



1
00:00:05,910 --> 00:00:04,150
expedition 25 commander doug wheelock

2
00:00:08,629 --> 00:00:05,920
gave a tour of the russian segment of

3
00:00:11,190 --> 00:00:08,639
the orbiting complex including the soyuz

4
00:00:13,589 --> 00:00:11,200
spacecraft docked there wheelock showed

5
00:00:14,910 --> 00:00:13,599
off the station's ham radio using the

6
00:00:17,990 --> 00:00:14,920
callsign

7
00:00:21,269 --> 00:00:18,000
na1ss to talk with people on the ground

8
00:00:23,509 --> 00:00:21,279
as the station flies overhead at 17

9
00:00:25,670 --> 00:00:23,519
500 miles per hour

10
00:00:27,990 --> 00:00:25,680
wheelock and flight engineers shannon

11
00:00:30,310 --> 00:00:28,000
walker and fyodor yuchikan all will

12
00:00:33,430 --> 00:00:30,320
return home to earth this thursday

13
00:00:34,870 --> 00:00:33,440

november 25th welcome aboard

14

00:00:36,310 --> 00:00:34,880

it's a pleasure to have you aboard today

15

00:00:39,110 --> 00:00:36,320

and i wanted to show you a little bit

16

00:00:41,030 --> 00:00:39,120

about our ham radio operations on board

17

00:00:44,150 --> 00:00:41,040

last several months and weeks i've

18

00:00:46,229 --> 00:00:44,160

really enjoyed using the ham radio and

19

00:00:47,430 --> 00:00:46,239

talking to hem radio operators all over

20

00:00:49,830 --> 00:00:47,440

the world

21

00:00:52,069 --> 00:00:49,840

the most of our contacts are

22

00:00:54,389 --> 00:00:52,079

normally i find over north america

23

00:00:55,750 --> 00:00:54,399

mexico then into central america and

24

00:00:58,150 --> 00:00:55,760

even in the caribbean

25

00:01:01,029 --> 00:00:58,160

i've had a few contacts through south

26

00:01:03,110 --> 00:01:01,039

america and also in africa and again

27

00:01:05,109 --> 00:01:03,120

over europe we have several contacts

28

00:01:07,270 --> 00:01:05,119

that we've made over europe and then

29

00:01:08,469 --> 00:01:07,280

also in australia and japan

30

00:01:10,230 --> 00:01:08,479

and tonight

31

00:01:12,070 --> 00:01:10,240

you're in for a real treat

32

00:01:13,830 --> 00:01:12,080

we're getting ready to have a pass over

33

00:01:16,710 --> 00:01:13,840

north america this this past we'll

34

00:01:19,590 --> 00:01:16,720

actually be entering uh u.s airspace

35

00:01:21,830 --> 00:01:19,600

right around the mid coast of uh of

36

00:01:23,910 --> 00:01:21,840

oregon the state of oregon uh just a

37

00:01:25,749 --> 00:01:23,920

little south of portland and we'll be

38

00:01:28,630 --> 00:01:25,759

flying over the central part of the u.s

39

00:01:30,550 --> 00:01:28,640

and sort of exiting u.s

40

00:01:33,190 --> 00:01:30,560

airspace if you will

41

00:01:35,670 --> 00:01:33,200

right around brownsville texas and going

42

00:01:37,590 --> 00:01:35,680

into mexico over the yucatan

43

00:01:40,469 --> 00:01:37,600

peninsula so we'll get some contacts

44

00:01:41,749 --> 00:01:40,479

i've had several contacts in the in cuba

45

00:01:43,350 --> 00:01:41,759

and that's been a lot of fun got a lot

46

00:01:45,190 --> 00:01:43,360

of great friends there

47

00:01:47,270 --> 00:01:45,200

and uh and we'll go down over south

48

00:01:50,230 --> 00:01:47,280

america and you'll see how the um how

49

00:01:53,030 --> 00:01:50,240

the contacts taper out as we enter

50

00:01:53,749 --> 00:01:53,040

into the south american airspace

51

00:01:54,950 --> 00:01:53,759

and

52

00:01:57,749 --> 00:01:54,960

i just wanted to share this with you

53

00:01:59,990 --> 00:01:57,759

because it's been a lot of fun we

54

00:02:01,749 --> 00:02:00,000

get a chance to look out the window

55

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

quite often and we try to do that each

56

00:02:04,870 --> 00:02:03,200

day and

57

00:02:07,749 --> 00:02:04,880

but using the ham radio it's a little

58

00:02:10,630 --> 00:02:07,759

more sparse the times i get to do that

59

00:02:12,710 --> 00:02:10,640

because you have to be kind of time the

60

00:02:14,390 --> 00:02:12,720

your your pass over the area where you

61

00:02:15,510 --> 00:02:14,400

want to make the contacts

