



1
00:00:07,749 --> 00:00:03,510
station this is houston are you ready

2
00:00:14,150 --> 00:00:11,709
houston station is ready for the event

3
00:00:17,029 --> 00:00:14,160
space.com this is mission control

4
00:00:18,790 --> 00:00:17,039
houston please call station for a voice

5
00:00:20,390 --> 00:00:18,800
check

6
00:00:47,510 --> 00:00:20,400
station this is miriam kramer with

7
00:00:55,270 --> 00:00:49,830
i'm sorry i can't i can't hear anything

8
00:01:02,790 --> 00:00:58,950
okay i just heard somebody there

9
00:01:04,229 --> 00:01:02,800
oh great hi rick this is miriam cramer

10
00:01:08,789 --> 00:01:04,239
thanks so much for chatting with us

11
00:01:13,590 --> 00:01:11,590
oh you're welcome glad to be here

12
00:01:15,510 --> 00:01:13,600
so some people have trouble just picking

13
00:01:17,350 --> 00:01:15,520

a super bowl watch party or dealing with

14

00:01:18,870 --> 00:01:17,360

time differences during the olympics but

15

00:01:20,310 --> 00:01:18,880

crew members on the space station have

16

00:01:22,070 --> 00:01:20,320

to contend with trying to keep up with

17

00:01:22,950 --> 00:01:22,080

sports from hundreds of miles above the

18

00:01:24,630 --> 00:01:22,960

earth

19

00:01:26,630 --> 00:01:24,640

so we're getting excited here in new

20

00:01:27,990 --> 00:01:26,640

york because the super bowl is in our

21

00:01:29,350 --> 00:01:28,000

neck of the woods this year are you

22

00:01:33,350 --> 00:01:29,360

looking forward to the big game on the

23

00:01:37,350 --> 00:01:35,990

oh yes i i'm definitely looking forward

24

00:01:40,230 --> 00:01:37,360

to it of course uh we're not going to be

25

00:01:42,389 --> 00:01:40,240

able to watch it real time up here but

26

00:01:44,710 --> 00:01:42,399

uh hopefully uh houston will

27

00:01:46,149 --> 00:01:44,720

uplink a version of it uh the next day

28

00:01:47,510 --> 00:01:46,159

or within a few days and we'll get to

29

00:01:49,190 --> 00:01:47,520

watch it so we just got to be careful

30

00:01:50,550 --> 00:01:49,200

nobody tells us the score before we do

31

00:01:52,389 --> 00:01:50,560

that

32

00:01:57,910 --> 00:01:52,399

great and are you rooting for somebody

33

00:02:01,030 --> 00:01:59,429

well you know i think i think i'm

34

00:02:02,469 --> 00:02:01,040

leaning towards the denver broncos i

35

00:02:05,190 --> 00:02:02,479

don't feel strongly about either team

36

00:02:09,029 --> 00:02:05,200

but uh it'd be great to see uh to see

37

00:02:11,190 --> 00:02:09,039

peyton manning win another super bowl

38

00:02:15,030 --> 00:02:11,200

great yeah and as a as a tennessee

39

00:02:16,710 --> 00:02:15,040

native i am also rooting for the broncos

40

00:02:18,710 --> 00:02:16,720

so uh

41

00:02:20,710 --> 00:02:18,720

we have heard that the space station has

42

00:02:22,550 --> 00:02:20,720

about the wingspan of a football field

43

00:02:24,229 --> 00:02:22,560

so have you guys ever tried to play

44

00:02:28,949 --> 00:02:24,239

football on the station and is there

45

00:02:33,430 --> 00:02:31,350

oh we have all manner of sport sports

46

00:02:34,710 --> 00:02:33,440

equipment up here i know on my last

47

00:02:36,630 --> 00:02:34,720

mission we actually played a little bit

48

00:02:38,070 --> 00:02:36,640

of baseball you know kind of in slow

49

00:02:39,910 --> 00:02:38,080

motion you got to be careful up here

50

00:02:41,350 --> 00:02:39,920

