



ATCH EXIT

EXIT

MEMBER 2

D OF

1
00:00:06,749 --> 00:00:03,239
station this is Houston are you ready

2
00:00:12,699 --> 00:00:08,589
Houston station we're ready for the

3
00:00:14,859 --> 00:00:12,709
event WNYW TV this is Mission Control

4
00:00:16,570 --> 00:00:14,869
Houston please call station for our

5
00:00:18,939 --> 00:00:16,580
voice text catch and release back then

6
00:00:20,890 --> 00:00:18,949
you took it home and it can you hear a

7
00:00:22,839 --> 00:00:20,900
hi good morning by stamp I please

8
00:00:24,880 --> 00:00:22,849
montauk you can actually see the whale

9
00:00:27,700 --> 00:00:24,890
better cause I don't want to fish them

10
00:00:30,489 --> 00:00:27,710
ya know hi good morning alright are we

11
00:00:32,710 --> 00:00:30,499
ready to go to outer space mara the

12
00:00:34,569 --> 00:00:32,720
ayats on the International Space Station

13
00:00:37,380 --> 00:00:34,579

hi there join us right now we have crew

14

00:00:40,060 --> 00:00:37,390

members dan burbank and don pettit

15

00:00:44,860 --> 00:00:40,070

astronauts both gentlemen welcome to

16

00:00:46,210 --> 00:00:44,870

good day New York can you hear us Greg

17

00:00:50,740 --> 00:00:46,220

we got you loud and clear welcome aboard

18

00:00:52,930 --> 00:00:50,750

the International Space Station sites

19

00:00:54,490 --> 00:00:52,940

okay listen what's it like up there for

20

00:00:55,870 --> 00:00:54,500

you guys now especially you know you're

21

00:01:00,490 --> 00:00:55,880

hanging out with the cosmonauts these

22

00:01:02,170 --> 00:01:00,500

days well we've been doing that actually

23

00:01:04,359 --> 00:01:02,180

that for quite a long time it's the

24

00:01:06,520 --> 00:01:04,369

International Space Station for good

25

00:01:08,230 --> 00:01:06,530

reason we've got 50 nations all around

26
00:01:10,300 --> 00:01:08,240
the world that helped build this and and

27
00:01:12,190 --> 00:01:10,310
continue to operate it today so we've

28
00:01:14,649 --> 00:01:12,200
got currently a crew of three Russian

29
00:01:17,230 --> 00:01:14,659
cosmonauts and we've got Andre Kuiper's

30
00:01:21,610 --> 00:01:17,240
from the Netherlands and Don Pettit

31
00:01:23,710 --> 00:01:21,620
myself from from the US and from a crew

32
00:01:28,390 --> 00:01:23,720
perspective there's only one space

33
00:01:30,730 --> 00:01:28,400
station well that's beautiful it really

34
00:01:31,870 --> 00:01:30,740
is and we're we're proud of you and how

35
00:01:35,920 --> 00:01:31,880
long have you been up there by the way

36
00:01:42,070 --> 00:01:35,930
let's start with the scientist Don

37
00:01:44,230 --> 00:01:42,080
Pettit you know I can't actually

38
00:01:48,250 --> 00:01:44,240

remember how long I've been up here I I

39

00:01:52,060 --> 00:01:48,260

left home in the middle of October to go

40

00:01:56,200 --> 00:01:52,070

to Star City Russia and I haven't been

41

00:02:02,140 --> 00:01:56,210

back since what kind of experiments have

42

00:02:04,359 --> 00:02:02,150

you been conducting up there well a week

43

00:02:05,800 --> 00:02:04,369

we have two general classes of

44

00:02:07,960 --> 00:02:05,810

experiments we have life science

45

00:02:10,179 --> 00:02:07,970

experiments where we're the guinea pigs

46

00:02:13,390 --> 00:02:10,189

mostly and we poke and snip at ourselves

47

00:02:16,420 --> 00:02:13,400

to try to look at secrets to human

48

00:02:18,699 --> 00:02:16,430

physiology using gravity as another

49

00:02:19,960 --> 00:02:18,709

experimental variable and then we do

50

00:02:21,640 --> 00:02:19,970

physical son

51
00:02:23,440 --> 00:02:21,650
science experiments combustion

52
00:02:26,140 --> 00:02:23,450
experiments crystal growth experiment

53
00:02:28,420 --> 00:02:26,150
stades like that and this morning I have

54
00:02:31,360 --> 00:02:28,430
in fact actually up until about two

55
00:02:33,370 --> 00:02:31,370
minutes before this PA o event I was

56
00:02:36,340 --> 00:02:33,380