62

00:02:19,270 --> 00:02:15,520

and

63

00:02:21,670 --> 00:02:19,280

to do when we got a lot of work going on

64
00:02:23,589 --> 00:02:21,680
down here in the u.s segment and the ham

65
00:02:25,670 --> 00:02:23,599
radio is located in the russian service

66
00:02:26,710 --> 00:02:25,680
module which is the f part of the space

67
00:02:29,350 --> 00:02:26,720
station

68
00:02:32,070 --> 00:02:29,360
and um so lining that up with with some

69
00:02:33,910 --> 00:02:32,080
free time and some time when people

70
00:02:35,750 --> 00:02:33,920
were calling would be awake as well

71
00:02:37,750 --> 00:02:35,760
since we operate off a greenwich

72
00:02:39,509 --> 00:02:37,760
meantime i have to

73
00:02:42,710 --> 00:02:39,519
remember that we're

74
00:02:43,750 --> 00:02:42,720
six seven eight ten hours nine ten hours

75
00:02:45,589 --> 00:02:43,760
ahead of

76

00:02:48,630 --> 00:02:45,599

of times in the u.s and so to make

77

00:02:51,190 --> 00:02:48,640

contacts there usually it falls out it's

78

00:02:52,949 --> 00:02:51,200

during my evening time either during

79

00:02:53,750 --> 00:02:52,959

pre-sleep or even into sleep time don't

80

00:02:55,670 --> 00:02:53,760

tell

81

00:02:57,830 --> 00:02:55,680

our flight directors but

82

00:03:01,350 --> 00:02:57,840

it's been a lot of fun and it's a it's a

83

00:03:03,190 --> 00:03:01,360

sunday evening and it's getting

84

00:03:04,790 --> 00:03:03,200

on into the afternoon in the states and

85

00:03:07,750 --> 00:03:04,800

so we should have a lot of contacts

86

00:03:10,229 --> 00:03:07,760

today on a weekend and so i want you to

87

00:03:12,149 --> 00:03:10,239

uh to enjoy this now there are some

88

00:03:14,869 --> 00:03:12,159

challenges to

89

00:03:16,550 --> 00:03:14,879

using the ham radio on board and

90

00:03:18,710 --> 00:03:16,560

i think it gets frustrating for the

91

00:03:20,869 --> 00:03:18,720

ground for the folks on the ground as

92

00:03:23,030 --> 00:03:20,879

well because they're making a very what

93

00:03:25,910 --> 00:03:23,040

they feel is a very clear transmission

94

00:03:28,070 --> 00:03:25,920

uh to the space station and uh then

95

00:03:30,309 --> 00:03:28,080

sometimes i don't hear the entire call

96

00:03:33,030 --> 00:03:30,319

sign don't hear the entire transmission

97

00:03:35,110 --> 00:03:33,040

and so it's difficult for me to um

98

00:03:37,110 --> 00:03:35,120

to give them a call back and i know

99

00:03:39,190 --> 00:03:37,120

that's hard to understand but i'll i

100

00:03:41,430 --> 00:03:39,200

want you to experience this to see

101
00:03:43,670 --> 00:03:41,440
because when we enter u.s airspace i'll

102
00:03:45,830 --> 00:03:43,680
just leave them i'll just leave the mic

103
00:03:48,470 --> 00:03:45,840
off on the ham radio and i want you to

104
00:03:50,630 --> 00:03:48,480
listen they'll start calling the station

105
00:03:51,509 --> 00:03:50,640
before we even get to the coastline

106
00:03:53,509 --> 00:03:51,519
and

107
00:03:55,589 --> 00:03:53,519
usually on the west coast those early

108
00:03:57,350 --> 00:03:55,599
callers that we get i'll get a clear

109
00:03:59,589 --> 00:03:57,360
signal and we'll get the entire call

110
00:04:02,309 --> 00:03:59,599
sign and then you'll hear the barrage of

111
00:04:04,949 --> 00:04:02,319
uh of call signs it's sort of it's sort

112
00:04:07,190 --> 00:04:04,959
of like a an alphabet soup you hear you

113
00:04:08,949 --> 00:04:07,200

hear letters and numbers coming up and

114

00:04:10,390 --> 00:04:08,959

different voices from different states

115

00:04:12,309 --> 00:04:10,400

and different regions

116

00:04:14,470 --> 00:04:12,319

and uh they're all coming up at the same

117

00:04:16,310 --> 00:04:14,480

time and so it it uh becomes a

118

00:04:18,710 --> 00:04:16,320

conglomeration of

119

00:04:20,550 --> 00:04:18,720

of alphanumeric codes

120

00:04:22,629 --> 00:04:20,560

that you have to try to decipher and you

121

00:04:24,629 --> 00:04:22,639

get better with it with time

122

00:04:26,469 --> 00:04:24,639

uh but when i first started out i was i