there's a lot of scientific equipment

51
00:02:43,750 --> 00:02:41,360
and expensive things that you don't want

52
00:02:45,830 --> 00:02:43,760
to break but every once in a while uh

53
00:02:47,190 --> 00:02:45,840
yeah we have uh we have some fun up here

54
00:02:50,710 --> 00:02:47,200
we don't have a lot of time for it but

55
00:02:51,509 --> 00:02:50,720
we do have some fun up here time to time

56
00:02:53,910 --> 00:02:51,519
great

57
00:02:56,550 --> 00:02:53,920
and also the olympics are coming up in

58
00:02:58,309 --> 00:02:56,560
february do you expect any

59
00:03:02,830 --> 00:02:58,319
friendly international competition

60
00:03:07,750 --> 00:03:05,430
games oh yeah i think so you know we've

61
00:03:09,030 --> 00:03:07,760
got the the japanese astronaut we got

62
00:03:11,110 --> 00:03:09,040
three russian astronauts and then you

63
00:03:11,910 --> 00:03:11,120

got mike and i from the united states

64

00:03:13,110 --> 00:03:11,920

and

65

00:03:15,350 --> 00:03:13,120

uh i think there'll be some friendly

66

00:03:17,670 --> 00:03:15,360

competition especially uh you know maybe

67

00:03:19,750 --> 00:03:17,680

if the hockey teams rushing russian and

68

00:03:21,509 --> 00:03:19,760

u.s hockey teams meet head to head that

69

00:03:23,190 --> 00:03:21,519

would be always interesting maybe we'll

70

00:03:26,390 --> 00:03:23,200

place a bet

71

00:03:28,630 --> 00:03:26,400

with some food items or something

72

00:03:30,470 --> 00:03:28,640

what kind of food items can you can you

73

00:03:32,149 --> 00:03:30,480

bet on

74

00:03:34,630 --> 00:03:32,159

do the russians have something on their

75

00:03:38,869 --> 00:03:34,640

side that that you guys might might want

76

00:03:42,789 --> 00:03:41,270

oh yeah you know the key up here is uh

77

00:03:43,990 --> 00:03:42,799

is getting something different every

78

00:03:45,910 --> 00:03:44,000

once in a while when you're up here for

79

00:03:48,390 --> 00:03:45,920

such a long time even though we do have

80

00:03:49,589 --> 00:03:48,400

a wide variety of variety of food it

81

00:03:50,789 --> 00:03:49,599

starts to get a little bit old so

82

00:03:52,949 --> 00:03:50,799

anytime you can get something a little

83

00:03:55,110 --> 00:03:52,959

different it's it's definitely a

84

00:03:56,869 --> 00:03:55,120

treat so uh i'm sure i'm sure the

85

00:03:58,149 --> 00:03:56,879

russians have a lot of good food and

86

00:04:01,589 --> 00:03:58,159

there's a lot of things that we have

87

00:04:04,869 --> 00:04:01,599

that they they enjoy also

88

00:04:06,550 --> 00:04:04,879

great and and which olympic winter sport

89

00:04:11,670 --> 00:04:06,560

would do you think would be the most fun

90

00:04:16,229 --> 00:04:14,470

oh boy it's hard to say about an olympic

91

00:04:17,590 --> 00:04:16,239

sport in weightlessness especially the

92

00:04:19,590 --> 00:04:17,600

uh winter olympics you know we don't

93

00:04:21,349 --> 00:04:19,600

have uh much snow up here other than

94

00:04:23,749 --> 00:04:21,359

outside when we're uh you know doing a

95

00:04:25,830 --> 00:04:23,759

spacewalk like we had last month with

96

00:04:26,790 --> 00:04:25,840

the ammonia snowstorm

97

00:04:28,870 --> 00:04:26,800

uh

98

00:04:30,469 --> 00:04:28,880

it's you know the kind of thing we do up

99

00:04:32,070 --> 00:04:30,479

here is more like gymnastics you know

100

00:04:33,749 --> 00:04:32,080

