



HATCH

EXPLORE LIFE
A CHAMPION
TODAY

1
00:00:08,629 --> 00:00:04,070
station this is houston are you ready

2
00:00:08,639 --> 00:00:12,950
houston station i am ready for the event

3
00:00:17,590 --> 00:00:15,430
cbs this is mission control houston

4
00:00:19,670 --> 00:00:17,600
please call station for a voice check

5
00:00:23,429 --> 00:00:19,680
station good morning this is cbs news

6
00:00:25,990 --> 00:00:24,550
cbs

7
00:00:28,310 --> 00:00:26,000
station here's your loud and clear

8
00:00:30,550 --> 00:00:28,320
welcome to the destiny lab well and good

9
00:00:33,590 --> 00:00:30,560
morning from florida commander ford it's

10
00:00:35,670 --> 00:00:33,600
peter king along with uh bill harwood

11
00:00:37,670 --> 00:00:35,680
and uh this is our chance to wish you an

12
00:00:39,270 --> 00:00:37,680
early merry christmas and that's a great

13
00:00:41,350 --> 00:00:39,280

way to start off

14

00:00:42,869 --> 00:00:41,360

our chat this morning you know everybody

15

00:00:44,869 --> 00:00:42,879

from year to year seems to be pretty

16

00:00:47,350 --> 00:00:44,879

curious about what

17

00:00:49,190 --> 00:00:47,360

the astronauts and cosmonauts do for

18

00:00:51,270 --> 00:00:49,200

christmas aboard station things like

19

00:00:53,110 --> 00:00:51,280

your meals traditions

20

00:00:58,389 --> 00:00:53,120

gifts that sort of thing so tell us a

21

00:01:03,029 --> 00:01:01,270

well i have in my uh stash somewhere uh

22

00:01:05,030 --> 00:01:03,039

some things that people put in crew care

23

00:01:06,630 --> 00:01:05,040

packages for me that you know we're uh

24

00:01:08,630 --> 00:01:06,640

don't open till christmas kind of thing

25

00:01:11,030 --> 00:01:08,640

so i have that waiting for me

26

00:01:14,550 --> 00:01:11,040

and uh a special treat this year is uh

27

00:01:16,550 --> 00:01:14,560

the crew of 33 33 s soyuz to join

28

00:01:18,789 --> 00:01:16,560

expedition 34 will be launching from

29

00:01:21,670 --> 00:01:18,799

kazakhstan just a few days and actually

30

00:01:23,030 --> 00:01:21,680

arrive about the 21st of december so

31

00:01:24,870 --> 00:01:23,040

it'll be like

32

00:01:26,550 --> 00:01:24,880

santa you know coming up the chimney

33

00:01:28,390 --> 00:01:26,560

when they come through the lock and

34

00:01:29,990 --> 00:01:28,400

arrive on board so it'll be good to see

35

00:01:32,789 --> 00:01:30,000

them on board

36

00:01:34,950 --> 00:01:32,799

we have some special food set aside and

37

00:01:36,630 --> 00:01:34,960

one of the bags for christmas day and

38

00:01:38,310 --> 00:01:36,640

we'll we'll have a holiday that day so

39

00:01:40,149 --> 00:01:38,320

that's how we'll celebrate on board

40

00:01:41,030 --> 00:01:40,159

maybe a few decorations around i haven't

41

00:01:42,950 --> 00:01:41,040

actually

42

00:01:46,710 --> 00:01:42,960

strung the lights outside yet nasa

43

00:01:51,910 --> 00:01:49,030

and of course right after christmas uh

44

00:01:54,389 --> 00:01:51,920

come the big college bowl games

45

00:01:56,870 --> 00:01:54,399

for those who are not aware uh we know

46

00:01:59,510 --> 00:01:56,880

that you are not just a native hoosier

47

00:02:01,350 --> 00:01:59,520

but a notre dame graduate and uh with

48

00:02:03,590 --> 00:02:01,360

your school playing in the bcs

49

00:02:05,030 --> 00:02:03,600

championship game i know you're looking

50

00:02:07,030 --> 00:02:05,040

forward to that i'm just wondering are

51
00:02:12,309 --> 00:02:07,040
you going to be able to listen to that

52
00:02:16,869 --> 00:02:14,550
well peter and nowadays we have on

53
00:02:18,550 --> 00:02:16,879
occasion the chance uh if if the data

54
00:02:20,790 --> 00:02:18,560
rate's low for science and that sort of

55
00:02:22,309 --> 00:02:20,800
thing to get streaming video up here

56
00:02:24,949 --> 00:02:22,319
through net meeting the same way we do

57
00:02:27,350 --> 00:02:24,959
video cons and this sort of thing so it

58
00:02:28,949 --> 00:02:27,360
