



1
00:00:09,509 --> 00:00:06,470
here with me today i have

2
00:00:12,470 --> 00:00:09,519
nasa astronaut mike fossum who is a

3
00:00:14,789 --> 00:00:12,480
veteran of three space flights

4
00:00:17,189 --> 00:00:14,799
welcome mike thank you for coming and

5
00:00:19,109 --> 00:00:17,199
coming to talk with us basically he's uh

6
00:00:21,670 --> 00:00:19,119
three space flights two of them were

7
00:00:23,509 --> 00:00:21,680
aboard the uh space shuttle and then one

8
00:00:24,950 --> 00:00:23,519
more recently was aboard a soyuz so he

9
00:00:26,710 --> 00:00:24,960
knows what that ride is like and so he's

10
00:00:29,589 --> 00:00:26,720
here to talk to us about that and

11
00:00:32,310 --> 00:00:29,599
actually today as of today's exactly one

12
00:00:35,110 --> 00:00:32,320
month since you landed correct after 167

13
00:00:38,310 --> 00:00:35,120

days in space that's right 167 days in

14

00:00:40,549 --> 00:00:38,320

space we landed a month ago exactly and

15

00:00:41,830 --> 00:00:40,559

uh it's great to be in mission control

16

00:00:42,790 --> 00:00:41,840

watching uh

17

00:00:45,510 --> 00:00:42,800

uh

18

00:00:47,750 --> 00:00:45,520

don and his crew take off and head up to

19

00:00:49,830 --> 00:00:47,760

the space station don was my backup six

20

00:00:51,350 --> 00:00:49,840

months ago when we launched and so we

21

00:00:53,350 --> 00:00:51,360

spent a lot of time training around the

22

00:00:55,430 --> 00:00:53,360

globe together and it's really exciting

23

00:00:57,350 --> 00:00:55,440

to be in here this morning with his

24

00:00:59,189 --> 00:00:57,360

special guests in the viewing room to

25

00:01:00,069 --> 00:00:59,199

watch the launch and kind of relive it

26

00:01:01,590 --> 00:01:00,079

for me

27

00:01:03,189 --> 00:01:01,600

and that was an early morning for you i

28

00:01:04,710 --> 00:01:03,199

suppose huh

29

00:01:05,910 --> 00:01:04,720

you bet it's an early day but that's

30

00:01:07,670 --> 00:01:05,920

okay

31

00:01:10,310 --> 00:01:07,680

all right well um let's just talk about

32

00:01:13,510 --> 00:01:10,320

that launch experience if you will um

33

00:01:15,750 --> 00:01:13,520

let's start by what's your day begin i

34

00:01:17,910 --> 00:01:15,760

mean how is how is that morning

35

00:01:19,429 --> 00:01:17,920

well your days really get messed up uh

36

00:01:21,429 --> 00:01:19,439

during that time as you're leading up to

37

00:01:22,469 --> 00:01:21,439

the launch because for them the launch

38

00:01:24,469 --> 00:01:22,479

was uh

39

00:01:27,030 --> 00:01:24,479

uh you know it was night when they

40

00:01:29,990 --> 00:01:27,040

launched roughly and i don't know the

41

00:01:32,710 --> 00:01:30,000

local time there it was about 6 20 in

42

00:01:35,429 --> 00:01:32,720

the in the evening seven no seven about

43

00:01:37,030 --> 00:01:35,439

7 30 or so 7 20 in the evening anyway so

44

00:01:39,830 --> 00:01:37,040

that they're about 12 hours out from

45

00:01:41,109 --> 00:01:39,840

houston and they uh so this one wasn't

46

00:01:43,350 --> 00:01:41,119

too bad they didn't have to do that much

47

00:01:45,429 --> 00:01:43,360

of a sleep shift but

48

00:01:47,350 --> 00:01:45,439

but they the the days are just busy and

49

00:01:49,270 --> 00:01:47,360

they'll usually will take a nap because

50

00:01:51,350 --> 00:01:49,280

the day ends up being when they launch

51
00:01:52,950 --> 00:01:51,360
that time of evening they'll be really

52
00:01:55,350 --> 00:01:52,960
busy late into the night so they'll take

53
00:01:57,590 --> 00:01:55,360
a nap before launch which is a little

54
00:01:59,670 --> 00:01:57,600
hard to do but you are kind of tired

55
00:02:01,510 --> 00:01:59,680
from the launch preparations

56
00:02:04,870 --> 00:02:01,520
we go to baikonur cosmodrome in

57
00:02:07,030 --> 00:02:04,880
kazakhstan about two weeks before launch

58
