



1
00:01:37,599 --> 00:00:03,980
I am Roberto Vittori of the sts-134 crew

2
00:01:45,440 --> 00:01:40,219
good morning endeavor and a special good

3
00:01:47,600 --> 00:01:45,450
morning to you today drew a good morning

4
00:01:50,389 --> 00:01:47,610
Shanna good morning Houston good morning

5
00:01:52,999 --> 00:01:50,399
to my beautiful family and thanks for

6
00:01:54,620 --> 00:01:53,009
that fantastic song by the great

7
00:01:57,740 --> 00:01:54,630
canadian rock band The Tragically Hip

8
00:01:59,240 --> 00:01:57,750
great friends of ours and I'm happy that

9
00:02:02,419 --> 00:01:59,250
my wife and kids were able to share that

10
00:02:04,340 --> 00:02:02,429
with me I know they tried last time and

11
00:02:06,289 --> 00:02:04,350
we weren't able to get it up but it's

12
00:02:08,870 --> 00:02:06,299
really great to hear that music and it

13
00:02:11,180 --> 00:02:08,880

reminds me of all my my friends and

14
00:02:13,520 --> 00:02:11,190
especially my family back home and happy

15
00:02:15,110 --> 00:02:13,530
that I have the ability to actually give

16
00:02:16,789 --> 00:02:15,120
him a call and think about of my each

17
00:02:18,110 --> 00:02:16,799
and every day while up here so thanks

18
00:02:20,030 --> 00:02:18,120
everybody for sharing this wonderful

19
00:02:22,610 --> 00:02:20,040
experience with us and we look forward

20
00:02:28,130 --> 00:02:22,620
to many more happy in special days up

21
00:02:29,930 --> 00:02:28,140
here it's been thanks this is Mission

22
00:02:31,970 --> 00:02:29,940
Control Houston with that now you've

23
00:02:35,210 --> 00:02:31,980
heard the Endeavour crew now awakened

24
00:02:36,710 --> 00:02:35,220
that song was for drew Feustel played at

25
00:02:39,319 --> 00:02:36,720
the request of his family that song

26

00:02:43,849 --> 00:02:39,329

entitled in view by the band tragically

27

00:02:45,710 --> 00:02:43,859

hip the crew will now have some personal

28

00:02:46,940 --> 00:02:45,720

time for hygiene and breakfast before

29

00:02:48,349 --> 00:02:46,950

they start on their activities of the

30

00:02:50,690 --> 00:02:48,359

day which will primarily focus on

31

00:02:52,819 --> 00:02:50,700

robotics as well as a focused inspection

32

00:02:55,309 --> 00:02:52,829

of a small area on the shuttles

33

00:03:02,509 --> 00:02:55,319

underside as well as preparations for

34

00:03:06,240 --> 00:03:04,140

and this be

35

00:03:09,800 --> 00:03:06,250

showing the position of the station's

36

00:03:17,130 --> 00:03:09,810

robotic arm it's in a pre grapple

37

00:03:22,710 --> 00:03:17,140

position the restraint latches have been

38

00:03:25,440 --> 00:03:22,720

released on the orbiter boom sensor

39

00:03:28,740 --> 00:03:25,450

system once those now that that's

40

00:03:35,750 --> 00:03:28,750

confirmed the station's robotic arm

41

00:03:41,430 --> 00:03:35,760

which is being operated this morning by

42

00:03:45,089 --> 00:03:41,440

Roberto Vittori and drew Feustel it will

43

00:03:48,030 --> 00:03:45,099

slowly lift that OB SSO orbiter boom

44

00:03:51,179 --> 00:03:48,040

sensor system off of the right sill of

45

00:03:54,300 --> 00:03:51,189

endeavours payload Bay and reposition it

46

00:04:00,000 --> 00:03:54,310

for the grapple by the shuttles robot

47

00:04:01,860 --> 00:04:00,010

arm for the handoff the because of where

48

00:04:03,660 --> 00:04:01,870

the shuttle is docked to the

49

00:04:06,319 --> 00:04:03,670

International Space Station the shuttles

50

00:04:09,360 --> 00:04:06,329

robot arm cannot reach across and

51
00:04:15,300 --> 00:04:09,370
capture the grapple pin at the end of

52
00:04:18,319 --> 00:04:15,310
the boom and thus the reason for the use

53
00:04:46,890 --> 00:04:18,329
of the station's arm to assist with that

54
00:04:52,260 --> 00:04:49,920
and on the big blue p.s srms in the ods

55
00:05:11,879 --> 00:04:52,270
s hand off of Oregon you go over as

56
00:05:17,719 --> 00:05:14,670
now that the shuttle arm has a firm grip

57
00:05:20,999 --> 00:05:17,729
on the OB SS the station arm has now

58
00:05:25,920 --> 00:05:21,009
released the grapple pin for quick

59
00:06:36,689 --> 00:05:25,930
