



1  
00:00:32,950 --> 00:00:30,550  
well good morning houston thank you for

2  
00:00:34,630 --> 00:00:32,960  
that uh great uh rendition of days

3  
00:00:36,150 --> 00:00:34,640  
goodbye by uh

4  
00:00:38,150 --> 00:00:36,160  
and uh

5  
00:00:39,030 --> 00:00:38,160  
so we better start living and we are

6  
00:00:41,110 --> 00:00:39,040  
we're

7  
00:00:42,709 --> 00:00:41,120  
enjoying every minute up here and uh

8  
00:00:47,350 --> 00:00:42,719  
thanks so much for the greeting from the

9  
00:00:50,069 --> 00:00:48,470  
people who

10  
00:00:52,709 --> 00:00:50,079  
have made some incredible things happen

11  
00:00:53,830 --> 00:00:52,719  
in space flight we thank you for uh that

12  
00:00:58,470 --> 00:00:53,840  
greater what we're looking forward to

13  
00:01:02,630 --> 00:01:00,950

just floating through the uh

14

00:01:05,270 --> 00:01:02,640  
through the airlock it gets a little

15

00:01:08,630 --> 00:01:05,280  
noisier in here

16

00:01:10,870 --> 00:01:08,640  
now we uh we pitch up

17

00:01:13,910 --> 00:01:10,880  
90 degrees

18

00:01:15,830 --> 00:01:13,920  
that's the back uh back of the air lock

19

00:01:17,749 --> 00:01:15,840  
where when you uh

20

00:01:19,109 --> 00:01:17,759  
you do a spacewalk

21

00:01:22,870 --> 00:01:19,119  
out of the shuttle that's where you get

22

00:01:31,429 --> 00:01:25,109  
there we are making our way up into

23

00:01:34,550 --> 00:01:33,190  
tight clearances in some of these areas

24

00:01:36,069 --> 00:01:34,560  
that's probably the tightest one right

25

00:01:39,190 --> 00:01:36,079  
there

26

00:01:45,749 --> 00:01:39,200

okay and we emerge into uh into the node

27

00:01:53,190 --> 00:01:49,190

now first we're going to look down

28

00:01:55,910 --> 00:01:53,200

we're going to look down into the mplm

29

00:01:58,069 --> 00:01:55,920

now mplm work

30

00:02:00,069 --> 00:01:58,079

is kind of underway

31

00:02:02,389 --> 00:02:00,079

and one thing i find quickly is you have

32

00:02:06,069 --> 00:02:02,399

to orient yourself in each module

33

00:02:06,830 --> 00:02:06,079

so down to me in this module

34

00:02:12,150 --> 00:02:06,840

is

35

00:02:14,630 --> 00:02:12,160

down

36

00:02:15,750 --> 00:02:14,640

is because when we land it's going to be

37

00:02:17,350 --> 00:02:15,760

this side

38

00:02:19,030 --> 00:02:17,360

that faces earth

39

00:02:21,350 --> 00:02:19,040

so when we think about how we pack

40

00:02:23,510 --> 00:02:21,360

things especially water

41

00:02:25,350 --> 00:02:23,520

we pack it so that it'll be lying on

42

00:02:26,710 --> 00:02:25,360

something flat

43

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

when we come back

44

00:02:30,630 --> 00:02:29,360

and we don't pack it on something sharp

45

00:02:31,910 --> 00:02:30,640

so that when we come back into the

46

00:02:33,190 --> 00:02:31,920

atmosphere

47

00:02:35,750 --> 00:02:33,200

and we

48

00:02:40,070 --> 00:02:35,760

get back into a gravitational field it

49

00:02:44,630 --> 00:02:40,080

falls onto something sharp and pops

50

00:03:02,869 --> 00:02:46,470

take a look back

51  
00:03:02,879 --> 00:03:08,550  
and now we'll hang a right turn

52  
00:03:11,830 --> 00:03:09,670  
but

53  
00:03:13,030 --> 00:03:11,840  
what we have to do is orient ourselves

54  
00:03:15,030 --> 00:03:13,040  
to down

55  
00:03:19,030 --> 00:03:15,040  
in the space station

56  
00:03:22,390 --> 00:03:20,550  
so that's the direction we were

57  
00:03:23,670 --> 00:03:22,400  
initially facing when we came into space

58  
00:03:25,190 --> 00:03:23,680  