comes up to us and we have some breaks

59
00:02:30,390 --> 00:02:28,959
and coverage but i have been able to

60
00:02:32,070 --> 00:02:30,400
watch several of the football games this

61
00:02:33,509 --> 00:02:32,080
year not just notre dame games but a lot

62
00:02:35,190 --> 00:02:33,519
of college football games we were

63
00:02:37,110 --> 00:02:35,200

watching some navy when sonny was up

64

00:02:38,710 --> 00:02:37,120

here as well so it's a lot of fun to

65

00:02:40,550 --> 00:02:38,720

watch those and i i hope to be able to

66

00:02:42,550 --> 00:02:40,560

watch that game i looked at the timing

67

00:02:44,309 --> 00:02:42,560

it's really bad timing because it's a

68

00:02:46,630 --> 00:02:44,319

monday night it'll probably start here

69

00:02:48,949 --> 00:02:46,640

uh maybe 1 a.m or something like that i

70

00:02:50,229 --> 00:02:48,959

think it's 8 pm in miami and and i'm

71

00:02:51,750 --> 00:02:50,239

going to be up all night watching that

72

00:02:53,190 --> 00:02:51,760

game so houston if you're still paying

73

00:02:58,470 --> 00:02:53,200

attention i'm probably going to need uh

74

00:03:01,350 --> 00:02:59,990

well kevin this is bill harwood at

75

00:03:03,990 --> 00:03:01,360

kennedy space center you know as a long

76

00:03:05,830 --> 00:03:04,000

time sec fan i i have to tell you

77

00:03:08,470 --> 00:03:05,840

there's a nine point spread right now in

78

00:03:12,710 --> 00:03:08,480

favor of bama you you feel like making

79

00:03:19,110 --> 00:03:17,030

uh let me see uh probably not uh but i i

80

00:03:20,470 --> 00:03:19,120

do think uh defense is going to be a big

81

00:03:23,350 --> 00:03:20,480

part of that game

82

00:03:25,990 --> 00:03:23,360

and uh i think if we can keep

83

00:03:28,149 --> 00:03:26,000

keep the scores low we have a chance i i

84

00:03:29,430 --> 00:03:28,159

believe it's anybody's game both teams

85

00:03:31,589 --> 00:03:29,440

are excellent i watched them both i

86

00:03:33,830 --> 00:03:31,599

watched the alabama georgia game as well

87

00:03:35,750 --> 00:03:33,840

fantastic teams it's just it's going to

88

00:03:38,229 --> 00:03:35,760

be a great event and i'm really looking

89

00:03:39,750 --> 00:03:38,239

forward to it i get to spend a lot of

90

00:03:41,830 --> 00:03:39,760

time chattering with the people in

91

00:03:43,990 --> 00:03:41,840

huntsville and so we get to talk about a

92

00:03:47,430 --> 00:03:44,000

little bit on the loops too so it'll be

93

00:03:48,949 --> 00:03:47,440

it'll be a great day

94

00:03:50,789 --> 00:03:48,959

kevin let me change gears a little bit

95

00:03:52,470 --> 00:03:50,799

in one of the more jarring segways of an

96

00:03:54,070 --> 00:03:52,480

interview like this

97

00:03:55,830 --> 00:03:54,080

yesterday the the national research

98

00:03:57,429 --> 00:03:55,840

council came out with a report that

99

00:03:59,030 --> 00:03:57,439

raised some questions or they were

100

00:04:00,869 --> 00:03:59,040

concerned that there's not a national

101
00:04:02,710 --> 00:04:00,879
consensus as they put it on where we're

102
00:04:04,309 --> 00:04:02,720
going in space

103
00:04:06,710 --> 00:04:04,319
and they said that this presumed goal of

104
00:04:08,309 --> 00:04:06,720
going to an asteroid hasn't generated

105
00:04:10,630 --> 00:04:08,319
much widespread support in the public

106
00:04:12,229 --> 00:04:10,640
and even at nasa and i know you haven't

107
00:04:13,589 --> 00:04:12,239
had a chance to read that or think about

108
00:04:15,830 --> 00:04:13,599
it you're focused on your work up there

109
00:04:17,749 --> 00:04:15,840
but what are your thoughts about nasa's

110
00:04:20,069 --> 00:04:17,759
long-term strategy

111
00:04:24,469 --> 00:04:20,079
are you a fan of the presumed asteroid

112
00:04:29,350 --> 00:04:27,350
well i'm a fan of it all i i think an

113
00:04:30,710 --> 00:04:29,360

asteroid is a very very challenging

114

00:04:33,270 --> 00:04:30,720