00:02:09,270 --> 00:02:07,040
to go through the fit checks and final

59
00:02:11,110 --> 00:02:09,280
launch preparations it's also a

60
00:02:12,390 --> 00:02:11,120
quarantine period where we're isolated

61
00:02:14,390 --> 00:02:12,400
from other people that haven't been

62
00:02:16,869 --> 00:02:14,400
screened by doctors to help make sure

63
00:02:18,229 --> 00:02:16,879

that we don't launch with a cold or flu

64

00:02:19,830 --> 00:02:18,239

or something like that because that

65

00:02:21,350 --> 00:02:19,840

would be really miserable and could

66

00:02:23,190 --> 00:02:21,360

affect the mission

67

00:02:24,710 --> 00:02:23,200

so it's a quarantined period it's also a

68

00:02:26,470 --> 00:02:24,720

preparation period

69

00:02:29,270 --> 00:02:26,480

and it all builds up

70

00:02:31,270 --> 00:02:29,280

uh you know to the launch day

71

00:02:32,309 --> 00:02:31,280

which really you know gets started in

72

00:02:35,190 --> 00:02:32,319

earnest

73

00:02:36,550 --> 00:02:35,200

about five hours before launch as you're

74

00:02:37,670 --> 00:02:36,560

going through some of the things there's

75

00:02:42,229 --> 00:02:37,680

a

76

00:02:44,869 --> 00:02:42,239

your room

77

00:02:46,869 --> 00:02:44,879

you sign the door and we saw the video

78

00:02:48,949 --> 00:02:46,879

of the of the guys signing the doors

79

00:02:49,830 --> 00:02:48,959

they left this morning and don and his

80

00:02:52,309 --> 00:02:49,840

uh

81

00:02:54,949 --> 00:02:52,319

typical way he has a lot of fun doing

82

00:02:57,190 --> 00:02:54,959

this uh and and it's neat to see the

83

00:02:59,910 --> 00:02:57,200

history that are on these doors as each

84

00:03:01,350 --> 00:02:59,920

person gets to add his signature and the

85

00:03:03,830 --> 00:03:01,360

date of the launch

86

00:03:06,229 --> 00:03:03,840

uh to the door and so these the room

87

00:03:09,110 --> 00:03:06,239

that you stay in and the door to that

88

00:03:11,030 --> 00:03:09,120

room becomes part of the space record

89

00:03:12,949 --> 00:03:11,040

which is kind of a neat thing that must

90

00:03:14,470 --> 00:03:12,959

be pretty exciting and i'm just even

91

00:03:16,630 --> 00:03:14,480

just seeing that door i'm here we're

92

00:03:18,550 --> 00:03:16,640

seeing some footage of that that was

93

00:03:20,390 --> 00:03:18,560

taken earlier this morning but

94

00:03:22,470 --> 00:03:20,400

being able to see some of your other

95

00:03:24,630 --> 00:03:22,480

crew members i mean your your colleagues

96

00:03:27,030 --> 00:03:24,640

you know their names up there you bet

97

00:03:29,430 --> 00:03:27,040

you bet and so is uh mickey and the boys

98

00:03:31,910 --> 00:03:29,440

were there with them and you know your

99

00:03:33,589 --> 00:03:31,920

spouse's families are there as part of

100

00:03:35,830 --> 00:03:33,599

that as you're actually signing the door

101
00:03:38,070 --> 00:03:35,840
and and then walking out for the there's

102
00:03:40,309 --> 00:03:38,080
a ceremonial greeting with a russian

103
00:03:42,309 --> 00:03:40,319
orthodox priest who gives you a blessing

104
00:03:44,070 --> 00:03:42,319
as you head out the door it's a

105
00:03:47,350 --> 00:03:44,080
it's really a special time and the whole

106
00:03:49,830 --> 00:03:47,360
the whole process is is just

107
00:03:52,309 --> 00:03:49,840
awash in traditions as you walk out of

108
00:03:54,070 --> 00:03:52,319
the building playing the music i don't

109
00:03:55,190 --> 00:03:54,080
know what that music is but it's really

110
00:03:56,789 --> 00:03:55,200
cool and

111
00:03:59,190 --> 00:03:56,799
of course today it was really cold but

112
00:04:00,630 --> 00:03:59,200
the family and friends you guests that

113
00:04:03,110 --> 00:04:00,640

have come to the other side of the globe

114

00:04:05,350 --> 00:04:03,120

or there to uh to

115

00:04:07,110 --> 00:04:05,360

wave you know wave to you