when we're floating around and spinning

101
00:04:35,270 --> 00:04:33,759
around you kind of feel like a gymnast

102
00:04:37,590 --> 00:04:35,280
or how a gymnast must feel when they're

103
00:04:39,270 --> 00:04:37,600
doing those incredible feats of course

104
00:04:40,710 --> 00:04:39,280
they have a lot more uh

105
00:04:42,710 --> 00:04:40,720
difficulty doing it in the 1g

106
00:04:44,230 --> 00:04:42,720
environment

107
00:04:45,749 --> 00:04:44,240
that's great that actually leads right

108
00:04:48,469 --> 00:04:45,759
into a question that we got from a

109
00:04:50,629 --> 00:04:48,479
reader drive hyman on facebook asks how

110
00:04:52,230 --> 00:04:50,639
orientation works on the space station

111
00:04:57,030 --> 00:04:52,240
so how do you keep yourself from being

112
00:05:01,189 --> 00:04:58,310
yeah that's a good question because

113
00:05:03,110 --> 00:05:01,199

there is no up and down here in in space

114

00:05:04,790 --> 00:05:03,120

and it's easy to get disoriented

115

00:05:06,629 --> 00:05:04,800

especially if you start working and you

116

00:05:09,029 --> 00:05:06,639

start kind of putting your head inside a

117

00:05:10,710 --> 00:05:09,039

locker or behind a rack once you come

118

00:05:13,270 --> 00:05:10,720

out of that locker rack you're like okay

119

00:05:15,510 --> 00:05:13,280

where am i and so real usually what i do

120

00:05:17,990 --> 00:05:15,520

is i'll reorient myself to a kind of

121

00:05:19,909 --> 00:05:18,000

like a 1g orientation where the where

122

00:05:21,749 --> 00:05:19,919

the deck is the floor and i put my feet

123

00:05:24,230 --> 00:05:21,759

on the deck and then my brain kind of

124

00:05:26,469 --> 00:05:24,240

recognizes where i am but a lot of times

125

00:05:29,270 --> 00:05:26,479

we float around sideways or upside down

126

00:05:31,189 --> 00:05:29,280

and uh and it's it's no issue but every

127

00:05:33,590 --> 00:05:31,199

once in a while it's i have to

128

00:05:36,790 --> 00:05:33,600

reestablish my orientation by just kind

129

00:05:37,590 --> 00:05:36,800

of getting my feet on the deck

130

00:05:39,430 --> 00:05:37,600

great

131

00:05:41,070 --> 00:05:39,440

um and we also we have a question from

132

00:05:43,029 --> 00:05:41,080

robert perlman the editor of

133

00:05:45,749 --> 00:05:43,039

collectspace.com one of our partner

134

00:05:47,510 --> 00:05:45,759

sites and he writes the olympic torch

135

00:05:50,150 --> 00:05:47,520

you and your crewmates had aboard the

136

00:05:51,350 --> 00:05:50,160

station uh will be seen by millions more

137

00:05:54,150 --> 00:05:51,360

when it's used during the opening

138

00:05:56,070 --> 00:05:54,160

ceremonies at the games so what mesh

139

00:05:59,110 --> 00:05:56,080

message about the space station or the

140

00:06:00,710 --> 00:05:59,120

symbolic connection between space and

141

00:06:02,309 --> 00:06:00,720

what message do you have about the space

142

00:06:04,070 --> 00:06:02,319

station and the symbolic connection

143

00:06:07,510 --> 00:06:04,080

between space exploration and the

144

00:06:12,070 --> 00:06:09,430

well that's easy i think the the key

145

00:06:14,070 --> 00:06:12,080

phrase is international cooperation both

146

00:06:16,870 --> 00:06:14,080

the olympics and the international space

147

00:06:17,590 --> 00:06:16,880

station are great examples of what can

148

00:06:19,430 --> 00:06:17,600

what

149