stowage coming that's at the midpoint of

60
00:06:43,059 --> 00:06:40,270
this provides a really good view of

61
00:06:45,219 --> 00:06:43,069
where the shuttle's robotic arm is in

62
00:06:47,230 --> 00:06:45,229
relation to the left wing it's

63
00:06:50,080 --> 00:06:47,240

stretching down over the left side of

64

00:06:52,779 --> 00:06:50,090

the orbiter and then the the boom is

65

00:06:58,920 --> 00:06:52,789

back underneath pointed back underneath

66

00:07:02,170 --> 00:06:58,930

the the left wing of the vehicle and

67

00:07:04,450 --> 00:07:02,180

with that orbiter boom sensor system on

68

00:07:06,189 --> 00:07:04,460

the end of the robot arm it's looking

69

00:07:09,279 --> 00:07:06,199

all the way across the underside of the

70

00:07:11,920 --> 00:07:09,289

vehicle over toward the right side it

71

00:07:15,219 --> 00:07:11,930

actually will be positioned with the tip

72

00:07:19,629 --> 00:07:15,229

or the sensor package with the laser

73

00:07:27,360 --> 00:07:19,639

camera system pointed about 7 feet or so

74

00:07:30,879 --> 00:07:27,370

away from the area of interest we've got

75

00:07:32,680 --> 00:07:30,889

four point eight and minus 53.6 we got

76

00:07:38,320 --> 00:07:32,690

the damage in the middle of the beauty

77

00:07:39,670 --> 00:07:38,330

like of you checking and endeavour

78

00:07:41,290 --> 00:07:39,680

Houston air-to-ground too while we're

79

00:07:49,839 --> 00:07:41,300

checking for the view can you get brakes

80

00:07:51,610 --> 00:07:49,849

on for us please wake up endeavour

81

00:07:53,469 --> 00:07:51,620

Houston air-to-ground to a quick note

82

00:07:55,959 --> 00:07:53,479

about your camera alpha we are seeing

83

00:07:58,029 --> 00:07:55,969

that heat up it should give you an

84

00:07:59,680 --> 00:07:58,039

indication on the screen if it reaches a

85

00:08:01,120 --> 00:07:59,690

level that's problematic just wanted to

86

00:08:07,439 --> 00:08:01,130

let you know if you're not using it you

87

00:08:17,050 --> 00:08:13,480

okay copy you like the view and this is

88

00:08:19,689 --> 00:08:17,060

the view of the damaged area that the

89

00:08:22,779 --> 00:08:19,699

tile that crosses essentially over a

90

00:08:26,439 --> 00:08:22,789

couple of tiles this area is between the

91

00:08:29,350 --> 00:08:26,449

right main landing gear door and the

92

00:08:34,620 --> 00:08:29,360

external tank door on the starboard side

93

00:08:36,819 --> 00:08:34,630

of the right side and again the

94

00:08:38,920 --> 00:08:36,829

characterization that the damage

95

00:08:42,459 --> 00:08:38,930

assessment team is looking for is the

96

00:08:45,699 --> 00:08:42,469

the actual depth of this the imagery

97

00:08:47,560 --> 00:08:45,709

that was obtained on endeavours approach

98

00:08:49,500 --> 00:08:47,570

to the International Space Station was

99

00:08:54,060 --> 00:08:49,510

not able to give them

100

00:08:58,510 --> 00:08:54,070

enough data imagery data to provide a

101
00:09:01,780 --> 00:08:58,520
three-dimensional coverage and that led

102
00:09:26,310 --> 00:09:01,790
to the decision to request a focused

103
00:09:32,829 --> 00:09:30,220
and endeavour we would like the AE box

104
00:09:51,570 --> 00:09:32,839
slightly smaller to just encompass the

105
00:09:56,640 --> 00:09:54,180
actual still images the crews adjusting

106
00:09:58,260 --> 00:09:56,650
the box around that that will provide

107
00:10:01,590 --> 00:09:58,270
the highest fidelity so they're

108
00:10:04,860 --> 00:10:01,600
adjusting based on the damage assessment

109
00:10:07,200 --> 00:10:04,870
teams input as to how small that box

110
00:10:10,020 --> 00:10:07,210
would be it's essentially cropping the

111
00:10:19,550 --> 00:10:10,030
image down to the actual size of the

112
00:10:25,590 --> 00:10:21,930
Roberto our request now is for you to

113
00:10:28,350 --> 00:10:25,600

bring the box to just inside the damaged

114

00:10:30,240 --> 00:10:28,360

area and if possible if you can send mid

115

00:10:34,580 --> 00:10:30,250

deck to downlink that will speed up our

116

00:10:48,110 --> 00:10:43,230

endeavour Houston we like the view okay

117

00:11:00,180 --> 00:10:58,800