116

00:04:08,630 --> 00:04:07,120

and then finally you get on the buses

117

00:04:10,309 --> 00:04:08,640

and you leave the

118

00:04:12,070 --> 00:04:10,319

quarantine facility what we call the

119

00:04:14,710 --> 00:04:12,080

cosmonaut hotel

120

00:04:17,349 --> 00:04:14,720

and head out toward the

121

00:04:19,830 --> 00:04:17,359

the launch facility where we you know go

122

00:04:22,550 --> 00:04:19,840

through the final preparations get in

123

00:04:24,230 --> 00:04:22,560

the suits and we go as part of the suit

124

00:04:26,710 --> 00:04:24,240

up then there's a pressure check of each

125

00:04:29,030 --> 00:04:26,720

suit to verify the integrity and make

126

00:04:30,870 --> 00:04:29,040

sure that it's all ready and this is all

127

00:04:33,110 --> 00:04:30,880

part of the part of the process that you

128

00:04:34,150 --> 00:04:33,120

go through one after the other

129

00:04:35,590 --> 00:04:34,160

uh

130

00:04:37,270 --> 00:04:35,600

getting through there and a little bit

131

00:04:39,189 --> 00:04:37,280

of an oddity with this

132

00:04:42,469 --> 00:04:39,199

is that it actually takes place in front

133

00:04:44,070 --> 00:04:42,479

of a large um a viewing gallery and so

134

00:04:47,030 --> 00:04:44,080

there's family

135

00:04:48,790 --> 00:04:47,040

uh friends and sometimes some press that

136

00:04:50,870 --> 00:04:48,800

are just a few feet away you know

137

00:04:52,469 --> 00:04:50,880

watching as we go through this process

138

00:04:53,990 --> 00:04:52,479

of inflating the suit

139

00:04:56,550 --> 00:04:54,000

to about uh

140

00:04:58,629 --> 00:04:56,560

40 of regular atmospheric pressure and

141

00:04:59,909 --> 00:04:58,639

make sure that it holds uh that it holds

142

00:05:01,830 --> 00:04:59,919

tight

143

00:05:03,270 --> 00:05:01,840

and uh it's i mean there's there's

144

00:05:04,790 --> 00:05:03,280

symbolism involved but it's of course

145

00:05:07,029 --> 00:05:04,800

very practical just to make sure there's

146

00:05:08,950 --> 00:05:07,039

no problems and at this point they still

147

00:05:11,670 --> 00:05:08,960

have time to deal with anything that

148

00:05:13,590 --> 00:05:11,680

comes up uh and now before you leave

149

00:05:15,670 --> 00:05:13,600

there then there's there is one last

150

00:05:17,830 --> 00:05:15,680

opportunity to uh to talk to your

151

00:05:20,950 --> 00:05:17,840

families through the glass and it's a

152

00:05:23,029 --> 00:05:20,960

it's a really special time and and

153

00:05:25,189 --> 00:05:23,039

once that's done it's time to walk out

154

00:05:27,430 --> 00:05:25,199

and and uh this is a very you know

155

00:05:29,430 --> 00:05:27,440

historic uh imagery here of the russian

156

00:05:31,430 --> 00:05:29,440

space program is that the whole crew

157

00:05:33,749 --> 00:05:31,440

walks out another the head of the

158

00:05:36,310 --> 00:05:33,759

russian space agency mr propulsion is

159

00:05:39,029 --> 00:05:36,320

there and uh so the crew checks in and

160

00:05:42,390 --> 00:05:39,039

basically says hey boss we're uh

161

00:05:44,629 --> 00:05:42,400

the crew is uh prepared and ready to go

162

00:05:45,590 --> 00:05:44,639

and it's uh it's really a neat thing of

163

00:05:47,590 --> 00:05:45,600

course the

164

00:05:49,749 --> 00:05:47,600

family friends and members of the press

165

00:05:50,629 --> 00:05:49,759

are watching from uh from alongside

166

00:05:53,510 --> 00:05:50,639

there

167

00:05:56,070 --> 00:05:53,520

and uh it's it's kind of an iconic image

168

00:05:57,670 --> 00:05:56,080

so here you're on the bus here when you

169

00:05:59,430 --> 00:05:57,680

do leave and you're heading out that way

170

00:06:01,110 --> 00:05:59,440

what are your thoughts

171

00:06:03,510 --> 00:06:01,120

well your thoughts are you know all the

172

00:06:05,189 --> 00:06:03,520

