



1  
00:00:07,349 --> 00:00:04,230  
station this is houston are you ready

2  
00:00:14,230 --> 00:00:10,430  
we are absolutely ready for the event

3  
00:00:19,990 --> 00:00:14,240  
wjla tv this is mission control houston

4  
00:00:25,990 --> 00:00:22,790  
station this is wjla tv how do you hear

5  
00:00:26,000 --> 00:00:32,310  
i've got you loud and clear up here

6  
00:00:36,310 --> 00:00:33,910  
sounds great commander thanks so much

7  
00:00:38,549 --> 00:00:36,320  
for joining us uh we're excited for this

8  
00:00:39,830 --> 00:00:38,559  
opportunity and i have to begin by

9  
00:00:42,229 --> 00:00:39,840  
talking to you about

10  
00:00:44,310 --> 00:00:42,239  
life in microgravity i know this is your

11  
00:00:46,150 --> 00:00:44,320  
first mission up there how is it faring

12  
00:00:48,310 --> 00:00:46,160  
so far i understand you

13  
00:00:53,510 --> 00:00:48,320

had to bungee cord yourself to a wall

14

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

uh so far it's really uh it's quite a

15

00:00:59,670 --> 00:00:57,760

joy it takes a couple days to get used

16

00:01:02,549 --> 00:00:59,680

to it it took me about a week or two and

17

00:01:04,070 --> 00:01:02,559

then i felt pretty good and yes i did

18

00:01:05,750 --> 00:01:04,080

i usually like to sleep on my stomach

19

00:01:07,350 --> 00:01:05,760

when i'm down on earth and so the other

20

00:01:08,870 --> 00:01:07,360

night i tried to put some bungee cords

21

00:01:11,109 --> 00:01:08,880

across the back of my body and just

22

00:01:12,469 --> 00:01:11,119

bungee cord myself to the wall and it

23

00:01:14,390 --> 00:01:12,479

worked pretty well i slept for a few

24

00:01:15,830 --> 00:01:14,400

hours but then i woke up and i went back

25

00:01:22,789 --> 00:01:15,840

to the good old sleeping bag which i

26

00:01:27,429 --> 00:01:24,789

all right innovation even up in space

27

00:01:29,670 --> 00:01:27,439

regarding sleep habits we like that uh

28

00:01:31,190 --> 00:01:29,680

down here on earth we love to follow all

29

00:01:33,510 --> 00:01:31,200

of your progress and i think it's

30

00:01:35,030 --> 00:01:33,520

fascinating via social media because

31

00:01:37,830 --> 00:01:35,040

you're really good about this everything

32

00:01:39,990 --> 00:01:37,840

from the the tweets to the vines

33

00:01:41,590 --> 00:01:40,000

and i'm curious some of your favorites

34

00:01:43,510 --> 00:01:41,600

we've seen really some fascinating

35

00:01:45,270 --> 00:01:43,520

imagery that the lightning storm over

36

00:01:46,710 --> 00:01:45,280

italy was just absolutely beautiful and

37

00:01:49,830 --> 00:01:46,720

then of course he took some pictures of

38

00:01:51,270 --> 00:01:49,840

us back here in your home area

39

00:01:55,350 --> 00:01:51,280

what's your favorite and what do you

40

00:01:59,590 --> 00:01:57,350

well what do i enjoy most working with

41

00:02:01,749 --> 00:01:59,600

my crew is phenomenal looking outside is

42

00:02:03,190 --> 00:02:01,759

incredible and just getting to float

43

00:02:05,190 --> 00:02:03,200

around up here

44

00:02:07,109 --> 00:02:05,200

that i really enjoy the feedback on

45

00:02:09,510 --> 00:02:07,119

twitter has been fantastic

46

00:02:11,190 --> 00:02:09,520

some of my favorite images

47

00:02:13,030 --> 00:02:11,200

definitely i took a picture of italy a

48

00:02:14,630 --> 00:02:13,040

couple weeks ago that was just amazing

49

00:02:17,830 --> 00:02:14,640

but i'd say over the most visually

50

00:02:19,510 --> 00:02:17,840

amazing is when you look outside uh