00:06:21,350 --> 00:06:19,440

folks can do when they get together all

150

00:06:23,590 --> 00:06:21,360

these different countries get together

151
00:06:26,309 --> 00:06:23,600
and kind of try to accomplish something

152
00:06:27,749 --> 00:06:26,319
the olympics are an incredible event all

153
00:06:30,309 --> 00:06:27,759
these different nations from around the

154
00:06:32,230 --> 00:06:30,319
world get together to participate in the

155
00:06:33,749 --> 00:06:32,240
athletic events look at the

156
00:06:35,430 --> 00:06:33,759
international space station again you

157
00:06:36,309 --> 00:06:35,440
got many countries from all around the

158
00:06:38,309 --> 00:06:36,319
world

159
00:06:40,070 --> 00:06:38,319
building hardware and then we assembled

160
00:06:42,629 --> 00:06:40,080
it in orbit and it had to fit together

161
00:06:44,390 --> 00:06:42,639
perfectly so international cooperation

162
00:06:46,390 --> 00:06:44,400
is the key to being successful in

163
00:06:48,550 --> 00:06:46,400

anything

164

00:06:50,309 --> 00:06:48,560

great and um i know that you won't be

165

00:06:51,589 --> 00:06:50,319

able to watch the super bowl live but do

166

00:06:56,390 --> 00:06:51,599

you think you'll get a chance to watch

167

00:07:01,029 --> 00:06:58,710

oh yeah i think so uh very much so we

168

00:07:02,710 --> 00:07:01,039

will have some of the olympic events

169

00:07:04,950 --> 00:07:02,720

sent off to us tape

170

00:07:06,390 --> 00:07:04,960

tape delayed basically but we'll also

171

00:07:09,189 --> 00:07:06,400

get some live events i think on the

172

00:07:11,270 --> 00:07:09,199

weekends we often they will uplink a uh

173

00:07:13,110 --> 00:07:11,280

a tv station for us and of course we'll

174

00:07:14,710 --> 00:07:13,120

ask for the olympic events to be sent up

175

00:07:16,150 --> 00:07:14,720

to us so i think on weekends is a very

176
00:07:17,909 --> 00:07:16,160
good possibility we'll get to see some

177
00:07:19,749 --> 00:07:17,919
of the events live

178
00:07:24,790 --> 00:07:19,759
great and is there one that that you're

179
00:07:29,270 --> 00:07:26,790
well you know i i like all the a lot of

180
00:07:31,749 --> 00:07:29,280
the events in the the winter olympics uh

181
00:07:34,150 --> 00:07:31,759
the speed skating and some of these uh

182
00:07:35,990 --> 00:07:34,160
these uh different uh

183
00:07:37,189 --> 00:07:36,000
skiing events are pretty uh pretty

184
00:07:38,629 --> 00:07:37,199
interesting to me anything where there's

185
00:07:41,110 --> 00:07:38,639
a lot of speed seems a little more

186
00:07:44,950 --> 00:07:42,790
and actually circling back to the super

187
00:07:47,270 --> 00:07:44,960
bowl i know that mike hopkins your

188
00:07:49,670 --> 00:07:47,280

fellow nasa astronaut on the station is

189

00:07:51,350 --> 00:07:49,680

pretty into football um so are you two

190

00:07:56,950 --> 00:07:51,360

rooting for the same team this year is

191

00:08:00,790 --> 00:07:59,189

yeah i just heard mike yell out bronco

192

00:08:02,390 --> 00:08:00,800

so i guess we're

193

00:08:03,189 --> 00:08:02,400

i guess we're rooting for the same team

194

00:08:05,110 --> 00:08:03,199

uh

195

00:08:06,710 --> 00:08:05,120

mike's a big college football fan he

196

00:08:07,990 --> 00:08:06,720

watches you know he watches in tracks

197

00:08:10,070 --> 00:08:08,000

college football i'm more of a

198

00:08:11,510 --> 00:08:10,080