123

00:04:28,310 --> 00:04:26,479

was a little overwhelmed at the barrage

124

00:04:30,469 --> 00:04:28,320

of

125

00:04:32,950 --> 00:04:30,479

call signs coming in and how to

126

00:04:35,430 --> 00:04:32,960

how to more most efficiently pick out

127

00:04:37,590 --> 00:04:35,440

the call signs and then and then make

128

00:04:39,030 --> 00:04:37,600

those contacts and of course a great

129

00:04:41,189 --> 00:04:39,040

contact

130

00:04:44,310 --> 00:04:41,199

is that i hear their call sign and i

131

00:04:45,830 --> 00:04:44,320

call them back with our call sign

132

00:04:47,510 --> 00:04:45,840

that i have them loud and clear aboard

133

00:04:49,749 --> 00:04:47,520

the space station our call sign here on

134

00:04:52,230 --> 00:04:49,759

the on the space station is november

135

00:04:54,310 --> 00:04:52,240

alpha 1 sierra sierra

136

00:04:55,670 --> 00:04:54,320

so you'll hear you'll hear that coming

137

00:04:58,070 --> 00:04:55,680

over the

138

00:05:01,990 --> 00:04:58,080

the airways so november alpha one sierra

139

00:05:04,150 --> 00:05:02,000

sierra sierra or na1 ss you'll hear that

140

00:05:06,150 --> 00:05:04,160

sometimes people will say uh call just

141

00:05:08,390 --> 00:05:06,160

for the international space station uh

142

00:05:10,550 --> 00:05:08,400

you may hear that as well so

143

00:05:14,150 --> 00:05:10,560

and then what i've been trying to do is

144

00:05:16,629 --> 00:05:14,160

uh if i get a partial call sign i'll uh

145

00:05:18,390 --> 00:05:16,639

uh it's normally a string of a string of

146

00:05:20,870 --> 00:05:18,400

numbers and letters usually one number

147

00:05:22,550 --> 00:05:20,880

in there and if i only hear the last

148

00:05:24,550 --> 00:05:22,560

couple of numbers or a couple of numbers

149

00:05:26,150 --> 00:05:24,560

in the call sign i'll repeat those

150

00:05:27,510 --> 00:05:26,160

couple of numbers and say that i missed

151
00:05:29,590 --> 00:05:27,520
the first part of the call sign or the

152
00:05:31,990 --> 00:05:29,600
second last part of the call sign and

153
00:05:34,870 --> 00:05:32,000
have them call back so normally that

154
00:05:36,629 --> 00:05:34,880
will whittle it down and sometimes

155
00:05:38,550 --> 00:05:36,639
folks will will kind of back off a

156
00:05:41,189 --> 00:05:38,560
little bit and allow that

157
00:05:42,550 --> 00:05:41,199
allow that ground station to to uh to

158
00:05:44,790 --> 00:05:42,560
retransmit

159
00:05:46,310 --> 00:05:44,800
that signal so a lot of times on the if

160
00:05:47,430 --> 00:05:46,320
i get a couple letters and i repeat

161
00:05:49,749 --> 00:05:47,440
those back

162
00:05:51,590 --> 00:05:49,759
that folks will use courtesy and allow

163
00:05:53,590 --> 00:05:51,600

that station to try to make contact

164

00:05:55,830 --> 00:05:53,600

again and usually on that second or

165

00:05:58,309 --> 00:05:55,840

third time i'll get that full call sign

166

00:05:59,830 --> 00:05:58,319

and be able to complete that contact and

167

00:06:01,510 --> 00:05:59,840

so uh this will be a lot of fun we're

168

00:06:03,350 --> 00:06:01,520

gonna head down the service module and

169

00:06:06,309 --> 00:06:03,360

um i think you'll really enjoy this so

170

00:06:08,790 --> 00:06:06,319

come on along

171

00:06:10,150 --> 00:06:08,800

we're coming into the uh to node one out

172

00:06:12,150 --> 00:06:10,160

of the air lock

173

00:06:14,790 --> 00:06:12,160

and uh we'll head down to the uh to the

174

00:06:16,550 --> 00:06:14,800

russian service module down to the uh

175

00:06:17,749 --> 00:06:16,560

to the uh aft end of the uh space

176
00:06:20,629 --> 00:06:17,759
station

177
00:06:23,029 --> 00:06:20,639
so we'll come come through here and uh

178
00:06:24,070 --> 00:06:23,039
and uh watch your head coming into pma1

179
00:06:26,469 --> 00:06:24,080
and uh

180
00:06:29,189 --> 00:06:26,479
please watch your speed

181
00:06:31,830 --> 00:06:29,199
the speed limit here is 17 500 miles per

182
00:06:37,189 --> 00:06:31,840
hour and uh it is checked by radar so

183
00:06:42,230 --> 00:06:40,390