thing to do

115

00:04:35,510 --> 00:04:33,280

there are some options on the table

116

00:04:37,430 --> 00:04:35,520

the there are people who are much bigger

117

00:04:39,670 --> 00:04:37,440

experts on it than i am the ease of

118

00:04:41,270 --> 00:04:39,680

getting there the ease of getting back

119

00:04:44,790 --> 00:04:41,280

there have been some great studies at

120

00:04:46,710 --> 00:04:44,800

nasa with with i think the rats team and

121

00:04:49,350 --> 00:04:46,720

also the nemo crew have looked at

122

00:04:51,590 --> 00:04:49,360

asteroid operations and they're they're

123

00:04:53,189 --> 00:04:51,600

much better versed in uh the

124

00:04:55,110 --> 00:04:53,199

practicality of doing those sorts of

125

00:04:58,629 --> 00:04:55,120

things than i am i've really really been

126

00:05:00,469 --> 00:04:58,639

focusing on space station racks uh

127

00:05:02,950 --> 00:05:00,479

maintenance and those sorts of things

128

00:05:05,749 --> 00:05:02,960

but uh i would like to see us have you

129

00:05:07,670 --> 00:05:05,759

know put a plan uh materialize a plan

130

00:05:09,510 --> 00:05:07,680

and and kind of get going on of course i

131

00:05:11,590 --> 00:05:09,520

think we all agree on that that we need

132

00:05:13,670 --> 00:05:11,600

a good plan and we need a good target in

133

00:05:15,590 --> 00:05:13,680

order to move move forward in the right

134

00:05:16,950 --> 00:05:15,600

way so i'm looking forward to getting

135

00:05:19,350 --> 00:05:16,960

that out there on the table and getting

136

00:05:22,950 --> 00:05:21,270

you know it seems like you know it's

137

00:05:24,950 --> 00:05:22,960

impossible in today's environment to

138

00:05:26,310 --> 00:05:24,960

have a an agreement on something like

139

00:05:28,070 --> 00:05:26,320

apollo you know the conditions are

140

00:05:29,510 --> 00:05:28,080

different we're not in a cold war etc

141

00:05:30,710 --> 00:05:29,520

etc

142

00:05:31,909 --> 00:05:30,720

but do you think it's going to be hard

143

00:05:33,510 --> 00:05:31,919

in this environment with the budget

144

00:05:34,310 --> 00:05:33,520

pressures that are out there to get the

145

00:05:36,150 --> 00:05:34,320

people

146

00:05:38,550 --> 00:05:36,160

or the public or congress united behind

147

00:05:42,870 --> 00:05:38,560

a goal that will cost money down the

148

00:05:47,110 --> 00:05:45,189

absolutely you know that the technical

149

00:05:49,189 --> 00:05:47,120

part is very challenging

150

00:05:52,070 --> 00:05:49,199

the part that i'm in i'm an engineer and

151
00:05:54,550 --> 00:05:52,080
pilot operational by background and and

152
00:05:57,189 --> 00:05:54,560
the the operational part is very very

153
00:06:00,150 --> 00:05:57,199
difficult in itself nowadays the

154
00:06:02,150 --> 00:06:00,160
consensus we know it takes a long time

155
00:06:04,710 --> 00:06:02,160
to get to some of these goals

156
00:06:07,350 --> 00:06:04,720
and uh much much longer than you know

157
00:06:09,430 --> 00:06:07,360
the the turnover rate of of politics

158
00:06:11,909 --> 00:06:09,440
seems to be in so we need to put

159
00:06:14,790 --> 00:06:11,919
something in place that can last uh this

160
00:06:16,629 --> 00:06:14,800
really is about doing things for people

161
00:06:18,309 --> 00:06:16,639
40 years down the road 100 years down

162
00:06:20,870 --> 00:06:18,319
the road even a thousand years down the

163
00:06:22,469 --> 00:06:20,880

road and making these first steps so

164

00:06:23,670 --> 00:06:22,479

it's a very challenging thing for us

165

00:06:25,110 --> 00:06:23,680

it's something i'd actually be

166

00:06:27,670 --> 00:06:25,120

interested in working on when i come

167

00:06:29,110 --> 00:06:27,680

home finding a way to get a consensus

168

00:06:30,469 --> 00:06:29,120

finding a path forward and making it

169

00:06:32,309 --> 00:06:30,479

work and i know there are some experts

170

00:06:34,070 --> 00:06:32,319