station but we're not going to go that

59  
00:03:27,830 --> 00:03:25,200  
way yet because there's a couple other

60  
00:03:29,750 --> 00:03:27,840  
things to look at here

61  
00:03:34,229 --> 00:03:29,760  
and the first one

62  
00:03:38,710 --> 00:03:37,190  
this is the japanese module

63  
00:03:41,350 --> 00:03:38,720

and it is always the quietest and

64

00:03:43,270 --> 00:03:41,360

cleanest place on the space station

65

00:03:45,430 --> 00:03:43,280

we have all of our press events right

66

00:03:48,070 --> 00:03:45,440

there which is why

67

00:03:49,270 --> 00:03:48,080

that camera is hanging up there

68

00:03:51,350 --> 00:03:49,280

and we're just going to float through

69

00:03:54,470 --> 00:03:51,360

here

70

00:04:02,789 --> 00:03:54,480

and i'm going to show you one more thing

71

00:04:02,799 --> 00:04:06,869

and we have to pitch up here

72

00:04:11,110 --> 00:04:09,670

and we look into what's called the jlp

73

00:04:13,030 --> 00:04:11,120

or the attic

74

00:04:15,990 --> 00:04:13,040

and that is very very clean too houston

75

00:04:17,670 --> 00:04:16,000

station on the big loop this is mike

76  
00:04:21,909 --> 00:04:17,680  
i'll go back in there's a couple windows

77  
00:04:28,790 --> 00:04:24,790  
you look out one of them right now

78  
00:04:30,310 --> 00:04:28,800  
and put some files in the t drive oca

79  
00:04:33,270 --> 00:04:30,320  
down

80  
00:04:38,230 --> 00:04:36,150  
folder for photo tv

81  
00:04:38,950 --> 00:04:38,240  
3d

82  
00:04:43,270 --> 00:04:38,960  
and

83  
00:04:46,070 --> 00:04:43,280  
files there if uh you guys could get

84  
00:04:48,469 --> 00:04:46,080  
those how's that for a winner of a view

85  
00:04:52,550 --> 00:04:48,479  
downloaded and then let the jsc photo tv

86  
00:04:52,560 --> 00:04:58,230  
it's beautiful place from up here

87  
00:05:02,550 --> 00:04:59,430  
all right we're going to close this

88  
00:05:06,710 --> 00:05:04,469

it's a little shutter it's a wheel just

89

00:05:14,790 --> 00:05:06,720

off to my left that i'm turning

90

00:05:34,390 --> 00:05:16,469

and we're gonna head out

91

00:05:37,350 --> 00:05:35,990

now we're coming up on that node i

92

00:05:41,510 --> 00:05:37,360

mentioned

93

00:05:49,189 --> 00:05:44,070

is the columbus module we'll just take a

94

00:05:53,270 --> 00:05:51,189

you can see here it's uh it's crowded

95

00:05:55,670 --> 00:05:53,280

like everything else

96

00:05:58,309 --> 00:05:55,680

these uh resupply flights as they call

97

00:06:02,469 --> 00:06:00,309

are very uh

98

00:06:04,230 --> 00:06:02,479

disturbing is probably a good word when

99

00:06:06,309 --> 00:06:04,240

it comes to just overall station

100

00:06:07,990 --> 00:06:06,319

organization

101  
00:06:17,670 --> 00:06:08,000  
so now we're headed back in our original

102  
00:06:22,469 --> 00:06:18,830  
there's mike

103  
00:06:27,270 --> 00:06:24,870  
he's uh one of the guys who lives here

104  
00:06:31,670 --> 00:06:27,280  
so he's i guess our host

105  
00:06:35,110 --> 00:06:32,830  
did you have a

106  
00:06:36,550 --> 00:06:35,120  
flyabout actually i think i said the

107  
00:06:43,189 --> 00:06:36,560  
last one was node one that was actually

108  
00:06:46,390 --> 00:06:44,950  
and uh what i'm gonna do is pitch down

109  
00:06:48,629 --> 00:06:46,400  
here

110  
00:06:50,790 --> 00:06:48,639  
we're gonna take a look into what used

111  
00:06:53,029 --> 00:06:50,800  
to be an mplm

112  
00:06:55,830 --> 00:06:53,039  
it's now called a pmm

113  
00:06:58,390 --> 00:06:55,840

a permanent logistics module

114

00:06:59,830 --> 00:06:58,400

