00:12:23,760

logistics point of view we're we're not

292

00:12:27,110 --> 00:12:25,040

separated but we have different

293

00:12:30,710 --> 00:12:27,120

facilities uh but we are we have one

294

00:12:33,910 --> 00:12:32,230

and this is up for either one of you

295

00:12:35,430 --> 00:12:33,920

guys a recent report by tribune

296

00:12:36,870 --> 00:12:35,440

newspaper says if something were to

297

00:12:38,550 --> 00:12:36,880

happen to the soyuz where it was not

298

00:12:40,550 --> 00:12:38,560

able to get back and forth between earth

299

00:12:42,790 --> 00:12:40,560

and the iss there's not a formal

300

00:12:47,910 --> 00:12:42,800

contingency plan how would you guys get

301
00:12:50,870 --> 00:12:48,870
when we

302
00:12:52,389 --> 00:12:50,880
yeah our ride home is the soyuz

303
00:12:53,430 --> 00:12:52,399
spacecraft that's the only option that

304
00:12:55,829 --> 00:12:53,440
we have

305
00:12:57,829 --> 00:12:55,839
we will ride home on the the ships that

306
00:12:59,430 --> 00:12:57,839
brought us up here and so that's that's

307
00:13:01,430 --> 00:12:59,440
not in question

308
00:13:03,509 --> 00:13:01,440
if there was an interruption in soyuz

309
00:13:05,269 --> 00:13:03,519
service for new launches there is a

310
00:13:08,550 --> 00:13:05,279
remote possibility that the space

311
00:13:11,430 --> 00:13:08,560
station uh would go unmanned there's a a

312
00:13:13,829 --> 00:13:11,440
an on-orbit lifetime limit to the soyuz

313
00:13:16,949 --> 00:13:13,839

of about i don't remember exactly it's

314

00:13:18,710 --> 00:13:16,959

about 200 220 days so that those ships

315

00:13:20,870 --> 00:13:18,720

the ones we came up in need to go home

316

00:13:22,230 --> 00:13:20,880

so ronnie will be going home in early

317

00:13:24,230 --> 00:13:22,240

september

318

00:13:27,590 --> 00:13:24,240

as planned and i'll be going home in

319

00:13:31,190 --> 00:13:29,590

now ron you're somewhat of a local guy

320

00:13:33,269 --> 00:13:31,200

right you have some florida connections

321

00:13:34,470 --> 00:13:33,279

and some family in this area you may not

322

00:13:36,230 --> 00:13:34,480

get to talk to him that often do you

323

00:13:40,310 --> 00:13:36,240

want to say hi to any family members

324

00:13:46,470 --> 00:13:42,550

yeah just to say hi to my mom and uh

325

00:13:48,470 --> 00:13:46,480

step dad in port st lucie and you know

326

00:13:50,230 --> 00:13:48,480

all astronauts have ties to the florida

327

00:13:51,509 --> 00:13:50,240

uh you know area you know with the

328

00:13:53,030 --> 00:13:51,519

kennedy space center and everything and

329

00:13:55,750 --> 00:13:53,040

you know we have a very very special

330

00:13:57,829 --> 00:13:55,760

place in our heart for for that for that

331

00:13:59,670 --> 00:13:57,839

you know amazing uh national asset the

332

00:14:01,430 --> 00:13:59,680

kennedy space center but really you know

333

00:14:03,509 --> 00:14:01,440

the national asset is more in the people

334

00:14:05,269 --> 00:14:03,519

at the kennedy space center that uh you

335

00:14:07,030 --> 00:14:05,279

know we just want to say uh shout out to

336

00:14:09,430 --> 00:14:07,040

the workforce there at the kennedy space

337

00:14:11,910 --> 00:14:09,440

center uh in florida so a very special

338

00:14:13,910 --> 00:14:11,920

place in our hearts

339

00:14:15,590 --> 00:14:13,920

yeah i know you're a gator as well you

340

00:14:17,430 --> 00:14:15,600

guys have a unique perspective obviously

341

00:14:19,350 --> 00:14:17,440

from where you're at we've been tracking

342

00:14:20,710 --> 00:14:19,360

tropical storm emily from the ground

343

00:14:21,990 --> 00:14:20,720

anything you guys see up there we might

344

00:14:28,389 --> 00:14:22,000

need to be concerned about here in

345

00:14:31,990 --> 00:14:29,910

we haven't had a chance to catch a

346

00:14:34,470 --> 00:14:32,000

glimpse of emily yet but we hope to do

347

00:14:36,949 --> 00:14:34,480

that i hope to do that soon

348

00:14:39,030 --> 00:14:36,959

uh and i'm sure with the of course with

349

00:14:41,269 --> 00:14:39,040

the the national weather satellites and

350

00:14:43,670 --> 00:14:41,279

continuous observations you get views

351
00:14:46,069 --> 00:14:43,680
