



1
00:00:04,640 --> 00:00:03,050
thank you for joining us here at nasa's

2
00:00:06,110 --> 00:00:04,650
kennedy space center in florida for this

3
00:00:08,169 --> 00:00:06,120
media question and answer session with

4
00:00:09,980 --> 00:00:08,179
the crew for space shuttle endeavour's

5
00:00:12,020 --> 00:00:09,990
sts-134 mission to the international

6
00:00:13,039 --> 00:00:12,030
space station normally we do this is an

7
00:00:14,570 --> 00:00:13,049
event we hold with the terminal

8
00:00:15,980 --> 00:00:14,580
countdown demonstration test we know

9
00:00:17,779 --> 00:00:15,990
will hold us out at the launch pad but

10
00:00:19,160 --> 00:00:17,789
due to storms coming through the area we

11
00:00:20,240 --> 00:00:19,170
have moved it inside and you may

12
00:00:22,519 --> 00:00:20,250
occasionally hear the rumble of thunder

13
00:00:24,230 --> 00:00:22,529

or even a tornado siren go off so well

14

00:00:25,310 --> 00:00:24,240

when keep this to about 15 minutes I

15

00:00:27,410 --> 00:00:25,320

want to turn this medial over to the

16

00:00:30,710 --> 00:00:27,420

commander for the sts-134 mission Mark

17

00:00:33,799 --> 00:00:30,720

Kelly sir good morning everybody thanks

18

00:00:37,490 --> 00:00:33,809

for coming out on this beautiful Florida

19

00:00:43,220 --> 00:00:37,500

morning we're supposed to be doing this

20

00:00:45,319 --> 00:00:43,230

out at the launchpad today but that

21

00:00:46,760 --> 00:00:45,329

certainly didn't work out it also the

22

00:00:49,940 --> 00:00:46,770

weather today is going to change our

23

00:00:54,770 --> 00:00:49,950

plans for training at the pad typically

24

00:00:57,920 --> 00:00:54,780

we do some egress and firefighting kind

25

00:01:00,560 --> 00:00:57,930

of training the slide wire down to the

26

00:01:02,240 --> 00:01:00,570

basket the bunker and we're going to

27

00:01:04,579 --> 00:01:02,250

move some of that to tomorrow and maybe

28

00:01:06,170 --> 00:01:04,589

even some of it into the launch week for

29

00:01:08,620 --> 00:01:06,180

a couple of our crew members I haven't

30

00:01:11,750 --> 00:01:08,630

really talked to them about that yet but

31

00:01:15,410 --> 00:01:11,760

that's that's kind of the plan it's good

32

00:01:17,719 --> 00:01:15,420

to be here like I said at the slf the

33

00:01:20,390 --> 00:01:17,729

other day you know this is the time

34

00:01:23,270 --> 00:01:20,400

where our training kind of meets the

35

00:01:24,800 --> 00:01:23,280

processing of the vehicle the vehicles

36

00:01:26,749 --> 00:01:24,810

in great shape we were out there

37

00:01:28,819 --> 00:01:26,759

yesterday we did what's called payload

38

00:01:31,069 --> 00:01:28,829

Bay walk down which is pretty

39

00:01:33,140 --> 00:01:31,079

interesting because the vehicles now in

40

00:01:35,350 --> 00:01:33,150

the vertical so it's more like payload

41

00:01:40,190 --> 00:01:35,360

Bay climb up and down the stairs and

42

00:01:42,649 --> 00:01:40,200

take a look at ELC three and AMS and the

43

00:01:46,910 --> 00:01:42,659

payload Bay and just other interfaces

44

00:01:48,440 --> 00:01:46,920

that our EBA crew members especially

45

00:01:51,260 --> 00:01:48,450

you'll have to deal with as they

46

00:01:53,389 --> 00:01:51,270

translate in and out of the payload Bay

47

00:01:55,999 --> 00:01:53,399

and around that hardware once it gets

48

00:01:58,580 --> 00:01:56,009

moved over to station so that was pretty

49

00:02:01,609 --> 00:01:58,590

valuable for us to do that we did a

50

00:02:07,399 --> 00:02:01,619

couple sta flights the shuttle training

51
00:02:10,040 --> 00:02:07,409
airplane for my pilot and I got ten

52
00:02:11,750 --> 00:02:10,050
dives yesterday morning and we tried

53
00:02:13,760 --> 00:02:11,760
again today but that didn't work out too

54
00:02:17,540 --> 00:02:13,770
well I got to approach

55
00:02:22,610 --> 00:02:17,550