years of training and uh you know party

173

00:06:07,189 --> 00:06:05,199

is still coming to grips with the fact

174

00:06:09,350 --> 00:06:07,199

that we're we're finally here we're

175

00:06:11,670 --> 00:06:09,360

finally heading to the launch pad of

176
00:06:13,430 --> 00:06:11,680
course six months ago you know uh you

177
00:06:15,430 --> 00:06:13,440
know american don pettit was my backup

178
00:06:17,350 --> 00:06:15,440
and he went out all the way to the pad

179
00:06:19,430 --> 00:06:17,360
with me

180
00:06:21,350 --> 00:06:19,440
and uh you know realistically once you

181
00:06:23,749 --> 00:06:21,360
get suited up you know who's going that

182
00:06:25,350 --> 00:06:23,759
day but as you step up to the rocket

183
00:06:26,550 --> 00:06:25,360
then of course a fueled rocket is

184
00:06:28,469 --> 00:06:26,560
different than an inert one that's

185
00:06:30,950 --> 00:06:28,479
laying on the ground it's hissing

186
00:06:32,150 --> 00:06:30,960
breathing there's this uh you know

187
00:06:33,670 --> 00:06:32,160
kind of a

188
00:06:35,670 --> 00:06:33,680

fog

189

00:06:37,270 --> 00:06:35,680

associated with the cold cryogenic fuel

190

00:06:38,390 --> 00:06:37,280

tanks that's uh that's rolling off of

191

00:06:40,870 --> 00:06:38,400

the vehicle

192

00:06:42,790 --> 00:06:40,880

uh and it's uh it's really neat as you

193

00:06:45,749 --> 00:06:42,800

you stand on the steps here right at the

194

00:06:48,550 --> 00:06:45,759

foot of the rocket you go up about 20 or

195

00:06:50,070 --> 00:06:48,560

so steps on this ladder to get to the

196

00:06:53,430 --> 00:06:50,080

elevator that takes you to the top and

197

00:06:54,950 --> 00:06:53,440

it's one last pause waving back at the

198

00:06:56,550 --> 00:06:54,960

manager's family don't go out to the

199

00:06:58,309 --> 00:06:56,560

rocket with you

200

00:07:00,469 --> 00:06:58,319

but you're just kind of waving goodbye

201
00:07:02,629 --> 00:07:00,479
and then you get on a very tiny

202
00:07:05,189 --> 00:07:02,639
little elevator that takes you up to the

203
00:07:07,589 --> 00:07:05,199
top you know the uh for me it was it was

204
00:07:09,589 --> 00:07:07,599
striking because the soyuz rocket is uh

205
00:07:10,870 --> 00:07:09,599
is significantly smaller than the space

206
00:07:12,950 --> 00:07:10,880
shuttle

207
00:07:15,110 --> 00:07:12,960
with which i had the most experience

208
00:07:18,230 --> 00:07:15,120
and i remember the first time i saw the

209
00:07:19,990 --> 00:07:18,240
full up soyuz rocket and spacecraft wow

210
00:07:21,110 --> 00:07:20,000
that really seems different and of

211
00:07:23,189 --> 00:07:21,120
course it is

212
00:07:24,790 --> 00:07:23,199
but it it's really good at hauling you

213
00:07:25,990 --> 00:07:24,800

know people and a few hundred pounds of

214

00:07:27,510 --> 00:07:26,000

equipment

215

00:07:29,350 --> 00:07:27,520

it's very efficient for that but you're

216

00:07:31,430 --> 00:07:29,360

in there tight it's your hip to hip

217

00:07:34,230 --> 00:07:31,440

shoulder to shoulder in the

218

00:07:36,230 --> 00:07:34,240

in the capsule the descent module

219

00:07:38,390 --> 00:07:36,240

as the rocket starts to roar to life it

220

00:07:40,070 --> 00:07:38,400

seems to take a long time as the engines

221

00:07:42,870 --> 00:07:40,080

come up to full speed

222

00:07:45,430 --> 00:07:42,880

and uh and everything kicks in and then

223

00:07:47,029 --> 00:07:45,440

it uh the whole way of being on the pad

224

00:07:47,990 --> 00:07:47,039

is different than uh than what we're

225

00:07:51,110 --> 00:07:48,000

used to

226

00:07:53,589 --> 00:07:51,120

but it's a gentle lift off and it

227

00:07:55,029 --> 00:07:53,599

doesn't have i mean it's fairly smooth

228

00:07:56,950 --> 00:07:55,039

it doesn't have the kind of popping and

229

00:07:59,430 --> 00:07:56,960

crackling that we're used to from solid

230