out there already working on it but it's

171

00:06:35,670 --> 00:06:34,080

as big a challenge for us right now as

172

00:06:37,830 --> 00:06:35,680

the technical is

173

00:06:39,749 --> 00:06:37,840

kevin it's peter again and you mentioned

174

00:06:42,469 --> 00:06:39,759

40 years it was 40 years ago tomorrow

175

00:06:45,909 --> 00:06:42,479

that apollo 17 launched on the very last

176

00:06:48,550 --> 00:06:45,919

human uh flight to the moon uh

177

00:06:50,629 --> 00:06:48,560

and i think a lot of us really thought

178

00:06:52,390 --> 00:06:50,639

we would have gone further out in space

179

00:06:55,110 --> 00:06:52,400

deep space even back to the moon or

180

00:06:57,430 --> 00:06:55,120

maybe by maybe to mars by now uh your

181

00:06:59,029 --> 00:06:57,440

thoughts on that and uh you know should

182

00:07:04,469 --> 00:06:59,039

we have taken a different course over

183

00:07:08,469 --> 00:07:06,550

you know honestly i i think the course

184

00:07:10,550 --> 00:07:08,479

the course has been okay the the space

185

00:07:13,189 --> 00:07:10,560

shuttle we're going to look back on as

186

00:07:15,430 --> 00:07:13,199

an absolutely outstanding program root

187

00:07:17,430 --> 00:07:15,440

kind of routine access we we know it's

188

00:07:19,830 --> 00:07:17,440

not routine but we found we found the

189

00:07:21,830 --> 00:07:19,840

hard parts and we keep solving problems

190

00:07:24,550 --> 00:07:21,840

it was a big flight test and development

191

00:07:26,550 --> 00:07:24,560

program that that proved very very

192

00:07:28,150 --> 00:07:26,560

fruitful if you will the space station

193

00:07:30,150 --> 00:07:28,160

is going to do the same thing for us for

194

00:07:31,670 --> 00:07:30,160

living and spending time in space you

195

00:07:33,589 --> 00:07:31,680

know we got this one year mission coming

196

00:07:35,510 --> 00:07:33,599

up with um

197

00:07:37,110 --> 00:07:35,520

with an astronaut and cosmonaut ours

198

00:07:39,589 --> 00:07:37,120

ours will be scott kelly coming on board

199

00:07:41,510 --> 00:07:39,599

with kornienko and we're going to look

200

00:07:43,749 --> 00:07:41,520

at people spending longer times in space

201

00:07:45,670 --> 00:07:43,759

so we can do a good can we we can move

202

00:07:47,589 --> 00:07:45,680

on out there i think it's just harder to

203

00:07:49,589 --> 00:07:47,599

go those long distances and spend a lot

204

00:07:52,309 --> 00:07:49,599

of time in space it's just harder to do

205

00:07:54,150 --> 00:07:52,319

than kind of we envision so we we move

206

00:07:56,150 --> 00:07:54,160

forward to the moon it's moon's kind of

207

00:07:58,230 --> 00:07:56,160

in our backyard it's a great place to go

208

00:07:59,670 --> 00:07:58,240

back and practice if we do we decided to

209

00:08:01,430 --> 00:07:59,680

do that but

210

00:08:03,350 --> 00:08:01,440

space flight is just difficult that's

211

00:08:05,749 --> 00:08:03,360

that's all there is to it and sometimes

212

00:08:08,710 --> 00:08:05,759

uh our our eyes are bigger than our

213

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

pocketbooks or or then our abilities

214

00:08:12,309 --> 00:08:10,720

that's a really good point and along

215

00:08:14,790 --> 00:08:12,319

those lines right now there's a huge

216

00:08:17,350 --> 00:08:14,800

financial crisis in washington and uh

217

00:08:19,589 --> 00:08:17,360

we're uh less than four weeks from going

218

00:08:21,510 --> 00:08:19,599

off the so-called fiscal cliff and that

219

00:08:23,589 --> 00:08:21,520

affects every government operation i'm

220

00:08:26,550 --> 00:08:23,599

wondering if you have been told to get

221

00:08:28,070 --> 00:08:26,560

ready for any changes in operations for

222

00:08:29,749 --> 00:08:28,080

the space station

223

00:08:34,230 --> 00:08:29,759

should this actually happen at the end

224

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

uh you know i haven't really heard too