is and Greg got one before we had a land

56
00:02:25,760 --> 00:02:22,620
due to some lousy weather rain and

57
00:02:27,770 --> 00:02:25,770
lightning getting close to the field but

58
00:02:31,400 --> 00:02:27,780
as you guys know we only need one

59
00:02:32,990 --> 00:02:31,410
approach in the orbiter so the you know

60
00:02:35,120 --> 00:02:33,000
one and two approaches was enough for

61
00:02:38,240 --> 00:02:35,130
today I'm going to quickly introduce my

62
00:02:42,170 --> 00:02:38,250
crew and then we'll turn over for some

63
00:02:44,750 --> 00:02:42,180

questions Greg Johnson our pilot retired

64

00:02:46,730 --> 00:02:44,760

Air Force colonel combat pilot from

65

00:02:48,400 --> 00:02:46,740

Desert Storm in the Air Force test pilot

66

00:02:54,350 --> 00:02:48,410

this will be a second flight he flew on

67

00:02:57,050 --> 00:02:54,360

sts-1 23 Mike Fincke ms1 swung two

68

00:02:58,790 --> 00:02:57,060

flights on Soyuz on flight day 12 he

69

00:03:02,780 --> 00:02:58,800

becomes the American with the most time

70

00:03:07,750 --> 00:03:02,790

in space somewhere north of a year I

71

00:03:10,340 --> 00:03:07,760

think right Roberto Vittori our ms to

72

00:03:12,770 --> 00:03:10,350

the flight engineer for the Mission Hill

73

00:03:15,500 --> 00:03:12,780

do some robotic ops he's made two trips

74

00:03:18,850 --> 00:03:15,510

the space station as well both of those

75

00:03:21,620 --> 00:03:18,860

on soyuz like mike and then drew Feustel

76
00:03:23,780 --> 00:03:21,630
he was one of the spacewalkers for the

77
00:03:25,310 --> 00:03:23,790
last Hubble repair mission is our lead

78
00:03:27,560 --> 00:03:25,320
spacewalker for this flight so he's

79
00:03:31,520 --> 00:03:27,570
flown before on the space shuttle on

80
00:03:34,640 --> 00:03:31,530
sts-125 and then Greg Chamitoff one of

81
00:03:40,220 --> 00:03:34,650
our other space walkers who flew with me

82
00:03:42,440 --> 00:03:40,230
on sts-1 24 my last flight where he

83
00:03:45,980 --> 00:03:42,450
spent a hundred and eighty three days i

84
00:03:47,510 --> 00:03:45,990
think in space this time when we closed

85
00:03:50,060 --> 00:03:47,520
the hatch he'll be on the orbiter side

86
00:03:51,470 --> 00:03:50,070
instead of the space station side so

87
00:03:52,610 --> 00:03:51,480
that makes me feel a little better so i

88
00:03:56,180 --> 00:03:52,620

don't have to close the hatch on them

89

00:03:57,830 --> 00:03:56,190

again I'd like to keep the questions

90

00:04:00,640 --> 00:03:57,840

related to the mission if at all

91

00:04:02,570 --> 00:04:00,650

possible we're still working on plans

92

00:04:04,760 --> 00:04:02,580

Jerry and I were actually talking this

93

00:04:06,710 --> 00:04:04,770

morning a little bit if if my wife can

94

00:04:09,170 --> 00:04:06,720

can make it down here for the flight so

95

00:04:11,090 --> 00:04:09,180

that's still being discussed don't have

96

00:04:15,080 --> 00:04:11,100

final approval for more doctors yet but

97

00:04:16,610 --> 00:04:15,090

we we are pretty hopeful that she may be

98

00:04:19,729 --> 00:04:16,620

able to get down here so let me just

99

00:04:22,580 --> 00:04:19,739

turn it over to for questions awful just

100

00:04:23,930 --> 00:04:22,590

one question piece name news affiliation

101
00:04:27,520 --> 00:04:23,940
and we'll get on as many people as

102
00:04:29,630 --> 00:04:27,530
possible sort of with Marsha row

103
00:04:31,130 --> 00:04:29,640
Marcia Dunn Associated Press for

104
00:04:32,930 --> 00:04:31,140
commander Kelly its longtime tradition

105
00:04:35,330 --> 00:04:32,940
for each astronaut to have a pre-flight

106
00:04:36,530 --> 00:04:35,340
party even though they can't go are you

107
00:04:38,450 --> 00:04:36,540
going to be able to organize such a

108
00:04:40,040 --> 00:04:38,460
thing have you and will Scott be your

109
00:04:44,810 --> 00:04:40,050
host and how many guests are you