51  
00:02:20,710 --> 00:02:19,520  
either far up to the north or far down

52  
00:02:23,430 --> 00:02:20,720  
to the south and you get to see the

53  
00:02:26,390 --> 00:02:23,440  
aurora it's like you're swimming along

54  
00:02:27,990 --> 00:02:26,400  
with these green slowly weaving lights

55  
00:02:32,550 --> 00:02:28,000  
in the sky and it's really absolutely

56  
00:02:36,630 --> 00:02:34,710  
now chris hatfield set the bar pretty

57  
00:02:39,430 --> 00:02:36,640  
high with his space oddity version do

58  
00:02:42,869 --> 00:02:39,440  
you have any any desire any uh pressure

59  
00:02:47,430 --> 00:02:45,430  
absolutely no desire and no pressure to

60  
00:02:48,790 --> 00:02:47,440  
compete with chris hadfield plus i can't

61  
00:02:53,670 --> 00:02:48,800  
sing so it would be pretty much a

62  
00:02:58,390 --> 00:02:55,430  
it is interesting though that it uh

63  
00:03:00,470 --> 00:02:58,400

helps kind of repopularize um space

64

00:03:02,229 --> 00:03:00,480

exploration for a younger generation or

65

00:03:05,030 --> 00:03:02,239

a generation that's more tuned to social

66

00:03:06,710 --> 00:03:05,040

media there is now a responsibility

67

00:03:08,949 --> 00:03:06,720

perhaps for you when you're up there to

68

00:03:10,710 --> 00:03:08,959

kind of keep people back here abreast of

69

00:03:13,910 --> 00:03:10,720

what you're doing and generate some more

70

00:03:18,390 --> 00:03:16,390

well it's definitely a personal decision

71

00:03:20,070 --> 00:03:18,400

nasa appreciates it if we decide to go

72

00:03:22,390 --> 00:03:20,080

to twitter or instagram or any of those

73

00:03:24,470 --> 00:03:22,400

social media outlets but we're one of

74

00:03:26,470 --> 00:03:24,480

six people right now living off of our

75

00:03:28,309 --> 00:03:26,480

planet and i think we kind of have an

76

00:03:30,149 --> 00:03:28,319

obligation to share this experience this

77

00:03:31,990 --> 00:03:30,159

is an incredible place that we're we're

78

00:03:33,350 --> 00:03:32,000

getting the honor to live and work in

79

00:03:35,030 --> 00:03:33,360

and it's something that people are

80

00:03:37,110 --> 00:03:35,040

really curious about and it's it's such

81

00:03:39,030 --> 00:03:37,120

a unique environment it's great to be

82

00:03:40,949 --> 00:03:39,040

able to share it and i think photos and

83

00:03:46,229 --> 00:03:40,959

especially the vine videos really help

84

00:03:49,350 --> 00:03:48,149

now before we get into the science of

85

00:03:51,670 --> 00:03:49,360

all this the research that you're

86

00:03:53,750 --> 00:03:51,680

conducting up there i am curious you're

87

00:03:56,149 --> 00:03:53,760

you're a local boy done good essentially

88

00:03:57,990 --> 00:03:56,159

you have literally made it to the top

89

00:04:02,149 --> 00:03:58,000

you've got your family uh back here in

90

00:04:05,030 --> 00:04:02,159

the maryland uh dc and virginia area

91

00:04:06,869 --> 00:04:05,040

what is it about uh seeing home from

92

00:04:11,110 --> 00:04:06,879

above from that far above does it kind

93

00:04:16,229 --> 00:04:12,949

oh it definitely does when you when you

94

00:04:18,870 --> 00:04:16,239

can look down and in one one glance i

95

00:04:20,629 --> 00:04:18,880

can see virginia beach uh all the way up

96

00:04:23,510 --> 00:04:20,639

through maryland all the way up to new

97

00:04:24,870 --> 00:04:23,520

york city and here is uh with just a few

98

00:04:26,550 --> 00:04:24,880

very small exceptions this is every

99

00:04:28,629 --> 00:04:26,560