we concur so with the view everybody

118

00:11:05,910 --> 00:11:00,190

agreeing that they liked the view

119

00:11:08,400 --> 00:11:05,920

through the camera the focus inspection

120

00:11:12,200 --> 00:11:08,410

officially could be considered beginning

121

00:11:14,820 --> 00:11:12,210

at 34 minutes after the hour the

122

00:11:21,930 --> 00:11:14,830

positioning of it began about 25 after

123

00:11:24,390 --> 00:11:21,940

the hour this closing in the black box

124

00:11:27,270 --> 00:11:24,400

around that damaged site will give them

125

00:11:29,840 --> 00:11:27,280

the highest fidelity that they can get

126

00:11:33,870 --> 00:11:29,850

for the damage assessment team to

127

00:11:38,540 --> 00:11:33,880

produce a three-dimensional image which

128

00:11:41,220 --> 00:11:38,550

will allow them to very accurately

129

00:11:44,040 --> 00:11:41,230

determine the depth of the damage of

130

00:11:48,180 --> 00:11:44,050

that particular tile area bathing we

131

00:11:50,400 --> 00:11:48,190

select scandal road here Lewis with in

132

00:11:52,329 --> 00:11:50,410

size and position leaving box is

133

00:11:54,340 --> 00:11:52,339

required visit

134

00:11:56,980 --> 00:11:54,350

we find a second mcc for the bill

135

00:12:02,230 --> 00:11:56,990

remember we have immediately connected

136

00:12:05,019 --> 00:12:02,240

an eye to eye res I got that okay to do

137

00:12:07,420 --> 00:12:05,029

the post idiot there were no promise you

138

00:12:12,040 --> 00:12:07,430

sure that's the case TMG that's what

139

00:12:15,939 --> 00:12:12,050

stops in another case call it at 40 10

140

00:12:19,170 --> 00:12:15,949

sounds good and so at 40 40 I would it

141

00:12:22,660 --> 00:12:19,180

stops it okay there are five different

142

00:12:26,170 --> 00:12:22,670

scan locations and this is the second of

143

00:12:30,749 --> 00:12:26,180

those five again the different angles

144

00:12:33,900 --> 00:12:30,759

will allow the damage assessment team to

145

00:12:38,199 --> 00:12:33,910

provide a very detailed

146

00:12:42,040 --> 00:12:38,209

three-dimensional image after gathering

147

00:12:44,230 --> 00:12:42,050

all of this data on the ground Euston

148

00:12:47,499 --> 00:12:44,240

station are spaced allowed to we are

149

00:12:49,360 --> 00:12:47,509

ready for the event ISA and Ozzy this is

150

00:12:51,790 --> 00:12:49,370

Houston please call station for a voice

151

00:12:54,100 --> 00:12:51,800

check this is tomas fighter calling from

152

00:12:58,629 --> 00:12:54,110

the vicuna home in the Vatican how can

153

00:13:01,749 --> 00:12:58,639

you read me this is International Space

154

00:13:03,790 --> 00:13:01,759

Station worried you loud and clear guys

155

00:13:05,710 --> 00:13:03,800

it's excellent to see you we are here in

156

00:13:09,639 --> 00:13:05,720

the Vatican together with his holiness

157

00:13:11,939 --> 00:13:09,649

ops Benedict the 16th we are very great

158

00:13:15,549 --> 00:13:11,949

to see you and I hand over now to the

159

00:13:19,059 --> 00:13:15,559

head of the Italian space agency mr. so

160

00:13:21,790 --> 00:13:19,069

jeiza thank you International Space

161

00:13:24,999 --> 00:13:21,800

Station good morning this is enrico so

162

00:13:27,639 --> 00:13:25,009

jeiza from Roma Vatican we are in the

163

00:13:31,059 --> 00:13:27,649

presence of His Holiness Pope Benedict

164

00:13:35,079 --> 00:13:31,069

the sixteenth and with me it is also the

165

00:13:38,019 --> 00:13:35,089

air space commander space a chief of

166

00:13:41,110 --> 00:13:38,029

staff bernardi see Giuseppe bernardus

167

00:13:44,019 --> 00:13:41,120

and we are ready to start that these

168

00:13:47,679 --> 00:13:44,029

historical communication so on the

169

00:13:50,259 --> 00:13:47,689

behalf of you and all of our friends we

170

00:13:53,530 --> 00:13:50,269

thank the Pope of this historical

171

00:13:55,689 --> 00:13:53,540

occasion of a connection between the

172

00:13:59,619 --> 00:13:55,699

Vatican International Space Station and

173

00:14:02,710 --> 00:13:59,629

in order for him to know all of you I

174

00:14:05,380 --> 00:14:02,720