110
00:04:46,640 --> 00:04:44,820
personally expecting I've been asked

111
00:04:49,430 --> 00:04:46,650
that a number of times and I've been

112
00:04:53,750 --> 00:04:49,440
pretty busy some of my guests have even

113
00:04:55,670 --> 00:04:53,760

asked folks at NASA that you know are

114

00:04:57,530 --> 00:04:55,680

somewhat interested we typically send

115

00:04:59,750 --> 00:04:57,540

other other members of our office there

116

00:05:01,640 --> 00:04:59,760

they've asked as well and I haven't put

117

00:05:04,400 --> 00:05:01,650

it together yet so if you're willing to

118

00:05:07,630 --> 00:05:04,410

organize it for me I think we might have

119

00:05:10,900 --> 00:05:07,640

a volunteer so I don't know we'll see

120

00:05:14,090 --> 00:05:10,910

I've not decided yet do you have many

121

00:05:17,840 --> 00:05:14,100

extended family or I've got friends how

122

00:05:21,770 --> 00:05:17,850

I got a few guests coming right give it

123

00:05:24,580 --> 00:05:21,780

for a low Jim Siegel celebration

124

00:05:28,730 --> 00:05:24,590

independent newspaper I believe that

125

00:05:32,330 --> 00:05:28,740

Greg and Mike are going to be removing

126
00:05:36,260 --> 00:05:32,340
the boom from the orbiter and installing

127
00:05:38,420 --> 00:05:36,270
it on the space station and is this the

128
00:05:41,990 --> 00:05:38,430
first time that a boom has been removed

129
00:05:43,520 --> 00:05:42,000
from the space shuttle in space and tell

130
00:05:45,380 --> 00:05:43,530
could you tell us a little bit about how

131
00:05:49,340 --> 00:05:45,390
you plan to do this where it's going to

132
00:05:51,650 --> 00:05:49,350
be removed from from the orbiter and how

133
00:05:57,230 --> 00:05:51,660
you're going to place it on the on the

134
00:05:59,750 --> 00:05:57,240
space station no it's not the first time

135
00:06:03,740 --> 00:05:59,760
actually last time when I was up there

136
00:06:07,400 --> 00:06:03,750
with with mark we were picking it up

137
00:06:08,840 --> 00:06:07,410
because the jam was brought up in SS 124

138
00:06:10,670 --> 00:06:08,850

there was enough room to have the boom

139

00:06:12,409 --> 00:06:10,680

in the pale bay at the same time so it

140

00:06:16,490 --> 00:06:12,419

was dropped off on a previous previous

141

00:06:18,110 --> 00:06:16,500

flight but basically there's some

142

00:06:20,960 --> 00:06:18,120

coordination here with robotics and EV a

143

00:06:23,210 --> 00:06:20,970

box will be flying the arm as well the

144

00:06:25,100 --> 00:06:23,220

the station robotic arm will have the

145

00:06:28,030 --> 00:06:25,110

boom honored at the time that we mount

146

00:06:30,530 --> 00:06:28,040

it to the stage space station there's

147

00:06:33,290 --> 00:06:30,540

two standoffs that are on top of the

148

00:06:35,779 --> 00:06:33,300

truss and these are special mechanisms

149

00:06:38,600 --> 00:06:35,789

designed to to secure the boom to the

150

00:06:39,439 --> 00:06:38,610

truss and i'll be at one end Michael be

151
00:06:41,299 --> 00:06:39,449
at the other end

152
00:06:42,860 --> 00:06:41,309
it's very careful coordination to bring

153
00:06:45,019 --> 00:06:42,870
this you know very large boom in

154
00:06:48,350 --> 00:06:45,029
carefully and and and then a handoff

155
00:06:51,230 --> 00:06:48,360
where Mike and I will be holding on to

156
00:06:53,570 --> 00:06:51,240
the boom as box releases the arm and

157
00:06:54,860 --> 00:06:53,580
backs away and then we secure it and

158
00:06:57,920 --> 00:06:54,870
then tie it down and there's some work

159
00:06:59,480 --> 00:06:57,930
we're going to do to the rican to

160
00:07:00,950 --> 00:06:59,490
configure it and actually part of that

161
00:07:02,989 --> 00:07:00,960
part of the reason for putting it there

162
00:07:04,309 --> 00:07:02,999
in the first place this time is to leave

163
00:07:06,799 --> 00:07:04,319

it up there for potentially use on the