place i've ever lived and every person

100

00:04:30,870 --> 00:04:28,639

i've really ever had a relationship with

101  
00:04:32,870 --> 00:04:30,880  
my parents my wife's whole families from

102  
00:04:34,150 --> 00:04:32,880  
that area all my friends from college up

103  
00:04:35,909 --> 00:04:34,160  
in new york

104  
00:04:37,430 --> 00:04:35,919  
and you can just take one glance just

105  
00:04:39,830 --> 00:04:37,440  
shift your gaze a little bit and you

106  
00:04:41,670 --> 00:04:39,840  
cover all of that it's amazing how how

107  
00:04:43,670 --> 00:04:41,680  
tiny it makes the east coast the u.s

108  
00:04:45,670 --> 00:04:43,680  
look and really the whole world is just

109  
00:04:46,950 --> 00:04:45,680  
we go around once every 90 minutes it's

110  
00:04:52,310 --> 00:04:46,960  
actually a pretty small place when you

111  
00:04:55,990 --> 00:04:53,909  
small from your vantage point big from

112  
00:04:58,230 --> 00:04:56,000  
ours right what about communicating with

113  
00:05:01,189 --> 00:04:58,240

uh your your friends and family back

114

00:05:03,270 --> 00:05:01,199

here in the dmv area and and is the best

115

00:05:05,590 --> 00:05:03,280

way for them to catch up with you to

116

00:05:07,110 --> 00:05:05,600

follow you on social media or is it

117

00:05:08,550 --> 00:05:07,120

going to be watching a story like ours

118

00:05:11,670 --> 00:05:08,560

tonight how do you like to communicate

119

00:05:13,510 --> 00:05:11,680

with the family

120

00:05:16,469 --> 00:05:13,520

i'll take any communication i can get

121

00:05:17,990 --> 00:05:16,479

from up here so uh twitter is fantastic

122

00:05:18,870 --> 00:05:18,000

if people want to follow along for the

123

00:05:21,110 --> 00:05:18,880

ride

124

00:05:22,629 --> 00:05:21,120

they can take the doses as they see fit

125

00:05:25,189 --> 00:05:22,639

and of course catching a little news

126

00:05:30,230 --> 00:05:25,199

story about guys up in space i think

127

00:05:33,670 --> 00:05:31,990

um let's talk about all the work up

128

00:05:36,150 --> 00:05:33,680

there a lot of scientific research as

129

00:05:38,790 --> 00:05:36,160

always on the iss but in particular

130

00:05:40,469 --> 00:05:38,800

you've got some uh some mission that you

131

00:05:42,390 --> 00:05:40,479

are probably pretty excited about more

132

00:05:44,469 --> 00:05:42,400

than any others i know the atv is coming

133

00:05:45,909 --> 00:05:44,479

i believe tomorrow so can you talk to us

134

00:05:47,430 --> 00:05:45,919

a little bit about what you're doing up

135

00:05:50,790 --> 00:05:47,440

there and how it's going to benefit us

136

00:05:54,629 --> 00:05:51,990

well right now

137

00:05:56,550 --> 00:05:54,639

you're with me in the u.s laboratory and

138

00:05:58,790 --> 00:05:56,560

it looks like a pretty quiet environment

139

00:06:01,350 --> 00:05:58,800

but uh just here to my left we're doing

140

00:06:03,029 --> 00:06:01,360

some capillary flow research to see how

141

00:06:04,710 --> 00:06:03,039

we can move fluid around without even

142

00:06:06,309 --> 00:06:04,720

using a pump and i'm looking at the

143

00:06:08,550 --> 00:06:06,319

display it's pretty good stuff it's a

144

00:06:10,870 --> 00:06:08,560

german experiment going on uh right over

145

00:06:12,550 --> 00:06:10,880

here to my left is a furnace and i've

146

00:06:15,189 --> 00:06:12,560

put a few of the videos on vine where

147

00:06:16,390 --> 00:06:15,199

we're igniting floating spheres of fire

148

00:06:18,550 --> 00:06:16,400