working with some folks at NASA Glenn on

57
00:02:38,620 --> 00:02:36,350
combustion experiments we were burning

58
00:02:41,920 --> 00:02:38,630
solid materials I was burning up a

59
00:02:45,250 --> 00:02:41,930
sphere of pmma not to be confused with

60
00:02:47,860 --> 00:02:45,260
our PM a.m. which is a module but pmma

61
00:02:49,780 --> 00:02:47,870
its polymethylmethacrylate burning a

62
00:02:53,770 --> 00:02:49,790
little sphere of that stuff it's plastic

63
00:02:55,660 --> 00:02:53,780

and looking at its characteristics in a

64

00:02:58,180 --> 00:02:55,670

weightless environment with forced

65

00:03:01,960 --> 00:02:58,190

convection and it's fascinating we saw

66

00:03:04,390 --> 00:03:01,970

some deposition along the the Terminator

67

00:03:07,690 --> 00:03:04,400

of the sphere that hasn't been seen

68

00:03:09,930 --> 00:03:07,700

before on on Earth based combustion

69

00:03:14,500 --> 00:03:09,940

experiments it's really exciting stuff

70

00:03:16,180 --> 00:03:14,510

that sounds so cool dan I want to know

71

00:03:18,250 --> 00:03:16,190

from you what you do in the off time

72

00:03:21,160 --> 00:03:18,260

because I know you have that astronaut

73

00:03:25,900 --> 00:03:21,170

musical band what to call max Q are you

74

00:03:28,210 --> 00:03:25,910

singing up in space yeah that actually

75

00:03:30,520 --> 00:03:28,220

resent I haven't had as much time as I

76

00:03:32,199 --> 00:03:30,530

like to play the guitar we have a guitar

77

00:03:34,449 --> 00:03:32,209

up here we've got a lecture on a

78

00:03:35,650 --> 00:03:34,459

keyboard and occasionally in the

79

00:03:37,630 --> 00:03:35,660

weekends will be a little bit of time

80

00:03:40,210 --> 00:03:37,640

and I'll break the guitar out and in

81

00:03:41,949 --> 00:03:40,220

play got to keep my my chops up enough

82

00:03:45,550 --> 00:03:41,959

so that I can rejoin the band when I

83

00:03:47,050 --> 00:03:45,560

come back late in April then let me ask

84

00:03:48,910 --> 00:03:47,060

you this where are you right now where

85

00:03:50,770 --> 00:03:48,920

is the International Space Station

86

00:03:55,399 --> 00:03:50,780

relative to earth what are you over and

87

00:04:00,119 --> 00:03:58,229

well Greg we're moving about 17,500

88

00:04:02,250 --> 00:04:00,129

miles an hour when we started this

89

00:04:03,539 --> 00:04:02,260

discussion we were over the Midwest by

90

00:04:05,369 --> 00:04:03,549

the time we finish in a couple of

91

00:04:07,379 --> 00:04:05,379

minutes we'll be crossing Cape Hatteras

92

00:04:10,679 --> 00:04:07,389

headed out over the Atlantic and then

93

00:04:12,629 --> 00:04:10,689

the South Atlantic I wonder do you guys

94

00:04:14,459 --> 00:04:12,639

ever get nauseous while you're up there

95

00:04:20,129 --> 00:04:14,469

does it ever get all just floating

96

00:04:22,469 --> 00:04:20,139

around well the answer the first

97

00:04:23,820 --> 00:04:22,479

question I think for the most part all

98

00:04:25,620 --> 00:04:23,830

of us been pretty fortunate there's

99

00:04:28,050 --> 00:04:25,630

probably about a forty percent or so

100

00:04:29,640 --> 00:04:28,060

incidents where there'll be a little bit

101
00:04:31,439 --> 00:04:29,650
of what we call space motion sickness

102
00:04:32,850 --> 00:04:31,449
for for some folks when they first

103
00:04:35,790 --> 00:04:32,860
launched it generally goes away in a

104
00:04:38,909 --> 00:04:35,800
couple of days it's it's very transient

105
00:04:41,339 --> 00:04:38,919
and when when folks feel a little bit

106
00:04:43,020 --> 00:04:41,349
off it'll generally pass pretty quickly

107
00:04:45,930 --> 00:04:43,030
and like I say after about a week or so

108
00:04:48,390 --> 00:04:45,940
just about everybody I think feels full

109
00:04:50,700 --> 00:04:48,400
up all of us had a better pretty easy go

110
00:04:53,700 --> 00:04:50,710
of it as far as do you ever get tired of

111
00:04:55,770 --> 00:04:53,710