professional football fan uh and of

199

00:08:13,270 --> 00:08:11,520

course i'm a new york giants big new

200

00:08:15,110 --> 00:08:13,280

york giants fan since i'm up from around

201
00:08:16,629 --> 00:08:15,120
that area and it would have been great

202
00:08:18,950 --> 00:08:16,639
to see them in the super bowl this year

203
00:08:19,909 --> 00:08:18,960
but uh that didn't happen but uh sounds

204
00:08:21,909 --> 00:08:19,919
like we're going to be rooting for the

205
00:08:23,430 --> 00:08:21,919
same team in the super bowl

206
00:08:24,629 --> 00:08:23,440
that's great and do you have any super

207
00:08:26,550 --> 00:08:24,639
bowl traditions that you're going to

208
00:08:30,070 --> 00:08:26,560
miss this year that you would be doing

209
00:08:33,589 --> 00:08:31,830
well my usual super bowl tradition is

210
00:08:35,829 --> 00:08:33,599
sitting in my chair watching the game in

211
00:08:37,430 --> 00:08:35,839
my living room or study so obviously

212
00:08:39,190 --> 00:08:37,440
that's going to be quite a bit different

213
00:08:40,389 --> 00:08:39,200

but we're going to have a great vantage

214

00:08:43,110 --> 00:08:40,399

point from up here and i'm looking

215

00:08:45,350 --> 00:08:43,120

forward to watching a great game

216

00:08:47,829 --> 00:08:45,360

that's great um and we have another

217

00:08:50,470 --> 00:08:47,839

question from a reader mohamed siobhan

218

00:08:53,430 --> 00:08:50,480

on twitter asks what your favorite city

219

00:08:54,949 --> 00:08:53,440

is to look at from space so

220

00:08:56,870 --> 00:08:54,959

you take some great photos and post them

221

00:08:58,389 --> 00:08:56,880

on twitter but do you have a favorite a

222

00:09:01,829 --> 00:08:58,399

favorite place to look at when you pass

223

00:09:05,430 --> 00:09:03,350

well you know there's i don't know if i

224

00:09:07,269 --> 00:09:05,440

have a favorite city the easiest one

225

00:09:08,630 --> 00:09:07,279

obviously is a new york city in the

226

00:09:10,710 --> 00:09:08,640

northeast

227

00:09:13,269 --> 00:09:10,720

because you got philadelphia baltimore

228

00:09:15,190 --> 00:09:13,279

washington dc you got new york city you

229

00:09:17,190 --> 00:09:15,200

have boston you have those you have all

230

00:09:18,550 --> 00:09:17,200

these major cities all in one place and

231

00:09:20,630 --> 00:09:18,560

you look down and it's like looking at a

232

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

map especially at night you could see

233

00:09:24,310 --> 00:09:22,800

all the big cities all well lit up so

234

00:09:26,150 --> 00:09:24,320

the northeast of the united states is

235

00:09:28,389 --> 00:09:26,160

where i know i know that area the best

236

00:09:30,630 --> 00:09:28,399

of course so it's easier it's easiest to

237

00:09:32,389 --> 00:09:30,640

recognize but all the major cities

238

00:09:33,990 --> 00:09:32,399

around the world are very interesting to

239

00:09:35,509 --> 00:09:34,000

look at and if you get the right vantage

240

00:09:37,269 --> 00:09:35,519

point there they're beautiful and you

241

00:09:41,110 --> 00:09:37,279

get some fantastic pictures of almost

242

00:09:44,550 --> 00:09:42,630

much for chatting with us today rick

243

00:09:47,990 --> 00:09:44,560

really appreciate it have a have a great

244

00:09:51,829 --> 00:09:49,829

thank you very much i appreciate it take

245

00:09:53,430 --> 00:09:51,839

care