00:08:01,670 --> 00:07:59,440

rocket boosters

231

00:08:02,950 --> 00:08:01,680

and it you know it accelerates smoothly

232

00:08:05,189 --> 00:08:02,960

off the pad

233

00:08:06,869 --> 00:08:05,199

it's a lot quieter inside than you would

234

00:08:07,589 --> 00:08:06,879

think you know you think looking at all

235

00:08:09,670 --> 00:08:07,599

this

236

00:08:11,510 --> 00:08:09,680

flames and rockets that it ought to be

237

00:08:13,430 --> 00:08:11,520

really noisy and stuff but you just

238

00:08:15,990 --> 00:08:13,440

don't notice that there's a dull roar

239

00:08:18,390 --> 00:08:16,000

back there but it's it's not as bad

240

00:08:20,790 --> 00:08:18,400

and as the rocket starts to climb of

241

00:08:23,189 --> 00:08:20,800

course you're burning fuel and so the

242

00:08:24,790 --> 00:08:23,199

acceleration increases

243

00:08:25,670 --> 00:08:24,800

and it you get pushed back into the

244

00:08:27,029 --> 00:08:25,680

seats

245

00:08:29,830 --> 00:08:27,039

with more and more

246

00:08:31,430 --> 00:08:29,840

force uh at about two minutes these

247

00:08:34,070 --> 00:08:31,440

there's some boosters that are strapped

248

00:08:36,790 --> 00:08:34,080

on and they burn out and fall away

249

00:08:39,190 --> 00:08:36,800

and it's a it's a very subtle change you

250

00:08:41,029 --> 00:08:39,200

feel a little drop off in the in the in

251

00:08:43,110 --> 00:08:41,039

the acceleration forces

252

00:08:45,829 --> 00:08:43,120

uh the the big change comes in about

253

00:08:48,150 --> 00:08:45,839

five minutes when the first or they call

254

00:08:50,230 --> 00:08:48,160

it stage two or second stage but it's

255

00:08:52,590 --> 00:08:50,240

really the first main rocket body when

256

00:08:54,389 --> 00:08:52,600

it burns out and separates for

257

00:08:56,070 --> 00:08:54,399

momentarily there's

258

00:08:58,150 --> 00:08:56,080

you're in weightless

259

00:08:59,670 --> 00:08:58,160

all of a sudden this this force it's a

260

00:09:02,389 --> 00:08:59,680

and i don't remember the exact number

261

00:09:05,829 --> 00:09:02,399

it's about three g's it's pushing on you

262

00:09:07,829 --> 00:09:05,839

and then very abruptly that force stops

263

00:09:09,910 --> 00:09:07,839

and you're kind of lurched in the in the

264

00:09:13,030 --> 00:09:09,920

straps and then

265

00:09:15,750 --> 00:09:13,040

stage three the next rocket kicks in and

266

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

boom pushes you back into the seat

267

00:09:20,150 --> 00:09:17,839

and as you continue on the way

268

00:09:22,070 --> 00:09:20,160

so the whole process just takes

269

00:09:23,110 --> 00:09:22,080

it's about nine minutes from sitting

270

00:09:24,790 --> 00:09:23,120

still

271

00:09:28,150 --> 00:09:24,800

you know on the step kind of of

272

00:09:30,790 --> 00:09:28,160

kazakhstan to being in orbit and it's a

273

00:09:32,310 --> 00:09:30,800

it's all very fast uh you know it takes

274

00:09:33,990 --> 00:09:32,320

a little bit longer than the shuttle is

275

00:09:36,310 --> 00:09:34,000

about eight and a half minutes

276

00:09:38,310 --> 00:09:36,320

uh and so this is about nine minutes and

277

00:09:40,790 --> 00:09:38,320

uh but once i get to orbit it's still a

278

00:09:42,870 --> 00:09:40,800

very busy time because you're you're

279

00:09:44,310 --> 00:09:42,880

busy i mean they're they're still going

280

00:09:47,030 --> 00:09:44,320

through some of the vehicle checks and

281

00:09:49,030 --> 00:09:47,040

some of the the orbit maneuvers uh that

282

00:09:50,790 --> 00:09:49,040

are associated with uh with just

283

00:09:53,509 --> 00:09:50,800

starting the whole

284

00:09:55,430 --> 00:09:53,519

chase down you know of the space station

285

00:09:57,670 --> 00:09:55,440

well talk about that a little bit um

286

00:09:59,509 --> 00:09:57,680