would ask the two commander if they are

175

00:14:10,960 --> 00:14:05,390

so kind to introduce the

176

00:14:14,140 --> 00:14:10,970

selves and the crew they command in the

177

00:14:16,900 --> 00:14:14,150

particular dmitry kondratyev if you can

178

00:14:19,570 --> 00:14:16,910

start with your people and then mark

179

00:14:24,030 --> 00:14:19,580

Ellie if you can start introducing your

180

00:14:25,720 --> 00:14:24,040

people over my name is Kandra if I'm

181

00:14:29,290 --> 00:14:25,730

commander of the International Space

182

00:14:33,250 --> 00:14:29,300

Station along with my crew here paolo

183

00:14:37,480 --> 00:14:33,260

nepoli Italian astronaut and Cady

184

00:14:40,480 --> 00:14:37,490

Coleman NASA astronaut and andrey

185

00:14:43,510 --> 00:14:40,490

borisenko his Russian cosmonaut a

186

00:14:47,200 --> 00:14:43,520

Russian space agency and alexander

187

00:14:54,130 --> 00:14:47,210

samokutyayev his Russian cosmonaut and

188

00:14:56,470 --> 00:14:54,140

Ron Garan NASA astronaut welcome aboard

189

00:14:59,830 --> 00:14:56,480

the space station your holiness to my

190

00:15:02,050 --> 00:14:59,840

left is Roberto Vittori he's an Italian

191

00:15:04,840 --> 00:15:02,060

astronaut on a mission for the European

192

00:15:09,190 --> 00:15:04,850

Space Agency right behind him is

193

00:15:10,420 --> 00:15:09,200

endeavours pilot Greg Johnson and Greg

194

00:15:11,710 --> 00:15:10,430

chamot off one of our mission

195

00:15:14,050 --> 00:15:11,720

specialists who just did his first

196

00:15:16,390 --> 00:15:14,060

spacewalk yesterday and then drew

197

00:15:17,890 --> 00:15:16,400

Feustel who's our lead spacewalker for

198

00:15:22,150 --> 00:15:17,900

this mission who's going to do three

199

00:15:24,520 --> 00:15:22,160

spacewalks and next to Drew is Mike Fink

200

00:15:27,250 --> 00:15:24,530

who after this mission will be the

201
00:15:29,830 --> 00:15:27,260
American with the most time in space and

202
00:15:33,130 --> 00:15:29,840
won't be a pro chin what the Russians

203
00:15:36,730 --> 00:15:33,140
have but a lot of days in space welcome

204
00:15:38,890 --> 00:15:36,740
aboard your holiness thank you very much

205
00:15:41,530 --> 00:15:38,900
for your introduction then i'll give you

206
00:15:44,620 --> 00:15:41,540
the floor to easily nessa who would like

207
00:15:47,530 --> 00:15:44,630
it to say a few words for all of us and

208
00:15:51,760 --> 00:15:47,540
maybe some question for some of you

209
00:15:53,410 --> 00:15:51,770
thank you / the astronauts and very

210
00:15:56,200 --> 00:15:53,420
happy to assist extraordinary

211
00:15:58,720 --> 00:15:56,210
opportunity to converse with you during

212
00:16:00,880 --> 00:15:58,730
your mission and especially grateful to

213
00:16:03,220 --> 00:16:00,890

be able to speak to so many of you as

214

00:16:06,340 --> 00:16:03,230

both screws are present on this pc

215

00:16:09,100 --> 00:16:06,350

tuition of this time humanity is

216

00:16:11,320 --> 00:16:09,110

experiencing a period of extremely rapid

217

00:16:14,290 --> 00:16:11,330

progress in surveys of scientific

218

00:16:17,980 --> 00:16:14,300

knowledge and technical applications in

219

00:16:20,440 --> 00:16:17,990

a sense you are our representatives

220

00:16:23,620 --> 00:16:20,450

pear heating humanities exploration of

221

00:16:27,550 --> 00:16:23,630

new spaces and possibilities for future

222

00:16:31,180 --> 00:16:27,560

comb Beyonce limitations of our everyday

223

00:16:34,000 --> 00:16:31,190

existence you'll admire your courage as

224

00:16:35,769 --> 00:16:34,010

well as a discipline and commitment this

225

00:16:38,860 --> 00:16:35,779

which you prepared yourself for this

226

00:16:41,290 --> 00:16:38,870

mission we are convinced inspired by no

227

00:16:43,870 --> 00:16:41,300

blood years and says in ten placings the

228

00:16:46,720 --> 00:16:43,880

results of research and endeavors as a

229

00:16:49,690 --> 00:16:46,730

disposal of all humanity and for the

230

00:16:52,329 --> 00:16:49,700

common good this conversation gives me a

231

00:16:55,210 --> 00:16:52,339