coming up into pma1 and this we use this

184
00:06:44,469 --> 00:06:42,240
for a lot of storage

185
00:06:46,230 --> 00:06:44,479
we have a lot of our clothing and things

186
00:06:47,590 --> 00:06:46,240
hygiene products

187
00:06:49,510 --> 00:06:47,600
stored in here

188
00:06:51,430 --> 00:06:49,520

and uh coming into the uh

189

00:06:54,230 --> 00:06:51,440

to the russian segment here

190

00:06:57,189 --> 00:06:54,240

and um down at the deck level and going

191

00:06:59,270 --> 00:06:57,199

nader towards to be towards the earth

192

00:07:00,710 --> 00:06:59,280

in this location is the

193

00:07:03,110 --> 00:07:00,720

is the

194

00:07:04,070 --> 00:07:03,120

meme one of the mrm the mini research

195

00:07:05,749 --> 00:07:04,080

module

196

00:07:07,189 --> 00:07:05,759

you can see down there way down at the

197

00:07:08,550 --> 00:07:07,199

other end of the

198

00:07:11,909 --> 00:07:08,560

of the meme

199

00:07:13,830 --> 00:07:11,919

is our soyuz olympus

200

00:07:15,270 --> 00:07:13,840

which we will get into we can see all

201

00:07:17,589 --> 00:07:15,280

the way down into the

202

00:07:18,790 --> 00:07:17,599

there's our hatch actually um down into

203

00:07:20,070 --> 00:07:18,800

the soyuz

204

00:07:21,909 --> 00:07:20,080

and um

205

00:07:24,790 --> 00:07:21,919

actually that's fyodor down there uh

206

00:07:28,309 --> 00:07:24,800

working uh to get the capsule ready

207

00:07:32,230 --> 00:07:30,230

and that's where the soyuz that's where

208

00:07:34,309 --> 00:07:32,240

we docked the soyuz uh back

209

00:07:35,510 --> 00:07:34,319

uh several months ago so there's the

210

00:07:37,510 --> 00:07:35,520

meme one

211

00:07:39,029 --> 00:07:37,520

and coming

212

00:07:41,350 --> 00:07:39,039

from the uh

213

00:07:43,430 --> 00:07:41,360

uh the pressurized adapter here

214

00:07:45,270 --> 00:07:43,440

mating adapter will come into the fgb of

215

00:07:47,270 --> 00:07:45,280

the functional cargo block

216

00:07:48,550 --> 00:07:47,280

of the uh of the space station of the

217

00:07:52,150 --> 00:07:48,560

russian segment

218

00:07:54,070 --> 00:07:52,160

and um

219

00:07:56,710 --> 00:07:54,080

the functional cargo block is it's just

220

00:07:58,950 --> 00:07:56,720

that it's a it's a lot of a lot of cargo

221

00:08:01,830 --> 00:07:58,960

a lot of systems in here and see these

222

00:08:04,950 --> 00:08:01,840

are all food containers uh that we have

223

00:08:05,830 --> 00:08:04,960

and these are also um some supplies and

224

00:08:08,469 --> 00:08:05,840

um

225

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

and re-spare parts for uh

226

00:08:11,430 --> 00:08:10,560

for both of the uh the bathrooms on

227

00:08:13,909 --> 00:08:11,440

board

228

00:08:15,589 --> 00:08:13,919

and those are located in here as well

229

00:08:16,950 --> 00:08:15,599

behind each of these panels along the

230

00:08:18,390 --> 00:08:16,960

wall

231

00:08:20,869 --> 00:08:18,400

you can pull those panels off and

232

00:08:22,790 --> 00:08:20,879

there's there are systems back there as

233

00:08:24,710 --> 00:08:22,800

well systems and storage

234

00:08:26,550 --> 00:08:24,720

of different different items

235

00:08:28,309 --> 00:08:26,560

so we come through the uh through the

236

00:08:30,309 --> 00:08:28,319

fgb just kind of float through the

237

00:08:33,269 --> 00:08:30,319

tunnel here

238

00:08:34,790 --> 00:08:33,279

and we'll come up on the

239

00:08:36,949 --> 00:08:34,800

on the pressurized mating adapter

240

00:08:39,269 --> 00:08:36,959

between the fgb and the

241

00:08:41,430 --> 00:08:39,279

service module actually part of part of

242

00:08:43,750 --> 00:08:41,440

the service module and um

243

00:08:46,070 --> 00:08:43,760

and we'll look nader first and later

244

00:08:47,590 --> 00:08:46,080

takes us into the docking compartment

245

00:08:49,509 --> 00:08:47,600

and um

246

00:08:50,790 --> 00:08:49,519

in the docking compartment our is where

247

00:08:52,790 --> 00:08:50,800

the

248

00:08:54,230 --> 00:08:52,800

russian evas are launched from you can