225

00:08:39,430 --> 00:08:38,080

much about that to be honest you know

226

00:08:41,909 --> 00:08:39,440

we've i think we've had those cliffs

227

00:08:44,149 --> 00:08:41,919

before and and things have worked out uh

228

00:08:45,670 --> 00:08:44,159

you know i told my two cosmonauts uh

229

00:08:47,509 --> 00:08:45,680

colleagues when i came up here be

230

00:08:49,030 --> 00:08:47,519

prepared for a shorter flight be

231

00:08:50,790 --> 00:08:49,040

prepared for a one year flight you never

232

00:08:53,430 --> 00:08:50,800

know what could happen in terms of

233

00:08:55,269 --> 00:08:53,440

vehicles or uh finances and stuff so you

234

00:08:56,630 --> 00:08:55,279

know if if something happens and we stay

235

00:08:58,630 --> 00:08:56,640

up here longer

236

00:09:00,550 --> 00:08:58,640

no big deal i think

237

00:09:02,710 --> 00:09:00,560

for us on board at least

238

00:09:04,230 --> 00:09:02,720

i think the operations on board

239

00:09:05,670 --> 00:09:04,240

you know they're they're kind of planned

240

00:09:08,070 --> 00:09:05,680

and budgeted well in advance i think

241

00:09:09,750 --> 00:09:08,080

we'll continue continue the operations

242

00:09:12,470 --> 00:09:09,760

we've got experiments going literally

243

00:09:14,230 --> 00:09:12,480

above my head and beside me and out in

244

00:09:15,750 --> 00:09:14,240

the japanese lab and in the columbus lab

245

00:09:17,829 --> 00:09:15,760

as well as destiny here in the russian

246

00:09:19,829 --> 00:09:17,839

segment i think those will continue and

247

00:09:23,190 --> 00:09:19,839

we'll we'll be fruitful that that's

248

00:09:26,150 --> 00:09:24,870

kevin it's bill harwood again and uh you

249

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

mentioned the year-long flight with

250

00:09:29,750 --> 00:09:28,399

scott kelly and and uh cornyinko and you

251

00:09:31,590 --> 00:09:29,760

know julie robinson the program

252

00:09:33,269 --> 00:09:31,600

scientist we were talking about uh you

253

00:09:34,949 --> 00:09:33,279

know behavioral things psychological

254

00:09:36,790 --> 00:09:34,959

issues you know the hardships of a

255

00:09:38,389 --> 00:09:36,800

one-year flight and she said one of the

256

00:09:40,150 --> 00:09:38,399

things that tends to offset that a

257

00:09:41,750 --> 00:09:40,160

little bit is it's just really cool to

258

00:09:43,509 --> 00:09:41,760

be up there

259

00:09:45,670 --> 00:09:43,519

what's your impression of life in space

260

00:09:49,590 --> 00:09:45,680

that you've been up there now for

261

00:09:54,230 --> 00:09:52,310

she's absolutely right uh when i when i

262

00:09:55,910 --> 00:09:54,240

wake up in the morning i'm usually a

263

00:09:57,829 --> 00:09:55,920

little disoriented i'm in my sleeping

264

00:09:59,350 --> 00:09:57,839

bag but i can never quite figure out

265

00:10:00,870 --> 00:09:59,360

which walls which and then i realize i'm

266

00:10:02,949 --> 00:10:00,880

in space i'm strapped to the wall i have

267

00:10:04,870 --> 00:10:02,959

to be where i where i tuck myself in at

268

00:10:07,190 --> 00:10:04,880

night and i flowed out into the the

269

00:10:08,870 --> 00:10:07,200

module and it's still dark because i've

270

00:10:11,590 --> 00:10:08,880

turned the lights off and it's just it's

271

00:10:13,829 --> 00:10:11,600

just magic being here and i just i love

272

00:10:15,430 --> 00:10:13,839

being here every single day i know my

273

00:10:18,230 --> 00:10:15,440

days are numbered here even though i

274

00:10:20,550 --> 00:10:18,240

still have roughly 100 of them left as

275

00:10:23,269 --> 00:10:20,560

soon soon enough it'll be over and it'll

276

00:10:25,670 --> 00:10:23,279

look back in and it'll be like a dream

277

00:10:27,190 --> 00:10:25,680

scott and and misha have both been here

278

00:10:29,350 --> 00:10:27,200

before they know exactly what they're

279

00:10:32,150 --> 00:10:29,360