chance to express my own admiration and

232

00:16:57,160 --> 00:16:55,220

appreciation to you and tolls also

233

00:16:59,530 --> 00:16:57,170

collaborate in making a mission possible

234

00:17:01,480 --> 00:16:59,540

entered my heartfelt encouragement to

235

00:17:05,890 --> 00:17:01,490

bring it to a safe and successful

236

00:17:08,110 --> 00:17:05,900

conclusion but this is a conversation so

237

00:17:10,540 --> 00:17:08,120

I must not be the only one doing the

238

00:17:12,970 --> 00:17:10,550

talking and very courage to hear you

239

00:17:15,819 --> 00:17:12,980

tell me about the experiences and your

240

00:17:19,650 --> 00:17:15,829

reflections if you don't mind I would

241

00:17:23,079 --> 00:17:19,660

like to ask to ask you a few questions

242

00:17:26,260 --> 00:17:23,089

first question from the space situation

243

00:17:28,960 --> 00:17:26,270

if a very different users you fly over

244

00:17:31,840 --> 00:17:28,970

different continents and nations several

245

00:17:34,690 --> 00:17:31,850

times a day I think it must be obvious

246

00:17:37,690 --> 00:17:34,700

to you how we all live together on one

247

00:17:41,860 --> 00:17:37,700

earth and how absurd it is that we fight

248

00:17:43,960 --> 00:17:41,870

and kill each one i knows if Mark Ellis

249

00:17:47,070 --> 00:17:43,970

wife was a victim of a serious attack

250

00:17:49,960 --> 00:17:47,080

and i hope her haze continues to improve

251
00:17:53,549 --> 00:17:49,970
and you're contemplating sales from up

252
00:17:55,900 --> 00:17:53,559
there so you ever wonder about survey

253
00:17:58,780 --> 00:17:55,910
nations and people live together down

254
00:18:03,810 --> 00:17:58,790
here about how science can contribute to

255
00:18:07,840 --> 00:18:03,820
the cause of peace well thank you for

256
00:18:11,500 --> 00:18:07,850
the kind words your holiness and thank

257
00:18:14,470 --> 00:18:11,510
you for mentioning my wife Gaby it's a

258
00:18:16,690 --> 00:18:14,480
very good question we fly over most of

259
00:18:19,510 --> 00:18:16,700
the world and you don't see borders but

260
00:18:21,040 --> 00:18:19,520
at the same time we realize that that

261
00:18:22,990 --> 00:18:21,050
people fight with each other and there's

262
00:18:25,710 --> 00:18:23,000
a lot of violence in this world and its

263
00:18:27,850 --> 00:18:25,720

really an unfortunate thing usually

264

00:18:29,440 --> 00:18:27,860

people fight over many different things

265

00:18:32,050 --> 00:18:29,450

as we've seen in the Middle East right

266

00:18:34,900 --> 00:18:32,060

now it's somewhat for

267

00:18:37,750 --> 00:18:34,910

democracy in certain areas but usually

268

00:18:41,730 --> 00:18:37,760

people fight for resources and it's

269

00:18:46,060 --> 00:18:41,740

interesting in space you know on earth

270

00:18:48,670 --> 00:18:46,070

often people fight for energy in space

271

00:18:50,770 --> 00:18:48,680

we use solar power and we have fuel

272

00:18:55,120 --> 00:18:50,780

cells on the space shuttle but it's it

273

00:18:57,880 --> 00:18:55,130

on the space station it's you know the

274

00:18:59,620 --> 00:18:57,890

science and the technology that we put

275

00:19:02,080 --> 00:18:59,630

into the space station to develop a

276

00:19:04,720 --> 00:19:02,090

solar power capability gives us pretty

277

00:19:07,330 --> 00:19:04,730

much unlimited amount of energy and if

278

00:19:10,450 --> 00:19:07,340

those technologies could be adapted more

279

00:19:14,260 --> 00:19:10,460

on earth we could possibly reduce some

280

00:19:16,090 --> 00:19:14,270

of that violence the second question one

281

00:19:19,120 --> 00:19:16,100

of the teams you have returned to in my

282

00:19:21,520 --> 00:19:19,130

discourses concerns the responsibility

283

00:19:25,060 --> 00:19:21,530

we all have to us a future of our planet

284

00:19:27,400 --> 00:19:25,070

i recalls a serious risks facings

285

00:19:30,700 --> 00:19:27,410

environment and survival of future

286

00:19:33,250 --> 00:19:30,710

generations scientists tell us have to

287

00:19:35,470 --> 00:19:33,260

be careful and from an ethical point of

288

00:19:38,950 --> 00:19:35,480