164

00:07:08,719 --> 00:07:06,809

station to possibly reach far out of you

165

00:07:11,989 --> 00:07:08,729

know if we need it for some future

166

00:07:13,760 --> 00:07:11,999

repair or something so we're going to be

167

00:07:15,499 --> 00:07:13,770

reconfiguring it so that the station erm

168

00:07:16,640 --> 00:07:15,509

can grapple at at right at the end which

169

00:07:18,050 --> 00:07:16,650

means change changing out an end

170

00:07:23,450 --> 00:07:18,060

effector which is part of that e VA as

171

00:07:27,950 --> 00:07:23,460

well it was going to be somehow

172

00:07:30,170 --> 00:07:27,960

connected or well I guess connected to

173

00:07:33,920 --> 00:07:30,180

the boom this on the space station now

174

00:07:35,989 --> 00:07:33,930

did double its alright so what reason

175

00:07:37,459 --> 00:07:35,999

were right once it's on this on the

176

00:07:39,409 --> 00:07:37,469

station and left there it's possible for

177

00:07:41,119 --> 00:07:39,419

the station to grapple it from the end

178

00:07:47,839 --> 00:07:41,129

and then it basically extend the reach

179

00:07:49,010 --> 00:07:47,849

of the station robotic arm right if you

180

00:07:50,809 --> 00:07:49,020

can cover on this side since you're

181

00:07:54,559 --> 00:07:50,819

already halfway there yeah on the side

182

00:07:56,989 --> 00:07:54,569

thank you yes the milk duty is a TV it's

183

00:07:58,790 --> 00:07:56,999

a Roberto Vittori and on behalf of the

184

00:08:01,369 --> 00:07:58,800

European broadcasters we could not make

185

00:08:05,329 --> 00:08:01,379

it here first of all how do you feel and

186

00:08:06,649 --> 00:08:05,339

how do you feel with next to the shutter

187

00:08:08,689 --> 00:08:06,659

of course and the first time you're

188

00:08:11,149 --> 00:08:08,699

gonna be in the shutter and in these

189

00:08:12,679 --> 00:08:11,159

last days until the launch and if you

190

00:08:15,350 --> 00:08:12,689

could translate in Italian afterwards

191

00:08:17,899 --> 00:08:15,360

please just buy the weather and very

192

00:08:21,619 --> 00:08:17,909

happy to be here today first opportunity

193

00:08:23,659 --> 00:08:21,629

to fly on the shadow and I fly on this

194

00:08:26,269 --> 00:08:23,669

opportunity of the Italian space agency

195

00:08:29,719 --> 00:08:26,279

as astronaut or european space agency

196

00:08:33,350 --> 00:08:29,729

and i look forward to see AMS installed

197

00:08:34,900 --> 00:08:33,360

to the international space station you

198

00:08:40,840 --> 00:08:34,910

wanna tagging

199

00:08:44,920 --> 00:08:40,850

a perma- racer qua OG McGraw del tempo

200

00:08:46,300 --> 00:08:44,930

non perfetto Tootie berbera divison and

201
00:08:48,880 --> 00:08:46,310
and own Elodie Reed cigarette a brown

202
00:08:50,500 --> 00:08:48,890
van traditional arilla is la misión a

203
00:08:52,570 --> 00:08:50,510
una importante mission de la agencia

204
00:08:59,710 --> 00:08:52,580
spatula dayani bulova maestro nada del

205
00:09:03,880 --> 00:08:59,720
agencia spatula repair i have been

206
00:09:06,040 --> 00:09:03,890
training for about since 98 and yes it's

207
00:09:09,570 --> 00:09:06,050
very important finally to get to the

208
00:09:13,270 --> 00:09:09,580
subspace felt opportunity on the shadow

209
00:09:15,880 --> 00:09:13,280
since sono in a destra mentor I used on

210
00:09:17,860 --> 00:09:15,890
Donovan tata mcgraw delayed way in

211
00:09:20,470 --> 00:09:17,870
Tiruchi oni parabola day so you say

212
00:09:21,970 --> 00:09:20,480
Chetta meant mot importante ave

213
00:09:29,650 --> 00:09:21,980

requested oportunidad de veau la

214

00:09:33,100 --> 00:09:29,660

spaziale table in English please Dan

215

00:09:36,010 --> 00:09:33,110

billow from w/e sh t VI I think for drew

216

00:09:39,130 --> 00:09:36,020

are you making I believe you're making

217

00:09:43,030 --> 00:09:39,140