getting into the exercise equipment is

280

00:10:34,389 --> 00:10:32,160

fantastic the psychological support now

281

00:10:37,590 --> 00:10:34,399

we get from houston and for moscow are

282

00:10:39,910 --> 00:10:37,600

also fantastic and i can watch football

283

00:10:41,350 --> 00:10:39,920

games after all so you know it's it's

284

00:10:43,990 --> 00:10:41,360

really great being here there are

285

00:10:45,590 --> 00:10:44,000

certain things you miss for sure and i

286

00:10:47,350 --> 00:10:45,600

think the fact that they come here

287

00:10:49,750 --> 00:10:47,360

knowing they're staying a year for those

288

00:10:52,389 --> 00:10:49,760

two individuals it won't be it won't be

289

00:10:54,790 --> 00:10:52,399

a real psychological hardship it will be

290

00:10:56,310 --> 00:10:54,800

uh something to prove that we can do it

291

00:10:57,750 --> 00:10:56,320

with the with the right individuals in

292

00:10:59,910 --> 00:10:57,760

the right preparation

293

00:11:02,310 --> 00:10:59,920

kevin thank you so much uh from both of

294

00:11:03,509 --> 00:11:02,320

us and from cbs news merry christmas and

295

00:11:06,870 --> 00:11:03,519

we look forward to talking with you

296

00:11:09,910 --> 00:11:08,389

all right well thank you very much too

297

00:11:11,750 --> 00:11:09,920

it's great to be here

298

00:11:13,509 --> 00:11:11,760

i'm really here

299

00:11:15,910 --> 00:11:13,519

at station this is houston acr that

300

00:11:17,910 --> 00:11:15,920

concludes the cbs portion of the event

301
00:11:22,550 --> 00:11:17,920
please stand by for a voice check from

302
00:11:22,560 --> 00:11:26,310
copy that

303
00:11:29,670 --> 00:11:28,230
excellent carol costello is your anchor

304
00:11:31,350 --> 00:11:29,680
carol she'll say hello now we're in a

305
00:11:35,110 --> 00:11:31,360
commercial break we'll be live in about

306
00:11:38,710 --> 00:11:37,190
i copy that

307
00:11:39,910 --> 00:11:38,720
carol

308
00:11:40,829 --> 00:11:39,920
do you hear me

309
00:11:46,389 --> 00:11:40,839
oh

310
00:11:49,670 --> 00:11:48,069
yes i can we were a little afraid that

311
00:11:54,310 --> 00:11:49,680
we wouldn't but we're so glad to have

312
00:11:59,750 --> 00:11:56,230
oh you're welcome am i speaking to carol

313
00:12:03,750 --> 00:12:01,509

yes but we're not on the air quite yet

314

00:12:06,470 --> 00:12:03,760

we have um another minute or so and

315

00:12:10,150 --> 00:12:06,480

we'll be live on the air so stand by and

316

00:12:25,430 --> 00:12:12,230

okay happy to stand by you should take a

317

00:12:25,440 --> 00:12:42,790

about 20 seconds back on break

318

00:12:42,800 --> 00:12:47,750

all right here we go

319

00:12:51,509 --> 00:12:49,430

how would you like to have a view like

320

00:12:53,269 --> 00:12:51,519

this out of your window

321

00:12:55,190 --> 00:12:53,279

isn't that beautiful it's a nighttime

322

00:12:57,350 --> 00:12:55,200

image of earth see north america in the

323

00:12:59,509 --> 00:12:57,360

upper left corner of your screen that's

324

00:13:01,430 --> 00:12:59,519

cool pictures actually some positive

325

00:13:03,829 --> 00:13:01,440

images received by a satellite from

326

00:13:05,430 --> 00:13:03,839

april and october kevin ford doesn't

327

00:13:07,590 --> 00:13:05,440

have to wait for nasa to release

328

00:13:10,310 --> 00:13:07,600

pictures like that he sees views from

329

00:13:12,710 --> 00:13:10,320

space every day kevin is the expedition

330

00:13:14,230 --> 00:13:12,720

34 commander of the international space

331

00:13:15,590 --> 00:13:14,240

station just a warning before we start

332

00:13:17,509 --> 00:13:15,600

speaking kevin i just want to tell our

333

00:13:19,910 --> 00:13:17,519

viewers it's about an eight second delay

334

00:13:23,030 --> 00:13:19,920

because we're transmitting a long way

335

00:13:26,710 --> 00:13:23,040

this morning so um is it morning or

336

00:13:31,670 --> 00:13:29,110

it's uh already afternoon on board the