what what why is that important i mean

287

00:10:01,509 --> 00:09:59,519

how and why does it take you two days to

288

00:10:03,350 --> 00:10:01,519

get caught up to the international space

289

00:10:06,389 --> 00:10:03,360

right well it's it's it's just part of

290

00:10:08,230 --> 00:10:06,399

the design really on on how we we just

291

00:10:10,070 --> 00:10:08,240

chase it down

292

00:10:12,070 --> 00:10:10,080

we intentionally launch into an orbit

293

00:10:13,990 --> 00:10:12,080

that's just a little below the space

294

00:10:15,670 --> 00:10:14,000

station which means we go around the

295

00:10:18,630 --> 00:10:15,680

earth a little faster so we're literally

296

00:10:21,670 --> 00:10:18,640

chasing it down this morning as the as

297

00:10:24,870 --> 00:10:21,680

the soyuz was launching from kazakhstan

298

00:10:26,550 --> 00:10:24,880

the space station was over south america

299

00:10:27,990 --> 00:10:26,560

and and of course that looks wrong

300

00:10:29,350 --> 00:10:28,000

because you think that the space station

301
00:10:30,870 --> 00:10:29,360
should be coming overhead and we should

302
00:10:34,150 --> 00:10:30,880
be going straight to it but that's just

303
00:10:36,069 --> 00:10:34,160
not the way it works and it it by having

304
00:10:38,470 --> 00:10:36,079
a difference

305
00:10:39,829 --> 00:10:38,480
it just allows us to it's kind of

306
00:10:43,030 --> 00:10:39,839
methodically

307
00:10:44,470 --> 00:10:43,040
uh maneuver and and join up to and so we

308
00:10:46,230 --> 00:10:44,480
launched into an orbit that's just a

309
00:10:47,829 --> 00:10:46,240
little under the space station so we're

310
00:10:50,710 --> 00:10:47,839
going a little faster and so we'll be

311
00:10:53,990 --> 00:10:50,720
chasing it down and docking takes place

312
00:10:55,829 --> 00:10:54,000
just about 50 hours after launch so

313
00:10:56,949 --> 00:10:55,839

we'll be docking you know central time

314

00:11:02,310 --> 00:10:56,959

it'll be a

315

00:11:04,230 --> 00:11:02,320

for the actual docking

316

00:11:07,190 --> 00:11:04,240

well well that sounds very exciting and

317

00:11:09,110 --> 00:11:07,200

so um also just something else you know

318

00:11:10,470 --> 00:11:09,120

so you you launch on the soyuz but also

319

00:11:11,990 --> 00:11:10,480

while you were there aboard the

320

00:11:13,990 --> 00:11:12,000

international space station serving as

321

00:11:15,910 --> 00:11:14,000

the commander you actually watched a

322

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

launch as well so tell me what is that

323

00:11:19,670 --> 00:11:17,920

experience to knowing that hey i'm you

324

00:11:22,069 --> 00:11:19,680

know the rest of my crew is coming and

325

00:11:23,590 --> 00:11:22,079

what is that like well we had we had

326

00:11:25,670 --> 00:11:23,600

some delay in that there was some you

327

00:11:27,990 --> 00:11:25,680

know a little bit of space drama

328

00:11:30,550 --> 00:11:28,000

going on for us when the russian

329

00:11:32,550 --> 00:11:30,560

progress cargo ship uh did not reach

330

00:11:34,949 --> 00:11:32,560

orbit in august it uh they had a

331

00:11:37,030 --> 00:11:34,959

malfunction and it it went down

332

00:11:38,949 --> 00:11:37,040

and that rocket is basically the same

333

00:11:40,710 --> 00:11:38,959

rocket that carries humans upon the

334

00:11:43,509 --> 00:11:40,720

soyuz spacecraft

335

00:11:44,389 --> 00:11:43,519

and so that that that changed things uh

336

00:11:47,509 --> 00:11:44,399

the uh

337

00:11:49,190 --> 00:11:47,519

ron guerin uh sasha and andre uh they

338

00:11:50,630 --> 00:11:49,200

extended their stay by just a little bit

339

00:11:52,150 --> 00:11:50,640

and when it was time for them to come

340

00:11:53,750 --> 00:11:52,160

home then we just had a crew of three

341

00:11:54,829 --> 00:11:53,760

for a couple of months

342