view we must develop our conscience as

289

00:19:41,440 --> 00:19:38,960

well from your excellent observation

290

00:19:44,680 --> 00:19:41,450

point how do you see situation on earth

291

00:19:47,770 --> 00:19:44,690

to NC science of phenomena to which we

292

00:19:49,690 --> 00:19:47,780

need to be more attentive well your

293

00:19:50,830 --> 00:19:49,700

holiness it's it's a great honor to

294

00:19:53,140 --> 00:19:50,840

speak with you and you're right it

295

00:19:55,840 --> 00:19:53,150

really is an extraordinary vantage point

296

00:19:58,210 --> 00:19:55,850

we have up here on the one hand we could

297

00:20:00,070 --> 00:19:58,220

see how indescribably beautiful the

298

00:20:02,590 --> 00:20:00,080

planet that we have been given is but on

299

00:20:05,680 --> 00:20:02,600

the other hand we can really clearly see

300

00:20:07,780 --> 00:20:05,690

how fragile it is just the atmosphere

301
00:20:10,360 --> 00:20:07,790
for instance the atmosphere when viewed

302
00:20:12,940 --> 00:20:10,370
from space is paper-thin and to think

303
00:20:15,460 --> 00:20:12,950
that this paper thin layer is all that

304
00:20:17,200 --> 00:20:15,470
separates every living thing from the

305
00:20:19,930 --> 00:20:17,210
vacuum of space and all that protects us

306
00:20:21,970 --> 00:20:19,940
is really a sobering thought and you

307
00:20:24,430 --> 00:20:21,980
know it's it seems to us that it's it's

308
00:20:26,590 --> 00:20:24,440
just incredible to to view the earth

309
00:20:28,630 --> 00:20:26,600
hanging in the blackness of space and to

310
00:20:30,700 --> 00:20:28,640
think that you know we are all on this

311
00:20:32,440 --> 00:20:30,710
together riding through this beautiful

312
00:20:35,110 --> 00:20:32,450
fragile oasis through the universe and

313
00:20:36,910 --> 00:20:35,120

it really fills us with a lot of hope to

314

00:20:38,740 --> 00:20:36,920

think that you know all of us on board

315

00:20:41,080 --> 00:20:38,750

this incredible orbiting space station

316

00:20:43,240 --> 00:20:41,090

that was built by the many nations of

317

00:20:45,130 --> 00:20:43,250

our international partnership you know

318

00:20:45,940 --> 00:20:45,140

to accomplish this tremendous feat in

319

00:20:48,820 --> 00:20:45,950

orbit

320

00:20:51,340 --> 00:20:48,830

I think you know that just shows that by

321

00:20:52,509 --> 00:20:51,350

working together and by cooperating you

322

00:20:54,279 --> 00:20:52,519

know we could overcome many of the

323

00:20:56,560 --> 00:20:54,289

problems that face our planet we can

324

00:20:58,180 --> 00:20:56,570

solve many of the challenges that face

325

00:20:59,500 --> 00:20:58,190

the inhabitants of our planet it really

326

00:21:01,659 --> 00:20:59,510

is a wonderful place to live and work

327

00:21:06,100 --> 00:21:01,669

and it's a wonderful place to view our

328

00:21:08,289 --> 00:21:06,110

beautiful earth the third question the

329

00:21:11,110 --> 00:21:08,299

experience you are having right now is

330

00:21:13,629 --> 00:21:11,120

both extraordinary and very important

331

00:21:17,019 --> 00:21:13,639

even if you must come back down to earth

332

00:21:19,090 --> 00:21:17,029

like all the rest of us when you do

333

00:21:21,430 --> 00:21:19,100

return you will be much admired and

334

00:21:24,340 --> 00:21:21,440

treated like heroes whose peak and

335

00:21:26,980 --> 00:21:24,350

activist authority you will be asking to

336

00:21:29,379 --> 00:21:26,990

talk about their experiences what will

337

00:21:31,330 --> 00:21:29,389

be the most important messages you would

338

00:21:33,789 --> 00:21:31,340

like to convey to young people

339

00:21:36,779 --> 00:21:33,799

especially who live in a world strongly

340

00:21:40,570 --> 00:21:36,789

influenced by your experiences and

341

00:21:44,230 --> 00:21:40,580

discoveries your holiness as my

342

00:21:46,120 --> 00:21:44,240

colleagues have vindicated we can look

343

00:21:48,279 --> 00:21:46,130

down and see our beautiful planet earth

344

00:21:50,049 --> 00:21:48,289

that God has made and it is the most

345

00:21:53,590 --> 00:21:50,059