and i'm going to orient myself back to

115

00:07:01,110 --> 00:06:59,840

down

116

00:07:03,830 --> 00:07:01,120

and i'm going to go through here and

117

00:07:06,550 --> 00:07:03,840

show you just what

118

00:07:08,550 --> 00:07:06,560

pandemonium is

119

00:07:10,710 --> 00:07:08,560

ensues here because we're moving

120

00:07:13,670 --> 00:07:10,720

everything in

121

00:07:15,749 --> 00:07:13,680

so you can see it uh it just looks like

122

00:07:17,830 --> 00:07:15,759

a wreck but it'll look a little bit

123

00:07:20,070 --> 00:07:17,840

better before we leave

124

00:07:22,469 --> 00:07:20,080

i'd like to thank the commander of the

125

00:07:24,390 --> 00:07:22,479

international uh space station andre

126

00:07:26,629 --> 00:07:24,400

borisenko for your hospitality you've

127

00:07:28,550 --> 00:07:26,639

been absolutely fantastic to us

128

00:07:31,830 --> 00:07:28,560

you and your crew have uh have

129

00:07:33,830 --> 00:07:31,840

demonstrated not only uh iss hospitality

130

00:07:35,749 --> 00:07:33,840

but you've demonstrated fantastic

131

00:07:37,589 --> 00:07:35,759

russian hospitality it's been wonderful

132

00:07:39,830 --> 00:07:37,599

to be here with you you have a wonderful

133

00:07:42,070 --> 00:07:39,840

home you're taking fantastic care of it

134

00:07:43,909 --> 00:07:42,080

and uh you are you're going to keep it

135

00:07:48,869 --> 00:07:43,919

looking good for generations of space

136

00:07:53,430 --> 00:07:52,390

we have good together and

137

00:07:54,869 --> 00:07:53,440

i would

138

00:08:05,189 --> 00:07:54,879

say you

139

00:08:09,990 --> 00:08:07,670

hey just a few words uh overall on the

140

00:08:12,230 --> 00:08:10,000

uh the mission itself uh you know this

141

00:08:14,150 --> 00:08:12,240

is a little bit of a unique mission uh

142

00:08:15,510 --> 00:08:14,160

for a couple different different reasons

143

00:08:17,670 --> 00:08:15,520

first of all we had uh kind of an

144

00:08:19,510 --> 00:08:17,680

abbreviated crew we had four shuttle

145

00:08:20,629 --> 00:08:19,520

crew coming up joining six space station

146

00:08:22,790 --> 00:08:20,639

crew

147

00:08:25,189 --> 00:08:22,800

i think in this particular instance it

148

00:08:26,629 --> 00:08:25,199

forces all to work as a as a

149

00:08:28,469 --> 00:08:26,639

very tight

150

00:08:29,510 --> 00:08:28,479

team from the very beginning we had a

151

00:08:32,310 --> 00:08:29,520

lot of hope from our station

152

00:08:37,190 --> 00:08:35,190

sasha and andre sergey

153

00:08:39,350 --> 00:08:37,200

the very first day that we were adopted

154

00:08:40,870 --> 00:08:39,360

they showed up in the mplm

155

00:08:43,190 --> 00:08:40,880

it put me to work

156

00:08:45,590 --> 00:08:43,200

they were absolutely wonderful they were

157

00:08:49,269 --> 00:08:45,600

great sports and took care of actually

158

00:08:52,630 --> 00:08:49,279

stowing an awful lot of our cargo for us

159

00:08:54,389 --> 00:08:52,640

we we emptied the mplm finally today and

160

00:08:56,470 --> 00:08:54,399

just a short while ago

161

00:08:57,829 --> 00:08:56,480

put it back in the shuttle's payload bay

162

00:08:59,509 --> 00:08:57,839

hopefully with everything that should be

163

00:09:00,870 --> 00:08:59,519

on there and if not what's remaining is

164

00:09:02,710 --> 00:09:00,880

going to go through this hatch in just a

165

00:09:05,190 --> 00:09:02,720

moment but

166

00:09:07,110 --> 00:09:05,200

to the expedition 28 crew again thank

167

00:09:10,550 --> 00:09:07,120

you very much for your hospitality on

168

00:09:13,110 --> 00:09:10,560