00:11:56,470 --> 00:11:54,839

and we're

343

00:11:59,110 --> 00:11:56,480

uh

344

00:12:01,190 --> 00:11:59,120

dan anton and anatoly were

345

00:12:02,069 --> 00:12:01,200

originally scheduled to be up there

346

00:12:03,750 --> 00:12:02,079

um

347

00:12:05,910 --> 00:12:03,760

you know two months ago just a very

348

00:12:07,990 --> 00:12:05,920

short gap and instead we had a longer

349

00:12:09,829 --> 00:12:08,000

time with just three people so it was

350

00:12:11,670 --> 00:12:09,839

really busy the space station takes a

351

00:12:13,590 --> 00:12:11,680

certain amount of care and feeding and

352

00:12:15,269 --> 00:12:13,600

we were working hard to keep up with the

353

00:12:17,430 --> 00:12:15,279

science program and keep everything on

354

00:12:19,750 --> 00:12:17,440

track which is the three and not the six

355

00:12:21,990 --> 00:12:19,760

that you were shorthanded absolutely so

356

00:12:23,910 --> 00:12:22,000

it was it was a very busy time but you

357

00:12:25,190 --> 00:12:23,920

know we were by then we were you know

358

00:12:27,430 --> 00:12:25,200

fully up to speed because we'd been in

359

00:12:29,030 --> 00:12:27,440

space for a few months so we were ready

360

00:12:31,670 --> 00:12:29,040

for that and it was it was a challenge

361

00:12:33,910 --> 00:12:31,680

getting everything ready uh for uh dan

362

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

burbank and his crewmates to arrive you

363

00:12:36,470 --> 00:12:35,440

know late as

364

00:12:39,110 --> 00:12:36,480

if you will

365

00:12:40,230 --> 00:12:39,120

and they arrived really six days before

366

00:12:42,949 --> 00:12:40,240

we left

367

00:12:44,550 --> 00:12:42,959

and so we had a very short overlap time

368

00:12:45,990 --> 00:12:44,560

or hand over time

369

00:12:47,990 --> 00:12:46,000

it was really busy

370

00:12:49,910 --> 00:12:48,000

we

371

00:12:51,910 --> 00:12:49,920

dan burbank and i joke about not

372

00:12:53,829 --> 00:12:51,920

sleeping during that time because there

373

00:12:54,949 --> 00:12:53,839

was just so much to hand over so much to

374

00:12:56,949 --> 00:12:54,959

talk about

375

00:12:58,069 --> 00:12:56,959

but it was exciting when as we were

376

00:12:58,870 --> 00:12:58,079

preparing

377

00:13:00,790 --> 00:12:58,880

and

378

00:13:04,470 --> 00:13:00,800

we were actually sending down videos to

379

00:13:06,949 --> 00:13:04,480

help with the training or the handover

380

00:13:08,710 --> 00:13:06,959

of the different things that we do that

381

00:13:10,870 --> 00:13:08,720

on on the space station part of it's the

382

00:13:13,350 --> 00:13:10,880

normal you know just cleaning and

383

00:13:14,949 --> 00:13:13,360

cleaning filters and and water samples

384

00:13:17,030 --> 00:13:14,959

and also payload operations and

385

00:13:19,430 --> 00:13:17,040

different stuff so it was really neat to

386

00:13:21,590 --> 00:13:19,440

uh when it was finally launched day as

387

00:13:23,829 --> 00:13:21,600

we gathered uh in the

388

00:13:25,910 --> 00:13:23,839

the aft end of the of the the us

389

00:13:27,509 --> 00:13:25,920

laboratory at a computer screen where

390

00:13:29,509 --> 00:13:27,519

they were uplinking uh streaming the

391

00:13:31,430 --> 00:13:29,519

video up to watch them and so we're

392

00:13:33,269 --> 00:13:31,440

cheering and of course uh you know that

393

00:13:35,030 --> 00:13:33,279

was just wow that was just five weeks

394

00:13:36,629 --> 00:13:35,040

ago it's hard to believe

395

00:13:39,269 --> 00:13:36,639

and they were they launched in a

396

00:13:40,710 --> 00:13:39,279

blizzard it was unbelievable

397

00:13:42,550 --> 00:13:40,720

a little different than your your

398

00:13:43,829 --> 00:13:42,560

condition since you launched on june 7th

399

00:13:45,829 --> 00:13:43,839

in the summer correct we launched in the

400