from lots of different areas and what an

352
00:14:49,990 --> 00:14:46,079
amazing thing and a capability that the

353
00:14:53,509 --> 00:14:51,829
as you guys also know today we may be

354
00:14:55,509 --> 00:14:53,519
launching a rocket here from central

355
00:14:57,030 --> 00:14:55,519
florida heading to jupiter what are your

356
00:14:58,629 --> 00:14:57,040
thoughts on a mission to jupiter what

357
00:15:00,389 --> 00:14:58,639
exactly should we be looking for so

358
00:15:03,509 --> 00:15:00,399
people like me who don't fully

359
00:15:08,870 --> 00:15:03,519
understand the ins and outs of space

360
00:15:12,150 --> 00:15:10,790
well i mean like anything that we're

361
00:15:13,910 --> 00:15:12,160
doing the space program you know we're

362
00:15:16,069 --> 00:15:13,920
trying to basically see what's beyond

363
00:15:17,670 --> 00:15:16,079

the next hill we're trying to you know

364

00:15:20,230 --> 00:15:17,680

increase the understanding of the

365

00:15:20,949 --> 00:15:20,240

universe that we have uh on our planet

366

00:15:23,590 --> 00:15:20,959

and

367

00:15:25,910 --> 00:15:23,600

you know that that you know meets a

368

00:15:27,990 --> 00:15:25,920

certain human nature that we have to to

369

00:15:29,509 --> 00:15:28,000

be curious and to explore but the more

370

00:15:31,509 --> 00:15:29,519

we understand about the universe and the

371

00:15:33,030 --> 00:15:31,519

more we understand about our own planet

372

00:15:34,949 --> 00:15:33,040

the you know better off life is going to

373

00:15:37,189 --> 00:15:34,959

be on our planet and the more we'll be

374

00:15:39,670 --> 00:15:37,199

able to to you know make use of

375

00:15:41,670 --> 00:15:39,680

resources in space uh to

376

00:15:43,749 --> 00:15:41,680

help some of the challenges that we face

377

00:15:44,550 --> 00:15:43,759

on earth so it's just another step in

378

00:15:46,710 --> 00:15:44,560

this

379

00:15:48,550 --> 00:15:46,720

process of exploration that

380

00:15:52,230 --> 00:15:48,560

you know started at the at the dawn of

381

00:15:55,590 --> 00:15:53,910

i'd like to hear a response from both of

382

00:15:57,590 --> 00:15:55,600

you guys to this because i've heard some

383

00:15:59,590 --> 00:15:57,600

interesting responses from astronauts

384

00:16:00,629 --> 00:15:59,600

how has it changed your perception of

385

00:16:09,509 --> 00:16:00,639

earth

386

00:16:13,110 --> 00:16:10,949

well that really is an interesting

387

00:16:14,790 --> 00:16:13,120

question and it's hard to put into words

388

00:16:17,350 --> 00:16:14,800

especially succinctly

389

00:16:18,949 --> 00:16:17,360

but uh you know you can't help but look

390

00:16:21,350 --> 00:16:18,959

at the earth from space without being

391

00:16:24,470 --> 00:16:21,360

moved in some way and uh

392

00:16:26,910 --> 00:16:24,480

i you know my experience led me to to

393

00:16:28,949 --> 00:16:26,920

form a website called fragile oasis at

394

00:16:31,350 --> 00:16:28,959

fragileasis.org where

395

00:16:33,350 --> 00:16:31,360

we're trying as best we can to share

396

00:16:36,150 --> 00:16:33,360

what we call this orbital perspective

397

00:16:37,749 --> 00:16:36,160

this view that you know we are all this

398

00:16:39,269 --> 00:16:37,759

in this together we are all riding on

399

00:16:42,629 --> 00:16:39,279

this spaceship we call earth through the

400

00:16:43,910 --> 00:16:42,639

universe together and you know obviously

401
00:16:45,350 --> 00:16:43,920
you know you've heard it said over and

402
00:16:47,269 --> 00:16:45,360
over again you can't see any borders

403
00:16:49,350 --> 00:16:47,279
from space of course you can't but from

404
00:16:50,550 --> 00:16:49,360
space you know everything looks exactly

405
00:16:52,870 --> 00:16:50,560
like it should be everything looks

406
00:16:56,470 --> 00:16:52,880
peaceful everything looks beautiful uh

407
00:16:59,030 --> 00:16:56,480
but we see also quite quite clearly how

408
00:17:01,749 --> 00:16:59,040
fragile everything is and and you know

409
00:17:03,829 --> 00:17:01,759
we how precarious our situation is and

410
00:17:05,750 --> 00:17:03,839
how much you know we need to take care

411
00:17:08,230 --> 00:17:05,760
of this amazing gift that we've been

412