it I can say at least after well after

112
00:04:57,390 --> 00:04:55,780
four months now you don't even get close

113
00:04:59,100 --> 00:04:57,400

to getting tired of being weightless up

114

00:05:02,339 --> 00:04:59,110

here it's one of the neatest aspects of

115

00:05:05,550 --> 00:05:02,349

being in space and if we had the

116

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

technology right now I would emigrate to

117

00:05:11,040 --> 00:05:08,680

space I'd load my my family up my boys

118

00:05:13,140 --> 00:05:11,050

up on a rocket and emigrate the space

119

00:05:15,330 --> 00:05:13,150

that never come back to earth but of

120

00:05:17,189 --> 00:05:15,340

course that's a safe thing for me to say

121

00:05:22,620 --> 00:05:17,199

because we don't have the technology to

122

00:05:24,149 --> 00:05:22,630

do that uh listen I've always been

123

00:05:25,200 --> 00:05:24,159

curious where you actually sleep and

124

00:05:26,640 --> 00:05:25,210

that kind of thing I'm it doesn't look

125

00:05:29,070 --> 00:05:26,650

very comfortable where you are there a

126

00:05:31,310 --> 00:05:29,080

lot of wires and things hanging around

127

00:05:34,050 --> 00:05:31,320

that looked like might get in the way

128

00:05:36,270 --> 00:05:34,060

how much space do you have up there and

129

00:05:42,659 --> 00:05:36,280

it's very rec room or anything like that

130

00:05:44,700 --> 00:05:42,669

no no rec room no holodeck nothing like

131

00:05:47,279 --> 00:05:44,710

that for our sleeping quarters we each

132

00:05:48,870 --> 00:05:47,289

have about a phone booth size volume to

133

00:05:51,420 --> 00:05:48,880

sleep in and actually it sounds like

134

00:05:54,120 --> 00:05:51,430

it's it's pretty cramped and cozy but

135

00:05:55,499 --> 00:05:54,130

it's more than enough in and we have

136

00:05:57,390 --> 00:05:55,509

each host have a sleeping bag

137

00:06:00,029 --> 00:05:57,400

essentially that can be suspended from

138

00:06:02,580 --> 00:06:00,039

the ceiling in the floor and sometimes

139

00:06:04,990 --> 00:06:02,590

at least in my case I will just sleep

140

00:06:07,060 --> 00:06:05,000

floating around inside the volume and

141

00:06:10,390 --> 00:06:07,070

and it's fine it's like sleeping in this

142

00:06:12,070 --> 00:06:10,400

office softest bed you can imagine could

143

00:06:13,780 --> 00:06:12,080

could you uh maybe let go of the

144

00:06:15,460 --> 00:06:13,790

microphone could we see it was can we

145

00:06:18,520 --> 00:06:15,470

see a weightless demonstration something

146

00:06:22,420 --> 00:06:18,530

mild something small we'd love to there

147

00:06:26,040 --> 00:06:22,430

it is that's very cool can we look out

148

00:06:28,890 --> 00:06:26,050

the window there he goes on around ah

149

00:06:35,350 --> 00:06:28,900

come back that looks like so much fun

150

00:06:37,120 --> 00:06:35,360

hey house yeah actually the food's

151
00:06:38,440 --> 00:06:37,130
pretty good we have a great selection of

152
00:06:39,940 --> 00:06:38,450
food and there's a lot of food up here

153
00:06:42,460 --> 00:06:39,950
that you would think would not

154
00:06:45,370 --> 00:06:42,470
necessarily be all that well suited

155
00:06:47,350 --> 00:06:45,380
for rehydrating for example and it

156
00:06:49,510 --> 00:06:47,360
actually actually does really well some

157
00:06:52,690 --> 00:06:49,520
of the food comes thermally stabilized

158
00:06:54,820 --> 00:06:52,700
and pouches and and it's a very similar

159
00:06:56,950 --> 00:06:54,830
to what some of our troops might might

160
00:07:00,340 --> 00:06:56,960
have to eat what we call meals ready to

161
00:07:02,980 --> 00:07:00,350
eat you know over in the Gulf a lot of

162
00:07:05,470 --> 00:07:02,990
the food though is is dehydrated we do

163
00:07:07,360 --> 00:07:05,480

that because we can save a lot on launch

164

00:07:09,010 --> 00:07:07,370

weight by launching food dry and adding

165