249

00:08:56,790 --> 00:08:54,240

see the

250

00:08:59,110 --> 00:08:56,800

the orlon space suits that are hanging

251
00:09:01,670 --> 00:08:59,120
on the wall there's uh there's fyodor's

252
00:09:04,070 --> 00:09:01,680
uh spacesuit and then uh in an olig

253
00:09:05,670 --> 00:09:04,080
spacesuit that they wore on these last

254
00:09:08,230 --> 00:09:05,680
couple of ebas

255
00:09:09,350 --> 00:09:08,240
and um and then down down here through

256
00:09:11,509 --> 00:09:09,360
this hatch

257
00:09:13,110 --> 00:09:11,519
is one of our progress vehicles

258
00:09:15,829 --> 00:09:13,120
uh that was a resupply vehicle that

259
00:09:17,030 --> 00:09:15,839
docked at the latest that's progress 40

260
00:09:19,430 --> 00:09:17,040
40p

261
00:09:21,670 --> 00:09:19,440
there that brought us resupplies

262
00:09:22,710 --> 00:09:21,680
and uh that's dr nader

263
00:09:26,070 --> 00:09:22,720

at the

264

00:09:26,949 --> 00:09:26,080

nader end of the docking department so

265

00:09:28,550 --> 00:09:26,959

turning

266

00:09:30,310 --> 00:09:28,560

zenith now

267

00:09:32,150 --> 00:09:30,320

and we look at we're looking zenith we

268

00:09:33,350 --> 00:09:32,160

got the mrm2

269

00:09:34,070 --> 00:09:33,360

meme 2

270

00:09:38,550 --> 00:09:34,080

the

271

00:09:40,230 --> 00:09:38,560

points uh

272

00:09:42,870 --> 00:09:40,240

towards deep space is actually on the

273

00:09:44,150 --> 00:09:42,880

native zenith side of the space station

274

00:09:47,350 --> 00:09:44,160

and um

275

00:09:48,310 --> 00:09:47,360

and soyuz 24s the soyuz that uh

276

00:09:51,750 --> 00:09:48,320

that

277

00:09:54,630 --> 00:09:51,760

sasha and scott and all i came up in

278

00:09:56,710 --> 00:09:54,640

in october is parked at the um at the

279

00:09:58,949 --> 00:09:56,720

zenith end of the mean two so you can

280

00:10:00,550 --> 00:09:58,959

see all the way down into the soyuz and

281

00:10:02,630 --> 00:10:00,560

there's uh there's actually the

282

00:10:06,069 --> 00:10:02,640

commander seat inside

283

00:10:07,910 --> 00:10:06,079

of the soyuz 24s

284

00:10:08,949 --> 00:10:07,920

we'll continue down now into the service

285

00:10:11,269 --> 00:10:08,959

module

286

00:10:12,470 --> 00:10:11,279

where the ham radio is located this is

287

00:10:13,750 --> 00:10:12,480

also the

288

00:10:23,269 --> 00:10:13,760

the

289

00:10:25,829 --> 00:10:24,310

and uh

290

00:10:26,630 --> 00:10:25,839

coming into the service module this is

291

00:10:28,790 --> 00:10:26,640

the

292

00:10:31,190 --> 00:10:28,800

central post here where we uh

293

00:10:33,350 --> 00:10:31,200

we gather in the event of an emergency

294

00:10:34,150 --> 00:10:33,360

we also gather down here from time to

295

00:10:36,389 --> 00:10:34,160

time

296

00:10:38,790 --> 00:10:36,399

for meals we try to eat meals uh

297

00:10:40,949 --> 00:10:38,800

each uh each night as a crew

298

00:10:42,310 --> 00:10:40,959

and we're coming up on the um

299

00:10:44,470 --> 00:10:42,320

on the uh

300

00:10:47,110 --> 00:10:44,480

ham radio now and this is the

301
00:10:48,069 --> 00:10:47,120
actually the the map that we use for our

302
00:10:49,590 --> 00:10:48,079
pass

303
00:10:51,750 --> 00:10:49,600
and you can see uh

304
00:10:53,190 --> 00:10:51,760
this is uh

305
00:10:54,870 --> 00:10:53,200
this is our track this is actually a

306
00:10:57,030 --> 00:10:54,880
program called sigma and you can see the

307
00:10:58,710 --> 00:10:57,040
red dot there it's coming up on the

308
00:11:01,350 --> 00:10:58,720
oregon coast and so we'll be ready to

309
00:11:03,110 --> 00:11:01,360
pick up with our with our conversations

310
00:11:06,470 --> 00:11:03,120
with our ham radio friends here in just

311
00:11:10,310 --> 00:11:08,470
and here's the ham radio just on the uh

312
00:11:12,069 --> 00:11:10,320
on the starboard wall

313
00:11:14,150 --> 00:11:12,079

of the uh of the space station located

314

00:11:16,069 --> 00:11:14,160

here and of course the antenna is out

315

00:11:20,550 --> 00:11:16,079

outside we've got a pretty powerful