00:13:47,509 --> 00:13:45,839

summertime it was it was it was nice it

401

00:13:50,069 --> 00:13:47,519

was a little warm but it was nice and i

402

00:13:51,430 --> 00:13:50,079

i couldn't believe uh you know what the

403

00:13:52,470 --> 00:13:51,440

conditions were like when they launched

404

00:13:53,990 --> 00:13:52,480

but it was

405

00:13:56,470 --> 00:13:54,000

you know that today's launch of course

406

00:13:59,189 --> 00:13:56,480

was beautiful it was cold you know but

407

00:14:01,189 --> 00:13:59,199

clear and looked really looked great

408

00:14:02,870 --> 00:14:01,199

great well thanks so much for sharing

409

00:14:05,350 --> 00:14:02,880

with us again um you've been sharing

410

00:14:07,030 --> 00:14:05,360

with us since you before you left and

411

00:14:08,870 --> 00:14:07,040

you're still sharing with us but uh

412

00:14:11,750 --> 00:14:08,880

you've been blogging and so for those of

413

00:14:13,750 --> 00:14:11,760

you who want to hear more about um

414

00:14:15,189 --> 00:14:13,760

mike fossum's experience there he talks

415

00:14:16,470 --> 00:14:15,199

about the launch he also talks about

416

00:14:18,949 --> 00:14:16,480

watching the launch waiting for the

417

00:14:21,030 --> 00:14:18,959

launch the delay of the launch

418

00:14:23,269 --> 00:14:21,040

um all of those things you can see at um

419

00:14:24,949 --> 00:14:23,279

his on his blog called titled uh living

420

00:14:27,350 --> 00:14:24,959

the dream where he chronicled his space

421

00:14:30,550 --> 00:14:27,360

flight experience and you can get to

422

00:14:33,829 --> 00:14:30,560

that at www.nasa.gov

423

00:14:36,150 --> 00:14:33,839

or i'm sorry blogs.nasa.gov okay thanks

424

00:14:38,310 --> 00:14:36,160

again for coming for uh to talk with us

425

00:14:39,990 --> 00:14:38,320

and i you know again it is a very

426
00:14:41,670 --> 00:14:40,000
exciting time and it's nice to be able

427
00:14:43,430 --> 00:14:41,680
to see that excitement and

428
00:14:45,670 --> 00:14:43,440
how are you feeling now being back i

429
00:14:47,829 --> 00:14:45,680
mean just only a month

430
00:14:49,990 --> 00:14:47,839
i feel great you know it's uh we go

431
00:14:51,189 --> 00:14:50,000
right now going through medical testing

432
00:14:52,710 --> 00:14:51,199
um to

433
00:14:54,710 --> 00:14:52,720
a lot of what we

434
00:14:56,790 --> 00:14:54,720
a lot of the science that we do involves

435
00:14:59,509 --> 00:14:56,800
us actually serving as the guinea pig

436
00:15:01,269 --> 00:14:59,519
for different muscle and bone studies

437
00:15:03,189 --> 00:15:01,279
and so going through that and

438
00:15:04,629 --> 00:15:03,199

rehabilitation very interesting so i

439

00:15:06,870 --> 00:15:04,639

guess we can still follow you because

440

00:15:08,310 --> 00:15:06,880

you you are you have been tweeting so

441

00:15:10,870 --> 00:15:08,320

perhaps you're you'll share some of

442

00:15:13,750 --> 00:15:10,880

those experiences as well of how he gets

443

00:15:14,949 --> 00:15:13,760

adjusted back to earth you bet and that

444

00:15:17,990 --> 00:15:14,959

is on

445

00:15:22,389 --> 00:15:20,389

astro underscore aggie

446

00:15:24,470 --> 00:15:22,399

thanks again for coming mike you bet

447

00:15:26,710 --> 00:15:24,480

thanks amiko thank you good to be here

448

00:15:28,629 --> 00:15:26,720

and happy holidays to you union you too

449

00:15:31,350 --> 00:15:28,639

and uh thanks for everybody for watching

450

00:15:33,269 --> 00:15:31,360

nasa tv it's a great time in the space

451

00:15:35,430 --> 00:15:33,279

program here where we've got the next

452

00:15:37,350 --> 00:15:35,440

the next crew heading up to the space

453

00:15:39,430 --> 00:15:37,360

station to get back up to a full crew of

454

00:15:41,350 --> 00:15:39,440

six and we're cheering them and

455

00:15:43,590 --> 00:15:41,360

supporting them as best we can from here