the last shuttle last space walk by a

218

00:09:45,790 --> 00:09:43,040

space shuttle crew yeah how do you feel

219

00:09:47,320 --> 00:09:45,800

about that and any special plans for

220

00:09:50,080 --> 00:09:47,330

that or way of commemorating that

221

00:09:51,460 --> 00:09:50,090

anything i'm going to happen well we are

222

00:09:53,230 --> 00:09:51,470

excited to have the opportunity to be

223

00:09:55,270 --> 00:09:53,240

the last space shuttle crew performing a

224

00:09:57,310 --> 00:09:55,280

VA's on the space station of course

225

00:09:59,050 --> 00:09:57,320

after we leave this space station does

226
00:10:00,730 --> 00:09:59,060
have the capability of doing Evie A's as

227
00:10:02,770 --> 00:10:00,740
well that would be station based cruise

228
00:10:04,300 --> 00:10:02,780
so of course we're taking this

229
00:10:05,920 --> 00:10:04,310
opportunity we started out with three

230
00:10:08,320 --> 00:10:05,930
EVs on the mission and eventually added

231
00:10:10,210 --> 00:10:08,330
a fourth we've filled our time on each

232
00:10:11,710 --> 00:10:10,220
of the EV a's to try to maximize you

233
00:10:12,850 --> 00:10:11,720
know the usefulness of having us there

234
00:10:14,770 --> 00:10:12,860
and having the training that we can

235
00:10:17,320 --> 00:10:14,780
carry out in houston to prepare for the

236
00:10:18,790 --> 00:10:17,330
for the mission so we don't have any

237
00:10:21,010 --> 00:10:18,800
special commemorations actually Greg

238
00:10:23,740 --> 00:10:21,020

jama tov will be the last individual the

239

00:10:27,250 --> 00:10:23,750

last shuttle bay Stevie a crew member to

240

00:10:29,230 --> 00:10:27,260

close the space station hatch so as the

241

00:10:30,640 --> 00:10:29,240

lead spacewalker have designated him as

242

00:10:33,730 --> 00:10:30,650

the one that will give the grant speech

243

00:10:35,410 --> 00:10:33,740

and he's been working on that task i

244

00:10:39,820 --> 00:10:35,420

think some time now preparing to be

245

00:10:41,440 --> 00:10:39,830

ready for the end of the mission mark

246

00:10:44,440 --> 00:10:41,450

Ratterman with talking space a question

247

00:10:46,510 --> 00:10:44,450

for drew Feustel could you tell us a

248

00:10:48,249 --> 00:10:46,520

little about kerr tech the children's

249

00:10:51,009 --> 00:10:48,259

cartoon favorite who's going

250

00:10:54,039 --> 00:10:51,019

be making a flight on endeavour from the

251
00:10:56,949 --> 00:10:54,049
Czech Republic career tech is Benna as a

252
00:10:58,719 --> 00:10:56,959
small animal animated character that's

253
00:11:03,159 --> 00:10:58,729
been in the news recently and it's an

254
00:11:05,289 --> 00:11:03,169
item that is flying something that's was

255
00:11:09,219 --> 00:11:05,299
selected that's very popular in Europe

256
00:11:11,199 --> 00:11:09,229
and especially the Czech Republic and is

257
00:11:12,879 --> 00:11:11,209
a character that we hope is captured the

258
00:11:14,619 --> 00:11:12,889
imagination of the kids there and

259
00:11:16,090 --> 00:11:14,629
there's been a science program and

260
00:11:19,569 --> 00:11:16,100
outreach program designed around

261
00:11:22,179 --> 00:11:19,579
caretech and we hope to to be able to

262
00:11:24,969 --> 00:11:22,189
you know extend the experience of space

263
00:11:27,400 --> 00:11:24,979

to many of the kids there in Europe and

264

00:11:30,429 --> 00:11:27,410

you know try to do some outreach you

265

00:11:31,929 --> 00:11:30,439

know highlighting science technology

266

00:11:34,090 --> 00:11:31,939

engineering mathematics to those kids

267

00:11:36,159 --> 00:11:34,100

and getting them excited so it's just

268

00:11:37,719 --> 00:11:36,169

one of these items that we help to be

269

00:11:44,169 --> 00:11:37,729

able to do some outreach with while

270

00:11:46,299 --> 00:11:44,179

we're on the mission okay with cbs4 the

271

00:11:49,539 --> 00:11:46,309