just to see what happens to them and

149

00:06:19,350 --> 00:06:18,560

there's some really unexpected results

150

00:06:22,950 --> 00:06:19,360

which

151  
00:06:25,670 --> 00:06:22,960  
car engines but really we're looking at

152  
00:06:26,790 --> 00:06:25,680  
helping us up here in future spacecraft

153  
00:06:28,150 --> 00:06:26,800  
design

154  
00:06:29,990 --> 00:06:28,160  
i'm also doing some colloidal

155  
00:06:31,270 --> 00:06:30,000  
experiments down there actually ground

156  
00:06:32,950 --> 00:06:31,280  
is monitoring them with this really

157  
00:06:34,710 --> 00:06:32,960  
powerful telescope

158  
00:06:36,550 --> 00:06:34,720  
you also just mentioned the atv the

159  
00:06:38,950 --> 00:06:36,560  
cargo vehicle that the european space

160  
00:06:40,629 --> 00:06:38,960  
agency launched uh a week and a half

161  
00:06:42,309 --> 00:06:40,639  
about two weeks ago and that's bringing

162  
00:06:44,710 --> 00:06:42,319  
something that we're all really excited

163  
00:06:47,189 --> 00:06:44,720

about it's an electromagnetic levitator

164

00:06:50,790 --> 00:06:47,199

and will actually take molten spheres of

165

00:06:52,950 --> 00:06:50,800

alloys and using electro

166

00:06:54,710 --> 00:06:52,960

magnet levitation we will actually

167

00:06:55,670 --> 00:06:54,720

balance them out and see what happens to

168

00:06:57,670 --> 00:06:55,680

these things see what happens to the

169

00:06:59,430 --> 00:06:57,680

crystallization process in there and

170

00:07:00,790 --> 00:06:59,440

it's going to be really quite amazing

171

00:07:04,469 --> 00:07:00,800

for us up here to get to be a part of

172

00:07:09,110 --> 00:07:06,710

anything fun on that atv

173

00:07:10,790 --> 00:07:09,120

that's perhaps not data related or is

174

00:07:13,510 --> 00:07:10,800

there any supplies you're just excited

175

00:07:14,230 --> 00:07:13,520

to finally get some

176  
00:07:18,710 --> 00:07:14,240  
some

177  
00:07:24,150 --> 00:07:21,350  
uh for me i love food i've said that uh

178  
00:07:26,950 --> 00:07:24,160  
to everyone that i can and uh my german

179  
00:07:29,029 --> 00:07:26,960  
crew mate he has some special there will

180  
00:07:31,189 --> 00:07:29,039  
be some german food on there that uh if

181  
00:07:32,870 --> 00:07:31,199  
he doesn't share i'm going to make sure

182  
00:07:34,790 --> 00:07:32,880  
i get some anyway when he's not looking

183  
00:07:36,150 --> 00:07:34,800  
i'll sneak a few cans for myself so

184  
00:07:37,830 --> 00:07:36,160  
that's why i'm really looking forward to

185  
00:07:42,150 --> 00:07:37,840  
getting some of that good european

186  
00:07:45,430 --> 00:07:43,189  
all right we've just got a couple

187  
00:07:47,270 --> 00:07:45,440  
minutes left but i'm curious uh if i can

188  
00:07:49,029 --> 00:07:47,280

bring you back to the local ties here

189

00:07:51,430 --> 00:07:49,039

since you do have your your family and

190

00:07:52,790 --> 00:07:51,440

friends here um and we'll broadcast this

191

00:07:54,150 --> 00:07:52,800

tonight what kind of messages you might

192

00:07:59,510 --> 00:07:54,160

want to send back home you've got the

193

00:08:03,510 --> 00:08:01,350

well that's that's a tough one i mean i

194

00:08:05,510 --> 00:08:03,520

love you all i uh when i look down

195

00:08:07,749 --> 00:08:05,520

especially on the chesapeake bay

196

00:08:10,309 --> 00:08:07,759

i remember my childhood eating maryland

197

00:08:11,830 --> 00:08:10,319

blue crabs down ocean city

198

00:08:14,070 --> 00:08:11,840