316

00:11:24,710 --> 00:11:22,949

okay we're here in the service module of

317

00:11:27,030 --> 00:11:24,720

the russian segment and this is the

318

00:11:28,069 --> 00:11:27,040

command post of the space station we're

319

00:11:30,069 --> 00:11:28,079

going to go ahead and turn on the ham

320

00:11:32,310 --> 00:11:30,079

radio and i'll have the microphone

321

00:11:34,230 --> 00:11:32,320

uh sort of near the speaker so you can

322

00:11:37,829 --> 00:11:34,240

hear the calls coming in again we're

323

00:11:39,990 --> 00:11:37,839

november alpha 1 cr cr or na1 ss and

324

00:11:42,310 --> 00:11:40,000

we're coming up on the oregon coast now

325

00:11:43,509 --> 00:11:42,320

and we'll go ahead and turn the radio on

326

00:11:45,030 --> 00:11:43,519

and i'll let you listen to our

327

00:11:51,910 --> 00:11:45,040

transmissions every as we go over the

328

00:11:56,230 --> 00:11:54,230

you can hear the calls come

329

00:11:58,230 --> 00:11:56,240

this is november alpha one sierra sierra

330

00:12:02,949 --> 00:11:58,240

the international space station over

331

00:12:07,670 --> 00:12:05,190

thank you

332

00:12:13,670 --> 00:12:07,680

and we've talked before and i was hoping

333

00:12:19,590 --> 00:12:15,350

and craig say your call sign again

334

00:12:23,190 --> 00:12:19,600

please yes november 6 radio sierra x-ray

335

00:12:25,590 --> 00:12:23,200

november 6 radio sierra x-ray over over

336

00:12:26,790 --> 00:12:25,600

okay november 6 radio sierra x-ray we've

337

00:12:28,069 --> 00:12:26,800

got you loud and clear aboard the

338

00:12:29,350 --> 00:12:28,079

international space station welcome

339

00:12:35,829 --> 00:12:29,360

aboard it's great to talk to you again

340

00:12:38,710 --> 00:12:36,949

so you can hear a little bit of the

341

00:12:39,509 --> 00:12:38,720

static there's a lot of the calls coming

342

00:12:43,670 --> 00:12:39,519

in

343

00:12:48,150 --> 00:12:45,990

see i got an exp so

344

00:12:49,509 --> 00:12:48,160

i heard the echo x-ray bravo missed the

345

00:12:51,269 --> 00:12:49,519

first part of the call sign but this is

346

00:12:55,670 --> 00:12:51,279

november alpha one crc or the

347

00:12:55,680 --> 00:12:59,110

x3 victor

348

00:13:03,350 --> 00:13:02,150

okay kilo delta zero echo x-ray victor

349

00:13:04,949 --> 00:13:03,360

we've got you loud and clear welcome

350

00:13:10,550 --> 00:13:04,959

aboard the international space station

351

00:13:16,230 --> 00:13:13,030

bravo

352

00:13:17,910 --> 00:13:16,240

first part of the call sign but this is

353

00:13:20,629 --> 00:13:17,920

november alpha 1 sierra sierra the

354

00:13:24,790 --> 00:13:20,639

international space station over

355

00:13:28,310 --> 00:13:27,030

november 0 kilo golf mike we've got you

356

00:13:33,030 --> 00:13:28,320

loud and clear aboard the international

357

00:13:36,550 --> 00:13:34,870

nice to make a aboard with you again and

358

00:13:38,389 --> 00:13:36,560

uh hey just a question i saw your

359

00:13:40,550 --> 00:13:38,399

twitter profile picture is that uh

360

00:13:42,069 --> 00:13:40,560

everest camp go ahead

361

00:13:43,990 --> 00:13:42,079

yeah it sure is it's uh it's mount

362

00:13:45,590 --> 00:13:44,000

everest and i went i was there that was

363

00:13:46,949 --> 00:13:45,600

taken at base camp uh have you been

364

00:13:48,470 --> 00:13:46,959

there

365

00:13:51,269 --> 00:13:48,480

oh yeah yeah we've been to base camp a

366

00:13:55,990 --> 00:13:53,189

yeah it was just such a such a beautiful

367

00:13:58,230 --> 00:13:56,000

day and uh and such a such an incredible

368

00:13:59,430 --> 00:13:58,240

shot of of everest that i wanted to take

369

00:14:01,829 --> 00:13:59,440

it there

370

00:14:04,629 --> 00:14:01,839

i had my space walking buddy scott

371

00:14:06,949 --> 00:14:04,639

parazynski from my shuttle flight uh

372

00:14:09,189 --> 00:14:06,959

back a couple of years three years ago

373

00:14:11,110 --> 00:14:09,199

um was uh trying for the summit i just

374

00:14:12,230 --> 00:14:11,120

was going to base camp and then

375