337

00:13:33,829 --> 00:13:31,680

space station and uh we've already done

338

00:13:35,190 --> 00:13:33,839

a almost what feels to me like a full

339

00:13:37,829 --> 00:13:35,200

day's work but i have a little bit more

340

00:13:40,069 --> 00:13:37,839

work after the uh interview right now so

341

00:13:42,069 --> 00:13:40,079

uh right now uh we are in a night pass

342

00:13:43,750 --> 00:13:42,079

we're in the northern hemisphere right

343

00:13:45,990 --> 00:13:43,760

now out over the pacific ocean and it's

344

00:13:47,750 --> 00:13:46,000

it's dark outside right now but uh we'll

345

00:13:51,590 --> 00:13:47,760

be in light in just just a matter of

346

00:13:54,310 --> 00:13:52,949

i was just going to ask you that how can

347

00:13:56,629 --> 00:13:54,320

you tell the difference between night

348

00:14:00,829 --> 00:13:56,639

and day because you know in my mind it's

349

00:14:05,269 --> 00:14:03,350

there well uh

350

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

this space is dark but of course when

351
00:14:09,990 --> 00:14:07,040
we're on the sun side of the earth we're

352
00:14:12,710 --> 00:14:10,000
in full illumination and we have all the

353
00:14:14,389 --> 00:14:12,720
uh reflection of the earth below us the

354
00:14:16,230 --> 00:14:14,399
beautiful blue earth and uh we're in the

355
00:14:18,150 --> 00:14:16,240
daylight only when we're on the back

356
00:14:20,470 --> 00:14:18,160
side on the center opposite the side

357
00:14:22,310 --> 00:14:20,480
opposite the sun it's it seems just like

358
00:14:25,350 --> 00:14:22,320
night to us too but we go around the

359
00:14:27,590 --> 00:14:25,360
earth once every 90 minutes so

360
00:14:29,829 --> 00:14:27,600
half about half of that on average and

361
00:14:31,910 --> 00:14:29,839
we're in the daytime and half at night

362
00:14:33,430 --> 00:14:31,920
inside the destiny module right here in

363
00:14:35,590 --> 00:14:33,440

the lab i can't really tell there's a

364

00:14:37,030 --> 00:14:35,600

window below me but there's equipment in

365

00:14:38,629 --> 00:14:37,040

it and it's covered up so i can't see

366

00:14:40,150 --> 00:14:38,639

out of it at the moment we do have some

367

00:14:41,829 --> 00:14:40,160

other windows around space station

368

00:14:43,829 --> 00:14:41,839

anytime i float by a window i can tell

369

00:14:45,910 --> 00:14:43,839

if it's out outside is lit or if it's

370

00:14:47,509 --> 00:14:45,920

dark outside but when we're working

371

00:14:50,790 --> 00:14:47,519

it's just day for us with that with the

372

00:14:54,470 --> 00:14:52,230

i know i should ask you about your

373

00:14:56,949 --> 00:14:54,480

research but i but i really want to know

374

00:15:02,389 --> 00:14:56,959

what is the coolest thing you have seen

375

00:15:08,069 --> 00:15:05,670

well the coolest thing i've seen so far

376

00:15:10,310 --> 00:15:08,079

in terms of like me being an astronaut

377

00:15:13,430 --> 00:15:10,320

and seeing something unusual

378

00:15:16,470 --> 00:15:13,440

was the the rendezvous the docking of a

379

00:15:18,310 --> 00:15:16,480

progress spaceship we also saw it launch

380

00:15:19,829 --> 00:15:18,320

out of kazakhstan right behind us it

381

00:15:21,829 --> 00:15:19,839

rendezvoused with us the same day so it

382

00:15:23,590 --> 00:15:21,839

was very close to us when it launched

383

00:15:26,069 --> 00:15:23,600

and we could see the smoke trail come up

384

00:15:27,750 --> 00:15:26,079

all the way into space to our altitude

385

00:15:29,670 --> 00:15:27,760

which is really a remarkable thing to

386

00:15:31,910 --> 00:15:29,680

get to see and it's rare and the other

387

00:15:34,069 --> 00:15:31,920

thing was the night my colleagues suni

388

00:15:36,870 --> 00:15:34,079

williams akio side and yuri malenchenko

389

00:15:38,790 --> 00:15:36,880

undocked a few weeks ago

390

00:15:40,629 --> 00:15:38,800

they did their burn and they entered the

391