commander of a question you can't answer

272

00:11:51,039 --> 00:11:49,549

but it's not about an obvious topic you

273

00:11:52,509 --> 00:11:51,049

guys talk to the government and thought

274

00:11:53,859 --> 00:11:52,519

about the shutdown I'm sure and there's

275

00:11:55,960 --> 00:11:53,869

a lot of talk going on right now that on

276

00:11:57,579 --> 00:11:55,970

the eighth there might be a shutdown and

277

00:11:59,049 --> 00:11:57,589

given what little continuous that you

278

00:12:01,239 --> 00:11:59,059

guys have in your flow I just wondered

279

00:12:02,289 --> 00:12:01,249

if you guys have discussed it you had a

280

00:12:04,509 --> 00:12:02,299

message you wanted to send to the

281

00:12:05,619 --> 00:12:04,519

lawmakers who make these decisions where

282

00:12:10,470 --> 00:12:05,629

do you guys what do you think about all

283

00:12:14,169 --> 00:12:10,480

that we was discussing this topic with

284

00:12:15,909 --> 00:12:14,179

Colonel Bob Cabana just yesterday as you

285

00:12:18,429 --> 00:12:15,919

guys know is the KSC center director

286

00:12:22,059 --> 00:12:18,439

about what would happen with regards to

287

00:12:25,379 --> 00:12:22,069

the sea are headquartered headquarters

288

00:12:28,179 --> 00:12:25,389

has a plan I think it depends a lot on

289

00:12:32,169 --> 00:12:28,189

what NASA headquarters decides with

290

00:12:34,269 --> 00:12:32,179

regards to you know what the with what

291

00:12:36,249 --> 00:12:34,279

the CR means with the language is

292

00:12:38,769 --> 00:12:36,259

whether or not there's a CR there are

293

00:12:40,259 --> 00:12:38,779

some I think there's a are some

294

00:12:42,819 --> 00:12:40,269

opportunities where we could actually

295

00:12:45,460 --> 00:12:42,829

continue towards an April nineteenth

296

00:12:46,689 --> 00:12:45,470

launch date if there's not a CR I don't

297

00:12:48,009 --> 00:12:46,699

have those details I think you could

298

00:12:52,190 --> 00:12:48,019

probably get those from from NASA

299

00:12:55,170 --> 00:12:52,200

headquarters though Todd

300

00:12:58,560 --> 00:12:55,180

todd halverson Oh Florida today for

301

00:13:00,840 --> 00:12:58,570

whoever wants to field it i'm just

302

00:13:11,460 --> 00:13:00,850

wondering what it's like to work for

303

00:13:14,940 --> 00:13:11,470

Mark Kelly I've been associated with the

304

00:13:18,510 --> 00:13:14,950

mark since 1996 we were all same

305

00:13:20,520 --> 00:13:18,520

classmates and I haven't had a chance to

306

00:13:21,600 --> 00:13:20,530

walk in mark shoes exactly but like his

307

00:13:23,100 --> 00:13:21,610

brother I was commander of the

308

00:13:24,660 --> 00:13:23,110

International Space Station and I

309

00:13:27,300 --> 00:13:24,670

appreciate what it all the hard work and

310

00:13:30,120 --> 00:13:27,310

all the thankless jobs you get sometimes

311

00:13:32,250 --> 00:13:30,130

being a commander and then you had you

312

00:13:35,250 --> 00:13:32,260

know a particularly difficult family

313

00:13:36,930 --> 00:13:35,260

situation and I've just like to say that

314

00:13:38,580 --> 00:13:36,940

marks been doing an outstanding job he's

315

00:13:41,190 --> 00:13:38,590

been providing great leadership to our

316

00:13:42,990 --> 00:13:41,200

crew and giving us what we need so that

317

00:13:45,480 --> 00:13:43,000

we can do our job and I like to

318

00:13:47,580 --> 00:13:45,490

compliment our crewmates for being there

319

00:13:50,460 --> 00:13:47,590

for for mark because we're we're team

320

00:13:52,050 --> 00:13:50,470

we're a family and from what we've seen

321

00:13:54,000 --> 00:13:52,060

so far oh I don't think there's anything

322

00:13:55,530 --> 00:13:54,010

out there that we can't handle when we

323

00:13:58,790 --> 00:13:55,540

work together as well as we do when we

324

00:14:00,990 --> 00:13:58,800