going out fishing on the chesapeake

199

00:08:16,390 --> 00:08:14,080

there and uh it's just it's such a great

200

00:08:19,110 --> 00:08:16,400

place uh we live in

201  
00:08:20,070 --> 00:08:19,120  
especially in that dc maryland baltimore

202  
00:08:21,990 --> 00:08:20,080  
area

203  
00:08:24,150 --> 00:08:22,000  
great summers pretty good winters can

204  
00:08:25,589 --> 00:08:24,160  
play in the snow and i just i miss it

205  
00:08:27,510 --> 00:08:25,599  
all the way around it's it's such a

206  
00:08:28,950 --> 00:08:27,520  
great place to grow up and i hope

207  
00:08:34,709 --> 00:08:28,960  
someday soon i can get back there with

208  
00:08:38,790 --> 00:08:36,230  
that sounds great reid last last

209  
00:08:40,550 --> 00:08:38,800  
question for you what surprised you most

210  
00:08:41,990 --> 00:08:40,560  
so far about your time and space i know

211  
00:08:43,990 --> 00:08:42,000  
that you prepare so much for these

212  
00:08:46,389 --> 00:08:44,000  
missions but it is your first time up

213  
00:08:47,910 --> 00:08:46,399

there uh what surprised you most and

214

00:08:51,269 --> 00:08:47,920

what's the the hardest part what's the

215

00:08:54,790 --> 00:08:53,190

what surprised me most was i trained

216

00:08:57,030 --> 00:08:54,800

essentially for two and a half years for

217

00:08:59,030 --> 00:08:57,040

this mission and and i thought i had

218

00:09:00,550 --> 00:08:59,040

everything pretty wired in my brain but

219

00:09:02,949 --> 00:09:00,560

when you get up here and come on to the

220

00:09:04,790 --> 00:09:02,959

space station and you don't have the

221

00:09:08,230 --> 00:09:04,800

component of gravity that you always had

222

00:09:10,550 --> 00:09:08,240

in training and wow it just your it

223

00:09:13,190 --> 00:09:10,560

rewires your brain almost immediately i

224

00:09:14,949 --> 00:09:13,200

felt so disorganized so confused so out

225

00:09:16,389 --> 00:09:14,959

of place when i first got up here it

226

00:09:18,230 --> 00:09:16,399

takes a little while to get used to it

227

00:09:20,949 --> 00:09:18,240

so that was the hardest thing i actually

228

00:09:22,949 --> 00:09:20,959

thought losing gravity would be fun and

229

00:09:25,269 --> 00:09:22,959

it is it's great but wow for the first

230

00:09:27,670 --> 00:09:25,279

few days it just it's uh

231

00:09:29,030 --> 00:09:27,680

it crushes your head and so that was

232

00:09:30,790 --> 00:09:29,040

actually the hardest at the beginning

233

00:09:32,790 --> 00:09:30,800

and now it's almost the easiest because

234

00:09:34,150 --> 00:09:32,800

you can just take a 300 pound object and

235

00:09:36,470 --> 00:09:34,160

just push it with your finger and move

236

00:09:38,710 --> 00:09:36,480

it all the way across the us lab with no

237

00:09:43,670 --> 00:09:38,720

no problem at all so hardest at first

238

00:09:46,710 --> 00:09:45,190

we're proud of you here back home thanks

239

00:09:48,710 --> 00:09:46,720

so much for taking the time to talk to

240

00:09:50,230 --> 00:09:48,720

us and of course we'll uh share your

241

00:09:51,750 --> 00:09:50,240

comments with uh friends and family

242

00:09:54,070 --> 00:09:51,760

thanks a lot and enjoy your time up

243

00:10:00,150 --> 00:09:55,590

excellent i appreciate the time scott

244

00:10:00,160 --> 00:10:03,030

bye-bye

245

00:10:10,630 --> 00:10:05,590

station this is houston acr that

246

00:10:13,990 --> 00:10:11,550

thank you

247

00:10:15,910 --> 00:10:14,000

wjla tv

248

00:10:17,990 --> 00:10:15,920

station please stand by while we