00:17:09,669 --> 00:17:08,240
given and so you know i think that's the

413
00:17:11,510 --> 00:17:09,679

the main thing that we get at and you

414

00:17:13,750 --> 00:17:11,520

know there's only six of us up here

415

00:17:15,110 --> 00:17:13,760

right now and you know we wish everybody

416

00:17:16,470 --> 00:17:15,120

could see this because if you could see

417

00:17:18,390 --> 00:17:16,480

this i think you know we'd have a lot

418

00:17:20,069 --> 00:17:18,400

less problems on the earth

419

00:17:22,470 --> 00:17:20,079

since everybody can't do that then you

420

00:17:25,029 --> 00:17:22,480

know the best we can do is try and

421

00:17:27,189 --> 00:17:25,039

explain and share it as best we can with

422

00:17:28,870 --> 00:17:27,199

as many people as we can because i think

423

00:17:30,950 --> 00:17:28,880

it's it's a really really important

424

00:17:32,470 --> 00:17:30,960

perspective for everybody to have and

425

00:17:34,230 --> 00:17:32,480

that's the perspective that we were all

426

00:17:38,150 --> 00:17:34,240

in this together and i'll hand over to

427

00:17:41,350 --> 00:17:39,190

for me

428

00:17:43,669 --> 00:17:41,360

the first look out of the window on my

429

00:17:46,630 --> 00:17:43,679

first space flight i was struck by the

430

00:17:47,750 --> 00:17:46,640

the stark and sheer beauty of our planet

431

00:17:49,909 --> 00:17:47,760

from above

432

00:17:51,510 --> 00:17:49,919

uh it occurred to me immediately that i

433

00:17:53,190 --> 00:17:51,520

was kind of looking at it from god's

434

00:17:54,630 --> 00:17:53,200

point of view up above the planet

435

00:17:57,190 --> 00:17:54,640

looking down

436

00:17:59,909 --> 00:17:57,200

as i watched you know over the days and

437

00:18:01,190 --> 00:17:59,919

now months on orbit you're struck

438

00:18:02,870 --> 00:18:01,200

another thing that that strikes you

439

00:18:04,310 --> 00:18:02,880

fairly quickly is when you're looking at

440

00:18:06,789 --> 00:18:04,320

the earth and trying to figure out where

441

00:18:08,150 --> 00:18:06,799

you are it's difficult because you don't

442

00:18:10,950 --> 00:18:08,160

have all those colored lines that we

443

00:18:13,029 --> 00:18:10,960

draw on maps uh and those those lines of

444

00:18:15,270 --> 00:18:13,039

course were drawn by men

445

00:18:16,789 --> 00:18:15,280

and kind of similar to what ronnie said

446

00:18:19,430 --> 00:18:16,799

uh the

447

00:18:21,590 --> 00:18:19,440

the the earth is really one place and

448

00:18:23,029 --> 00:18:21,600

we're all crew just like we're an

449

00:18:24,950 --> 00:18:23,039

international crew on the international

450

00:18:26,390 --> 00:18:24,960

space station and we have to work out

451
00:18:29,029 --> 00:18:26,400
our differences and figure out how to

452
00:18:31,510 --> 00:18:29,039
work together cooperate together it's

453
00:18:33,750 --> 00:18:31,520
for everybody's benefit

454
00:18:36,789 --> 00:18:33,760
we're all passengers we're all crew

455
00:18:39,029 --> 00:18:36,799
really on spaceship earth and it we need

456
00:18:39,990 --> 00:18:39,039
to think of it i think a little more on

457
00:18:42,390 --> 00:18:40,000
on

458
00:18:44,310 --> 00:18:42,400
ignoring not ignoring but but

459
00:18:45,830 --> 00:18:44,320
making less of a barrier to those

460
00:18:47,110 --> 00:18:45,840
borders and i don't mean opening the

461
00:18:49,190 --> 00:18:47,120
borders but i mean thinking of the

462
00:18:52,390 --> 00:18:49,200
planet as our home

463
00:18:54,470 --> 00:18:52,400

and figuring out how to cooperate and

464

00:18:55,510 --> 00:18:54,480

more for the benefit of everybody

465

00:18:58,150 --> 00:18:55,520

involved because we're all in this

466

00:19:02,549 --> 00:19:01,110

all right mike fossum ron garan flight

467

00:19:04,390 --> 00:19:02,559

engineers thanks so much guys do

468

00:19:08,470 --> 00:19:04,400

appreciate it there'll be a big delay so

469

00:19:13,830 --> 00:19:11,590

you're welcome thank you

470

00:19:17,990 --> 00:19:13,840

station this is houston acr that

471

00:19:18,000 --> 00:19:21,029

okay thank you

472

00:19:27,350 --> 00:19:25,430

thank you abc news radio and wofl tv

473

00:19:29,990 --> 00:19:27,360

station we are now resuming operational