have our game on this is an amazing crew

325

00:14:05,610 --> 00:14:01,000

we had a couple minutes left sell soda

326

00:14:07,500 --> 00:14:05,620

okay James Dean from Florida today for

327

00:14:09,990 --> 00:14:07,510

the commander a pilot with the 30th

328

00:14:12,060 --> 00:14:10,000

anniversary of sts-1 coming up I

329

00:14:14,160 --> 00:14:12,070

wondered if he could imagine yourselves

330

00:14:16,440 --> 00:14:14,170

in the shoes of your counterparts 30

331

00:14:18,150 --> 00:14:16,450

years ago as they strapped into fly

332

00:14:20,130 --> 00:14:18,160

vehicle had never been launched before

333

00:14:22,530 --> 00:14:20,140

never been in space never re-entered

334

00:14:24,930 --> 00:14:22,540

does that strike you even given the

335

00:14:27,570 --> 00:14:24,940

risks you all still take today as

336

00:14:29,970 --> 00:14:27,580

something that was extremely bold and

337

00:14:31,710 --> 00:14:29,980

can you imagine being in a position

338

00:14:33,300 --> 00:14:31,720

again with a with the next generation

339

00:14:36,900 --> 00:14:33,310

vehicle and something that had not yet

340

00:14:40,620 --> 00:14:36,910

been test flown in the way you fly wow I

341

00:14:44,130 --> 00:14:40,630

I have to say any time whether it be a

342

00:14:47,330 --> 00:14:44,140

new airplane or a new spacecraft when

343

00:14:49,980 --> 00:14:47,340

you strap it on for the first time there

344

00:14:52,740 --> 00:14:49,990

that that's that's very significant and

345

00:14:55,710 --> 00:14:52,750

I think every single spaced every time

346

00:14:57,690 --> 00:14:55,720

you strap on a space shuttle there there

347

00:14:59,730 --> 00:14:57,700

is some intimidation among the crew

348

00:15:02,490 --> 00:14:59,740

members knowing that there's just an

349

00:15:05,070 --> 00:15:02,500

awesome amount of power and something

350

00:15:05,759 --> 00:15:05,080

that's that's going to be a milestone in

351

00:15:08,249 --> 00:15:05,769

there and

352

00:15:10,919 --> 00:15:08,259

life whether it's the first time or the

353

00:15:13,350 --> 00:15:10,929

fourth time and mark and I were talking

354

00:15:17,040 --> 00:15:13,360

about it today how excited we are to be

355

00:15:18,720 --> 00:15:17,050

flying endeavour in a couple weeks but

356

00:15:21,239 --> 00:15:18,730

those first guys I think they're very

357

00:15:26,280 --> 00:15:21,249

brave and and I know we learned a lot

358

00:15:29,780 --> 00:15:26,290

from sts-1 but each mission is is a test

359

00:15:34,350 --> 00:15:29,790

mission and so we're using the same

360

00:15:36,840 --> 00:15:34,360

attention to detail and the same focus I

361

00:15:39,479 --> 00:15:36,850

think even now as they were on the very

362

00:15:44,869 --> 00:15:39,489

first mission I remember being in the

363

00:15:48,979 --> 00:15:44,879

being in the 11th grade in 1981 and

364

00:15:52,309 --> 00:15:48,989

first learning that John Young and and

365

00:15:57,329 --> 00:15:52,319

babka Bob Robert Crippen we're going to

366

00:16:01,009 --> 00:15:57,339

fly Colombia without the vehicle being

367

00:16:05,729 --> 00:16:01,019

previously tested and having just being

368

00:16:08,789 --> 00:16:05,739

17 years old at the time and not knowing

369

00:16:11,280 --> 00:16:08,799

anything about the space business and

370

00:16:14,189 --> 00:16:11,290

anything about aviation I do recall

371

00:16:16,019 --> 00:16:14,199

thinking myself are you kidding me these

372

00:16:17,429 --> 00:16:16,029

these guys are going to climb in here

373

00:16:19,769 --> 00:16:17,439

and this thing's never flown before I

374

00:16:21,960 --> 00:16:19,779

really remember thinking that so you got

375

00:16:26,669 --> 00:16:21,970

to give him credit you know for doing

376

00:16:27,689 --> 00:16:26,679

that that was an incredibly bold move if

377

00:16:30,480 --> 00:16:27,699

you know a little bit about how the