00:14:13,990 --> 00:14:12,240

and then

376

00:14:25,189 --> 00:14:14,000

just around around base camp there

377

00:14:29,350 --> 00:14:27,829

and zero war this is november alpha one

378

00:14:33,350 --> 00:14:29,360

sierra sierra the international space

379

00:14:37,110 --> 00:14:35,350

so you can hear a lot of the static

380

00:14:38,389 --> 00:14:37,120

we've got a lot of calls coming in and a

381

00:14:48,389 --> 00:14:38,399

lot of them get

382

00:14:51,110 --> 00:14:49,590

we've got you loud and clear aboard the

383

00:14:55,269 --> 00:14:51,120

space station welcome aboard november

384

00:15:00,150 --> 00:14:58,470

so you can hear a lot of the static

385

00:15:01,509 --> 00:15:00,160

go ahead we're just getting bits of the

386

00:15:03,509 --> 00:15:01,519

call sign

387

00:15:04,710 --> 00:15:03,519

yeah i missed the question over yeah

388

00:15:06,069 --> 00:15:04,720

what's the first dinner you're gonna

389

00:15:07,750 --> 00:15:06,079

have what's your first meal when you get

390

00:15:09,750 --> 00:15:07,760

home there doug go ahead

391

00:15:12,389 --> 00:15:09,760

first meal huh i don't know

392

00:15:14,870 --> 00:15:12,399

maybe blue bell ice cream with a two

393

00:15:16,470 --> 00:15:14,880

pound bag of peanut m ms or something

394

00:15:18,470 --> 00:15:16,480

that sounds great

395

00:15:20,550 --> 00:15:18,480

great well thanks a lot and i hope you

396

00:15:21,430 --> 00:15:20,560

have a great trip home and i really have

397

00:15:23,910 --> 00:15:21,440

enjoyed

398

00:15:25,910 --> 00:15:23,920

all the uh all the great contact with

399

00:15:28,470 --> 00:15:25,920

you on this trip i'll let others uh get

400

00:15:30,710 --> 00:15:28,480

back in there any one ss and six rsx

401

00:15:32,550 --> 00:15:30,720

73's deck best of luck

402

00:15:34,470 --> 00:15:32,560

thank you very much and then six rsx

403

00:15:36,629 --> 00:15:34,480

actually is sort of kidding about that i

404

00:15:38,389 --> 00:15:36,639

i'm looking forward to like fresh just

405

00:15:40,550 --> 00:15:38,399

fresh vegetables and fruit is really

406

00:15:42,710 --> 00:15:40,560

what i'm looking forward to i can

407

00:15:44,150 --> 00:15:42,720

imagine i can imagine and i'm sure you

408

00:15:47,030 --> 00:15:44,160

have a list of

409

00:15:48,629 --> 00:15:47,040

things to do and

410

00:15:50,150 --> 00:15:48,639

with the family and all of that so

411

00:15:51,829 --> 00:15:50,160

that's the block doug

412

00:15:54,550 --> 00:15:51,839

thank you very much it's been great uh

413

00:16:00,389 --> 00:15:54,560

talking to you 73 to you

414

00:16:04,629 --> 00:16:02,710

so now you can hear a lot of static and

415

00:16:11,990 --> 00:16:04,639

we do have a spell so we can control a

416

00:16:16,230 --> 00:16:14,150

sometimes i'll go off frequency

417

00:16:18,710 --> 00:16:16,240

this is channel one that i'm using now

418

00:16:25,430 --> 00:16:18,720

which is sort of the generic contact

419

00:16:29,430 --> 00:16:27,670

see i missed that one i heard ki-6 and

420

00:16:31,350 --> 00:16:29,440

then missed the second part of the call

421

00:16:36,550 --> 00:16:31,360

sign this is november alpha 1 cr sierra

422

00:16:39,910 --> 00:16:38,470

it's getting really jumbled up now

423

00:16:47,269 --> 00:16:39,920

losing a lot of signals let's see where

424

00:16:51,269 --> 00:16:49,749

copied kilo foxtrot 7 india oscar then

425

00:16:52,389 --> 00:16:51,279

missed the last letter this is november

426

00:16:57,350 --> 00:16:52,399

alpha one sierras here at the

427

00:17:01,430 --> 00:16:59,350

so it's getting really jammed up on

428

00:17:03,269 --> 00:17:01,440

channel one so i'll go to a simplex

429

00:17:09,909 --> 00:17:03,279

channel channel five and usually that's

430

00:17:09,919 --> 00:17:23,590

we're getting some cars over mexico

431

00:17:35,990 --> 00:17:24,870

got you loud and clear aboard the space

432

00:17:39,270 --> 00:17:37,590

it's great to talk to you again as well

433

00:17:43,270 --> 00:17:39,280

i missed the call sign it got blocked

434

00:17:47,350 --> 00:17:45,990