behalf of the 135 crew

169

00:09:14,470 --> 00:09:13,120

well thanks fergie it's been an honor uh

170

00:09:16,389 --> 00:09:14,480

having you guys on board it's been great

171

00:09:17,750 --> 00:09:16,399

having you guys on board

172

00:09:20,949 --> 00:09:17,760

it's great being a part of this really

173

00:09:22,790 --> 00:09:20,959

important and historic mission and

174

00:09:25,750 --> 00:09:22,800

we want to just thank you guys so much

175

00:09:27,750 --> 00:09:25,760

for leaving the space station uh

176

00:09:29,350 --> 00:09:27,760

in a posture for for continued

177

00:09:31,350 --> 00:09:29,360

utilization continued use for the rest

178

00:09:33,990 --> 00:09:31,360

of the decade it's been it's been really

179

00:09:36,230 --> 00:09:34,000

great and uh you know i'd like to thank

180

00:09:38,710 --> 00:09:36,240

doug for all your work on the transfer

181

00:09:41,110 --> 00:09:38,720

and robotics it was just amazing and uh

182

00:09:42,949 --> 00:09:41,120

where's rex rex thank you for for all

183

00:09:45,829 --> 00:09:42,959

your your leadership and your dedication

184

00:09:48,150 --> 00:09:45,839

to hard work on the uh spacewalk you and

185

00:09:49,590 --> 00:09:48,160

the eva team on the ground really made

186

00:09:51,110 --> 00:09:49,600

that a big success

187

00:09:52,870 --> 00:09:51,120

and fergie thank you for your leadership

188

00:09:54,550 --> 00:09:52,880

thank you for bringing the guys here but

189

00:09:56,310 --> 00:09:54,560

of all your many many accomplishments

190

00:09:58,070 --> 00:09:56,320

that you did on this mission

191

00:09:59,990 --> 00:09:58,080

for us from our perspective the most

192

00:10:04,310 --> 00:10:00,000

important thing you did was bring sandy

193

00:10:08,870 --> 00:10:07,110

sandy we cannot thank you enough for

194

00:10:10,310 --> 00:10:08,880

always keeping the big picture in mind

195

00:10:12,790 --> 00:10:10,320

always keeping what life is going to be

196

00:10:14,870 --> 00:10:12,800

like after you guys leave uh

197

00:10:16,870 --> 00:10:14,880

you were just absolutely amazing we just

198

00:10:19,110 --> 00:10:16,880

cannot thank you enough for everything

199

00:10:20,630 --> 00:10:19,120

that you've done for us and you know we

200

00:10:22,150 --> 00:10:20,640

don't even realize it yet but in a

201  
00:10:24,470 --> 00:10:22,160  
couple of weeks we're going to be going

202  
00:10:26,470 --> 00:10:24,480  
wow i'm glad sandy was here and we tried

203  
00:10:29,030 --> 00:10:26,480  
to trade mike for sandy but fergie

204  
00:10:30,230 --> 00:10:29,040  
wouldn't take us up

205  
00:10:32,150 --> 00:10:30,240  
but

206  
00:10:34,790 --> 00:10:32,160  
frankie thank you and your crew so much

207  
00:10:36,630 --> 00:10:34,800  
um like i said uh it's you're really

208  
00:10:39,030 --> 00:10:36,640  
left in a good position so on behalf of

209  
00:10:41,030 --> 00:10:39,040  
the expedition 28 crew the entire iss

210  
00:10:43,910 --> 00:10:41,040  
program we'd like to thank you your crew

211  
00:10:45,910 --> 00:10:43,920  
and the entire sts-135 team for leaving

212  
00:10:47,269 --> 00:10:45,920  
the station ready to go for the rest of

213  
00:10:48,790 --> 00:10:47,279

the decade so thank you very much all

214

00:10:51,269 --> 00:10:48,800

right it's our honor

215

00:10:55,750 --> 00:10:52,710

congratulations

216

00:10:55,760 --> 00:10:58,310

thank you

217

00:10:58,320 --> 00:11:09,590

that was

218

00:11:17,910 --> 00:11:12,069

good luck to you michael hey man all

219

00:11:17,920 --> 00:11:22,990

yes i will have a safe