beautiful planet in the whole solar

346

00:21:55,360 --> 00:21:53,600

system however if we look up we can see

347

00:21:57,460 --> 00:21:55,370

the rest of the universe and the rest of

348

00:21:59,830 --> 00:21:57,470

the universe is out there for us to go

349

00:22:02,440 --> 00:21:59,840

explore and the International Space

350

00:22:04,600 --> 00:22:02,450

Station is just one symbol one example

351
00:22:07,779 --> 00:22:04,610
of what human beings can do when we work

352
00:22:10,360 --> 00:22:07,789
together constructively so our message I

353
00:22:12,399 --> 00:22:10,370
think one of our many messages but I

354
00:22:15,399 --> 00:22:12,409
think one of our most important messages

355
00:22:17,289 --> 00:22:15,409
is to let the children of the planet

356
00:22:19,360 --> 00:22:17,299
know the young people know that there's

357
00:22:21,370 --> 00:22:19,370
a whole universe for us to go explore

358
00:22:23,200 --> 00:22:21,380
and when we do it together there's

359
00:22:26,710 --> 00:22:23,210
nothing that we cannot accomplish our

360
00:22:29,710 --> 00:22:26,720
first question space exploration is a

361
00:22:31,480 --> 00:22:29,720
fascinating scientific adventure I know

362
00:22:34,060 --> 00:22:31,490
that you have been installing your

363
00:22:36,669 --> 00:22:34,070

treatment to further scientific research

364

00:22:39,669 --> 00:22:36,679

and the study of radiation coming from

365

00:22:41,460 --> 00:22:39,679

outer space but i think it is also an

366

00:22:43,960 --> 00:22:41,470

adventure of the human spirit of

367

00:22:46,600 --> 00:22:43,970

powerful stimulus to reflect on the

368

00:22:49,779 --> 00:22:46,610

origins and on suggesting of sooner

369

00:22:52,629 --> 00:22:49,789

girls and humanity believers often look

370

00:22:55,299 --> 00:22:52,639

up at the limitless heavens admitted

371

00:22:57,720 --> 00:22:55,309

hating on the creator of it all just

372

00:23:01,090 --> 00:22:57,730

struck by so mr. of his greatness

373

00:23:02,920 --> 00:23:01,100

satisfies a medal I gave Robert as a

374

00:23:05,650 --> 00:23:02,930

sign of my own participation in your

375

00:23:08,140 --> 00:23:05,660

mission represents the creation of man

376

00:23:10,570 --> 00:23:08,150

is painted chemical engines assistant

377

00:23:13,210 --> 00:23:10,580

chapter in the midst of your intense

378

00:23:15,820 --> 00:23:13,220

work and research to ever stop and

379

00:23:18,610 --> 00:23:15,830

reflect Lexus perhaps even to say a

380

00:23:20,980 --> 00:23:18,620

prayer to the creature or it'd be easier

381

00:23:25,120 --> 00:23:20,990

for you to think about these things once

382

00:23:26,710 --> 00:23:25,130

you have returned to us your illness to

383

00:23:29,410 --> 00:23:26,720

leave on board of the International

384

00:23:31,360 --> 00:23:29,420

Space Station to work as an astronaut on

385

00:23:35,650 --> 00:23:31,370

the shuttles the use of the station is

386

00:23:38,710 --> 00:23:35,660

extremely intense but we all have an

387

00:23:44,020 --> 00:23:38,720

opportunity when the nice cam to look

388

00:23:48,220 --> 00:23:44,030

out and more to look down on earth our

389

00:23:51,040 --> 00:23:48,230

planet the blue planet is beautiful blue

390

00:23:53,920 --> 00:23:51,050

is the color of our planet blue is the

391

00:23:55,990 --> 00:23:53,930

color of the sky blue is also the color

392

00:23:58,270 --> 00:23:56,000

of the Italian Air Force the

393

00:24:00,430 --> 00:23:58,280

organization that gave me the

394

00:24:03,030 --> 00:24:00,440

opportunity to then join the Italian

395

00:24:06,600 --> 00:24:03,040

space agency the European Space Agency

396

00:24:09,730 --> 00:24:06,610

when we have a moment to look down

397

00:24:13,270 --> 00:24:09,740

beauty is the three-dimensional effect

398

00:24:17,350 --> 00:24:13,280

of the beauty of the planet is capturing

399

00:24:22,390 --> 00:24:17,360

our ad art is capturing my art and they

400

00:24:27,430 --> 00:24:22,400

do pray i do praying for for me for our

401
00:24:32,080 --> 00:24:27,440
families for our future I took with me

402
00:24:34,230 --> 00:24:32,090
the coin and I allowed this chlorine to