papa delta w0

435

00:17:49,270 --> 00:17:47,360

okay great i thought i was missing a

436

00:17:50,549 --> 00:17:49,280

letter there so whiskey zero papa delta

437

00:17:52,070 --> 00:17:50,559

we've got you loud and clear it's great

438

00:17:53,190 --> 00:17:52,080

to talk to you again aboard the

439

00:17:55,909 --> 00:17:53,200

international space station this is

440

00:18:01,830 --> 00:17:55,919

colonel doug wheelock and uh 73 to you

441

00:18:06,549 --> 00:18:03,990

so we're now over uh looks like we're

442

00:18:08,230 --> 00:18:06,559

over central new mexico

443

00:18:10,150 --> 00:18:08,240

kind of coming down uh

444

00:18:15,669 --> 00:18:10,160

near brownsville kind of paralleling the

445

00:18:19,270 --> 00:18:17,029

pretty quiet there tonight but i'll make

446

00:18:21,430 --> 00:18:19,280

a call make a call to see what kind of

447

00:18:23,110 --> 00:18:21,440

response we get this is november alpha

448

00:18:31,270 --> 00:18:23,120

one sierra sierra the international

449

00:18:35,029 --> 00:18:33,029

okay colin from texas i missed the call

450

00:18:39,110 --> 00:18:35,039

sign this is november alpha one crc or

451

00:18:39,120 --> 00:18:44,070

see how hard it is

452

00:18:47,350 --> 00:18:45,990

okay i heard an oscar there and i missed

453

00:18:49,029 --> 00:18:47,360

the first the whole first part of that

454

00:18:51,669 --> 00:18:49,039

call sign but this is november alpha one

455

00:18:52,789 --> 00:18:51,679

sierra sierra i got you the last part of

456

00:18:54,070 --> 00:18:52,799

it loud and clear aboard the

457

00:19:03,510 --> 00:18:54,080

international space station welcome

458

00:19:06,549 --> 00:19:05,270

whiskey five sugar sugar victor we've

459

00:19:07,909 --> 00:19:06,559

got you loud and clear welcome aboard

460

00:19:12,470 --> 00:19:07,919

the international space station the

461

00:19:17,029 --> 00:19:14,150

call today i just want you to know our

462

00:19:19,590 --> 00:19:17,039

club is 90 miles southeast of houston

463

00:19:21,029 --> 00:19:19,600

we're down around beaumont texas and uh

464

00:19:23,190 --> 00:19:21,039

we're looking forward to getting home

465

00:19:25,110 --> 00:19:23,200

and maybe we can

466

00:19:27,350 --> 00:19:25,120

have dinner when you get back appreciate

467

00:19:29,909 --> 00:19:27,360

you answering a call whiskey five sugar

468

00:19:31,909 --> 00:19:29,919

sugar victory

469

00:19:33,669 --> 00:19:31,919

whiskey five sugar sugar victor i will

470

00:19:35,270 --> 00:19:33,679

take you up on that that's that beaumont

471

00:19:37,350 --> 00:19:35,280

that'll be a short hop for me and uh

472

00:19:39,750 --> 00:19:37,360

we'll come over and do a little talk for

473

00:19:41,029 --> 00:19:39,760

your club and uh and have some dinner

474

00:19:42,470 --> 00:19:41,039

together that'd be that'd be a nice

475

00:19:44,789 --> 00:19:42,480

treat for me

476

00:19:46,950 --> 00:19:44,799

well we appreciate it doug

477

00:19:48,710 --> 00:19:46,960

excuse me dinner will definitely be on

478

00:19:50,630 --> 00:19:48,720

us when you get down on the ground while

479

00:19:52,549 --> 00:19:50,640

you slu and we'll get together i know

480

00:19:54,150 --> 00:19:52,559

our club will be looking forward to it

481

00:19:55,750 --> 00:19:54,160

we've got seven or eight of them out

482

00:19:57,190 --> 00:19:55,760

there right now listening and they've

483

00:19:59,350 --> 00:19:57,200

been trying to talk to you so i'm gonna

484

00:20:01,750 --> 00:19:59,360

keep it sharp thank you and uh good luck

485

00:20:04,549 --> 00:20:01,760

coming home this is whiskey five sugar

486

00:20:06,230 --> 00:20:04,559

sugar victory kb5 and bj thank you thank

487

00:20:10,470 --> 00:20:06,240

you

488

00:20:15,750 --> 00:20:11,909

we had a couple of calls coming in there

489

00:20:18,470 --> 00:20:17,350

it can't be the wa5 but missed the

490

00:20:20,149 --> 00:20:18,480

second part

491

00:20:21,350 --> 00:20:20,159

whiskey alpha five and then i missed the

492

00:20:23,029 --> 00:20:21,360

second part of the call sign this is