00:07:10,900 --> 00:07:09,020

the water when we get here the folks

166

00:07:12,880 --> 00:07:10,910

that plan and figure out how to do that

167

00:07:14,860 --> 00:07:12,890

do a really good job so when you add a

168

00:07:16,420 --> 00:07:14,870

little bit of water in the dispenser

169

00:07:18,340 --> 00:07:16,430

unit that's right above our heads right

170

00:07:19,960 --> 00:07:18,350

here and a matter about 10 or 15 minutes

171

00:07:22,090 --> 00:07:19,970

you can have anything from shrimp

172

00:07:26,490 --> 00:07:22,100

cocktail to screamed to creamed spinach

173

00:07:28,780 --> 00:07:26,500

to steak and and it's all really great

174

00:07:30,580 --> 00:07:28,790

it looks like a lot of fun I can see why

175

00:07:32,320 --> 00:07:30,590

don wants to emigrate to space

176

00:07:34,900 --> 00:07:32,330

permanently finally do you get to watch

177

00:07:36,640 --> 00:07:34,910

movies you get to watch TV shows email

178

00:07:37,990 --> 00:07:36,650

what do you do with the with the with it

179

00:07:39,100 --> 00:07:38,000

down time that you have to have from

180

00:07:41,469 --> 00:07:39,110

time to time you're up there for months

181

00:07:46,450 --> 00:07:41,479

on end you have to relax every now and

182

00:07:49,360 --> 00:07:46,460

then what do you do well we have this

183

00:07:51,670 --> 00:07:49,370

same called the cupola and it's a series

184

00:07:53,920 --> 00:07:51,680

of seven windows that look out on earth

185

00:07:57,159 --> 00:07:53,930

and as far as I'm concerned there's no

186

00:07:59,260 --> 00:07:57,169

need to have TV and movies and things

187

00:08:02,320 --> 00:07:59,270

like that when you could go look at this

188

00:08:04,150 --> 00:08:02,330

view which is an incredible feast for

189

00:08:05,920 --> 00:08:04,160

your eyes and then of course we're in

190

00:08:08,700 --> 00:08:05,930

this weightless environment and there's

191

00:08:11,170 --> 00:08:08,710

all kinds of fascinating little side

192

00:08:14,620 --> 00:08:11,180

experiments you can do on your off-duty

193

00:08:17,380 --> 00:08:14,630

time investigating things that just

194

00:08:19,150 --> 00:08:17,390

don't work this way when you are on the

195

00:08:21,490 --> 00:08:19,160

surface of Earth and I think this is

196

00:08:23,050 --> 00:08:21,500

part of being in a frontier where we're

197

00:08:26,350 --> 00:08:23,060

living in an environment that's unknown

198

00:08:28,029 --> 00:08:26,360

and it's counter to our intuition and

199

00:08:29,890 --> 00:08:28,039

the answers are not in the back of the

200

00:08:33,279 --> 00:08:29,900

book and we're in the process of right

201
00:08:35,709 --> 00:08:33,289
in the book Don Pettit Dan Burbank

202
00:08:37,180 --> 00:08:35,719
thanks so much safe travels real quick

203
00:08:38,670 --> 00:08:37,190
can we look out the window with you

204
00:08:43,719 --> 00:08:38,680
probably not it looks like that cameras

205
00:08:45,520 --> 00:08:43,729
kind of fixed in one position we got

206
00:08:47,170 --> 00:08:45,530
about 20 windows scattered all about the

207
00:08:49,270 --> 00:08:47,180
space station and there's one directly

208
00:08:51,520 --> 00:08:49,280
below your right now but unfortunately

209
00:08:52,870 --> 00:08:51,530
for us to open it up and give you a view

210
00:08:54,910 --> 00:08:52,880
I don't think you have the time to do

211
00:08:57,300 --> 00:08:54,920
that but it was great talking with you

212
00:09:00,370 --> 00:08:57,310
today and we wish you all the very best

213
00:09:02,320 --> 00:09:00,380

we just got a peek from another camera

214

00:09:03,579 --> 00:09:02,330

thank you so much again be careful up

215

00:09:06,140 --> 00:09:03,589

there and we look forward to you coming

216

00:09:11,720 --> 00:09:09,650

okay thank you all best station this is

217

00:09:17,480 --> 00:09:11,730

Houston ACR that concludes the event

218

00:09:19,250 --> 00:09:17,490

thank you Thank You WNYW TV station