00:15:42,870 --> 00:15:40,639

atmosphere right below us in the night

392

00:15:45,670 --> 00:15:42,880

time and i got to see their their

393

00:15:47,509 --> 00:15:45,680

spaceship it comes apart by design into

394

00:15:49,110 --> 00:15:47,519

three pieces and i got to see the pieces

395

00:15:51,030 --> 00:15:49,120

that were supposed to burn up burn up

396

00:15:53,590 --> 00:15:51,040

and trail behind them and their little

397

00:15:55,829 --> 00:15:53,600

spacecraft zoom out in front but that

398

00:15:57,350 --> 00:15:55,839

that all uh that all kind of competes

399

00:15:59,030 --> 00:15:57,360

with just the average everyday view of

400

00:16:00,790 --> 00:15:59,040

the earth which is spectacular whenever

401
00:16:03,269 --> 00:16:00,800
you fly over anything the amazon the

402
00:16:04,949 --> 00:16:03,279
rocky mountains uh the northeast

403
00:16:06,629 --> 00:16:04,959
whatever it is just to see those

404
00:16:08,310 --> 00:16:06,639
beautiful things out there i saw typhoon

405
00:16:12,790 --> 00:16:08,320
bofa the other day it's just amazing to

406
00:16:17,350 --> 00:16:15,350
so so the uh scott kelly i know he's

407
00:16:18,949 --> 00:16:17,360
training for a bit before he before he

408
00:16:21,430 --> 00:16:18,959
goes up to the international space

409
00:16:23,189 --> 00:16:21,440
station but um did you hear that he's

410
00:16:24,790 --> 00:16:23,199
going to be there for a year i don't

411
00:16:26,389 --> 00:16:24,800
know how long your tenure is in the

412
00:16:29,030 --> 00:16:26,399
international space station but can you

413
00:16:33,269 --> 00:16:29,040

imagine staying up there for one entire

414

00:16:37,430 --> 00:16:35,189

yes i can

415

00:16:39,110 --> 00:16:37,440

and actually when we come up we we

416

00:16:40,629 --> 00:16:39,120

generally come up here for five to six

417

00:16:42,310 --> 00:16:40,639

month expeditions

418

00:16:44,150 --> 00:16:42,320

and might will be a little just a little

419

00:16:47,430 --> 00:16:44,160

less than five if we go home one time

420

00:16:49,749 --> 00:16:47,440

march 15th but um i've mentioned to my

421

00:16:51,590 --> 00:16:49,759

cosmonaut colleagues hey be prepared you

422

00:16:52,710 --> 00:16:51,600

know something might happen a technical

423

00:16:54,150 --> 00:16:52,720

problem

424

00:16:56,310 --> 00:16:54,160

any kind of thing might happen and we

425

00:16:58,629 --> 00:16:56,320

may stay here longer we could get a very

426
00:17:00,550 --> 00:16:58,639
long stay you just never know in space

427
00:17:02,230 --> 00:17:00,560
flight it really depends on the health

428
00:17:04,390 --> 00:17:02,240
of the vehicles and the program

429
00:17:06,069 --> 00:17:04,400
management and all that sort of thing so

430
00:17:08,150 --> 00:17:06,079
there's a little uncertainty involved

431
00:17:11,590 --> 00:17:08,160
but five months you know you're mentally

432
00:17:13,590 --> 00:17:11,600
prepared for that i know scott and misha

433
00:17:15,750 --> 00:17:13,600
konyenko when they come they'll be

434
00:17:16,789 --> 00:17:15,760
mentally prepared for the full year

435
00:17:21,350 --> 00:17:16,799
and

436
00:17:24,230 --> 00:17:21,360
do a great job the exercise equipment is

437
00:17:26,789 --> 00:17:24,240
good i sleep wonderful the work is very

438
00:17:29,110 --> 00:17:26,799

satisfying and fun so

439

00:17:31,430 --> 00:17:29,120

i i would love to do it too uh i

440

00:17:33,350 --> 00:17:31,440

congratulations to both of them it will

441

00:17:36,230 --> 00:17:33,360

be challenging but i think they're up

442

00:17:39,430 --> 00:17:38,070

okay before you go could you do a

443

00:17:41,190 --> 00:17:39,440

backflip for me because i've always

444

00:17:44,470 --> 00:17:41,200

wanted to see that the real thing in

445

00:17:52,470 --> 00:17:46,070

are we all done already i can't hardly

446

00:17:59,270 --> 00:17:54,150

oh i love that we'll be right back a

447

00:17:59,280 --> 00:18:03,190

you're welcome