403
00:24:39,520 --> 00:24:34,240
float in front of me to demonstrate

404
00:24:42,820 --> 00:24:39,530
microgravity I shall thank you very much

405
00:24:46,510 --> 00:24:42,830
for this opportunity and i would like to

406
00:24:49,330 --> 00:24:46,520
allow this coin to float to my friend

407
00:24:53,230 --> 00:24:49,340
and colleague paolo it will make return

408
00:24:56,650 --> 00:24:53,240
on earth on the Soyuz I brought it with

409
00:25:01,840 --> 00:24:56,660
me to space and will take down on earth

410
00:25:03,640 --> 00:25:01,850
to then give back to you and we are all

411
00:25:06,580 --> 00:25:03,650
divided Amanda pepper my last question

412
00:25:09,580 --> 00:25:06,590
is for Paulo dear Paulo

413
00:25:12,370 --> 00:25:09,590

I know that a few years ago a few days

414

00:25:14,380 --> 00:25:12,380

ago your mom has left you and in a few

415

00:25:17,560 --> 00:25:14,390

days you will come back home you will

416

00:25:20,649 --> 00:25:17,570

not find her waiting for you almost a DB

417

00:25:23,919 --> 00:25:20,659

genie we're all close to you me too I

418

00:25:27,820 --> 00:25:23,929

have prayed for her how have you been

419

00:25:30,820 --> 00:25:27,830

living through this time of pain on the

420

00:25:33,669 --> 00:25:30,830

International Space Station do you feel

421

00:25:36,070 --> 00:25:33,679

isolated and alone or do you feel United

422

00:25:38,799 --> 00:25:36,080

amongst ourselves give you a companion

423

00:25:44,039 --> 00:25:38,809

in a community that follows you with

424

00:25:46,930 --> 00:25:44,049

attention and affection Santo Padre

425

00:25:49,450 --> 00:25:46,940

awesome teeth the Holy Father beginner

426
00:25:52,539 --> 00:25:49,460
level I felt your prayers and everyone's

427
00:25:55,990 --> 00:25:52,549
prayers arriving up here or we were

428
00:25:58,659 --> 00:25:56,000
outside the world we orbit jewel outside

429
00:26:00,639 --> 00:25:58,669
the earth and we have a vantage point to

430
00:26:03,159 --> 00:26:00,649
look at the earth and we feel everything

431
00:26:07,570 --> 00:26:03,169
around us my colleagues on board the

432
00:26:10,269 --> 00:26:07,580
station Dimitri Katie Ron and Alexander

433
00:26:13,899 --> 00:26:10,279
and ray and and Ray were very close to

434
00:26:17,049 --> 00:26:13,909
me at this important time for me a very

435
00:26:20,409 --> 00:26:17,059
intense moment yay day as well as my

436
00:26:23,380 --> 00:26:20,419
brothers and sisters my uncles my aunt's

437
00:26:25,990 --> 00:26:23,390
mother my relatives were close to my mom

438
00:26:29,380 --> 00:26:26,000

in her last moments I'm very grateful

439

00:26:32,710 --> 00:26:29,390

for this I felt very far but also very

440

00:26:35,860 --> 00:26:32,720

close avoid and the thought of feeling

441

00:26:38,320 --> 00:26:35,870

all of you near me at this time has been

442

00:26:40,990 --> 00:26:38,330

a great a little be a legend relief I

443

00:26:42,909 --> 00:26:41,000

also want to thank the Italian and

444

00:26:46,060 --> 00:26:42,919

American space agencies that have given

445

00:26:52,899 --> 00:26:46,070

me the opportunity so that I was able to

446

00:26:59,019 --> 00:26:56,019

the astronauts thank you warmly for this

447

00:27:01,839 --> 00:26:59,029

wonderful opportunity to meet and tied

448

00:27:04,029 --> 00:27:01,849

up with you you have helped me and many

449

00:27:06,669 --> 00:27:04,039

other people to reflect to guess on

450

00:27:09,759 --> 00:27:06,679

important issues sit regards the future

451
00:27:11,799 --> 00:27:09,769
of humanity I wish you the very best for

452
00:27:14,310 --> 00:27:11,809
your work and for the success of your

453
00:27:17,259 --> 00:27:14,320
admission at the service of science

454
00:27:20,049 --> 00:27:17,269
international collaboration authentic

455
00:27:22,330 --> 00:27:20,059
progress and for peace in the world I

456
00:27:24,879 --> 00:27:22,340
will continue to follow you in my

457
00:27:31,019 --> 00:27:24,889
thoughts and prayers and I've eating

458
00:27:34,049 --> 00:27:31,029
impart my apostolic blessing and we all

459
00:27:37,719 --> 00:27:34,059
would like to thank you your wholeness