378

00:16:33,329 --> 00:16:30,490

shuttle works and how important it is to

379

00:16:36,900 --> 00:16:33,339

have a crew on board to mitigate the

380

00:16:38,189 --> 00:16:36,910

risk the shuttle is a very complex

381

00:16:40,350 --> 00:16:38,199

vehicle so it was actually very

382

00:16:42,809 --> 00:16:40,360

important to have the crew on board at

383

00:16:44,460 --> 00:16:42,819

the same time when you consider the

384

00:16:47,129 --> 00:16:44,470

complexity and the fact that it hadn't

385

00:16:49,199 --> 00:16:47,139

flown you know that really was a very

386

00:16:51,840 --> 00:16:49,209

brave thing for the for the two of those

387

00:16:54,900 --> 00:16:51,850

guys to do so you know you know hats off

388

00:16:57,929 --> 00:16:54,910

to them and I know whenever I see John

389

00:17:00,979 --> 00:16:57,939

and Bob you know occasionally we'll talk

390

00:17:03,059 --> 00:17:00,989

about that you know that's one of those

391

00:17:05,100 --> 00:17:03,069

you know things that I think is going to

392

00:17:08,669 --> 00:17:05,110

go down in history as one of the bravest

393

00:17:10,500 --> 00:17:08,679

thing two people have ever done yeah we

394

00:17:12,360 --> 00:17:10,510

are I'm fortunate out of time but they

395

00:17:14,449 --> 00:17:12,370

were turn this back over to Peter Kelly

396

00:17:17,039 --> 00:17:14,459

for a couple welcome thanks for coming

397

00:17:19,710 --> 00:17:17,049

nobody asked about AMS so I'm going to

398

00:17:22,169 --> 00:17:19,720

make a quick comment the Alpha Magnetic

399

00:17:25,380 --> 00:17:22,179

trauma tur is going to be one of the

400

00:17:29,399 --> 00:17:25,390

premier you know science experiments of

401
00:17:34,110 --> 00:17:29,409
the 21st century we hope you know Hubble

402
00:17:37,980 --> 00:17:34,120
has shown millions of people incredible

403
00:17:41,640 --> 00:17:37,990
pictures of you know not only our galaxy

404
00:17:44,039 --> 00:17:41,650
but the universe and we can learn a lot

405
00:17:45,990 --> 00:17:44,049
from those images but what AMS is going

406
00:17:49,380 --> 00:17:46,000
to do is going to teach us a lot about

407
00:17:51,299 --> 00:17:49,390
what you know what we're seeing in those

408
00:17:55,289 --> 00:17:51,309
pictures what what's the makeup of the

409
00:17:57,779 --> 00:17:55,299
cosmos and you know as a crew being

410
00:17:59,399 --> 00:17:57,789
involved with this experiment we're

411
00:18:01,350 --> 00:17:59,409
pretty excited about what the results

412
00:18:06,659 --> 00:18:01,360
are going to be we're talking to dr.

413
00:18:08,610 --> 00:18:06,669

ting just yesterday at the pad professor

414

00:18:11,789 --> 00:18:08,620

Samuel ting who won the Nobel Prize for

415

00:18:15,750 --> 00:18:11,799

Physics who is the program manager for

416

00:18:19,590 --> 00:18:15,760

AMS and he told us just yesterday that

417

00:18:23,399 --> 00:18:19,600

within an hour of Greg and Greg

418

00:18:25,620 --> 00:18:23,409

attaching this to space station they're

419

00:18:27,299 --> 00:18:25,630

going to start having data and they're

420

00:18:33,890 --> 00:18:27,309

going to collect data over the next 15

421

00:18:36,810 --> 00:18:33,900

or 20 years and AMS could be teaching us

422

00:18:40,730 --> 00:18:36,820

things about the universe that are

423

00:18:43,230 --> 00:18:40,740

completely unexpected so we'll see what

424

00:18:45,930 --> 00:18:43,240

you know what it what it can tell us but

425

00:18:49,289 --> 00:18:45,940

we're certainly very excited about the

426

00:18:52,620 --> 00:18:49,299

prospects for that science so again

427

00:18:55,529 --> 00:18:52,630

thanks for coming we'll finish t CDT

428

00:18:58,740 --> 00:18:55,539

tomorrow and head back to Euston early

429

00:19:00,240 --> 00:18:58,750

afternoon thank you alright thank you

430

00:19:01,350 --> 00:19:00,250

for joining us and we'll see you