



1  
00:00:11,679 --> 00:00:48,069  
um

2  
00:00:48,079 --> 00:01:28,310  
foreign

3  
00:01:28,320 --> 00:01:45,429  
is

4  
00:02:22,470 --> 00:02:08,710  
oh

5  
00:02:22,480 --> 00:02:38,869  
russo

6  
00:02:38,879 --> 00:02:58,869  
is

7  
00:02:58,879 --> 00:03:31,270  
oh

8  
00:03:31,280 --> 00:03:54,070  
i don't think that one

9  
00:03:54,080 --> 00:04:29,749  
hmm

10  
00:04:29,759 --> 00:04:50,710  
they can't decide

11  
00:05:07,909 --> 00:04:52,150  
all right let's make sure the backups

12  
00:05:07,919 --> 00:05:14,950  
it is

13  
00:05:39,990 --> 00:05:17,830

so in english and what's happening now

14

00:05:40,000 --> 00:06:00,710

foreign

15

00:06:32,830 --> 00:06:18,830

is

16

00:06:32,840 --> 00:06:59,670

uh oh

17

00:06:59,680 --> 00:07:15,830

is

18

00:07:15,840 --> 00:07:56,390

hmm

19

00:08:18,230 --> 00:07:57,510

he

20

00:08:18,240 --> 00:09:02,389

um

21

00:10:30,790 --> 00:09:34,829

foreign

22

00:10:30,800 --> 00:10:53,990

my

23

00:10:54,000 --> 00:11:07,190

foreign

24

00:11:07,200 --> 00:11:17,670

let's see now

25

00:11:17,680 --> 00:11:53,110

oh

26

00:11:53,120 --> 00:12:06,790

me

27

00:12:06,800 --> 00:12:14,310

look back

28

00:12:14,320 --> 00:12:37,110

thank you

29

00:12:37,120 --> 00:13:03,750

okay

30

00:13:07,829 --> 00:13:06,069

t minus 45 seconds the ground umbilical

31

00:13:13,670 --> 00:13:07,839

to the third straight stage has been

32

00:13:18,470 --> 00:13:15,829

the launch command will be issued at t

33

00:13:29,190 --> 00:13:18,480

minus 19 seconds it's about 10 seconds

34

00:13:34,629 --> 00:13:31,670

t-minus 15 seconds the second umbilical

35

00:13:36,790 --> 00:13:34,639

tower is now separating

36

00:13:37,750 --> 00:13:36,800

10 seconds 9

37

00:13:38,870 --> 00:13:37,760

8

38

00:13:39,829 --> 00:13:38,880

7

39

00:13:40,870 --> 00:13:39,839

6

40

00:13:41,829 --> 00:13:40,880

5

41

00:13:42,870 --> 00:13:41,839

4

42

00:13:43,829 --> 00:13:42,880

3

43

00:13:44,790 --> 00:13:43,839

2

44

00:13:45,829 --> 00:13:44,800

1

45

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

0

46

00:13:50,470 --> 00:13:47,519

and lift off

47

00:13:52,790 --> 00:13:50,480

liftoff of karen nyberg fyodor yoshikin

48

00:14:58,790 --> 00:13:52,800

and luca parmitano on a six-hour ride to

49

00:14:58,800 --> 00:15:15,750

huh

50

00:19:05,430 --> 00:19:01,909

so

51  
00:19:07,909 --> 00:19:05,440  
administrator for human exploration and

52  
00:19:10,070 --> 00:19:07,919  
operations bill as they say

53  
00:19:11,830 --> 00:19:10,080  
if that doesn't get your blood flowing

54  
00:19:13,510 --> 00:19:11,840  
uh you don't understand human space

55  
00:19:14,710 --> 00:19:13,520  
flight your reaction to this morning's

56  
00:19:17,430 --> 00:19:14,720  
launch

57  
00:19:19,350 --> 00:19:17,440  
again just absolutely amazing to to see

58  
00:19:21,029 --> 00:19:19,360  
the rocket launch

59  
00:19:23,270 --> 00:19:21,039  
it was even special today we got to see

60  
00:19:25,430 --> 00:19:23,280  
space station fly overhead just a couple

61  
00:19:27,909 --> 00:19:25,440  
minutes before launch so to see the

62  
00:19:29,750 --> 00:19:27,919  
space station moving downrange and then

63  
00:19:31,830 --> 00:19:29,760

four minutes later to see the soyuz lift

64

00:19:34,070 --> 00:19:31,840

off the launch pad chasing that little

65

00:19:36,230 --> 00:19:34,080

star with the crew on board was just

66

00:19:37,909 --> 00:19:36,240

absolutely amazing today so to see

67

00:19:40,630 --> 00:19:37,919

orbital mechanics and work and actually

68

00:19:42,789 --> 00:19:40,640

to get here in baikonur and see that it

69

00:19:45,350 --> 00:19:42,799

was just a special event today so it was

70

00:19:47,510 --> 00:19:45,360

just a tremendous launch everyone is

71

00:19:49,270 --> 00:19:47,520

unique everyone is different

72

00:19:51,590 --> 00:19:49,280

each one i see different things that i

73

00:19:53,669 --> 00:19:51,600

never saw before and and again just was

74

00:19:55,430 --> 00:19:53,679

just phenomenal the teams here did a

75

00:19:57,190 --> 00:19:55,440

tremendous job getting ready getting the

76

00:19:59,590 --> 00:19:57,200

rocket ready the preparation at the

77

00:20:01,270 --> 00:19:59,600

launch pad was absolutely outstanding

78

00:20:03,350 --> 00:20:01,280

the weather was good today and just a

79

00:20:05,190 --> 00:20:03,360

just a super super launch i'm looking

80

00:20:08,390 --> 00:20:05,200

forward to this expedition

81

00:20:10,310 --> 00:20:08,400

many activities coming up evas dockings

82

00:20:12,310 --> 00:20:10,320

all kinds of things during this this

83

00:20:14,549 --> 00:20:12,320

increment so it will be exciting and it

84

00:20:16,630 --> 00:20:14,559

would say what great start this morning

85

00:20:18,549 --> 00:20:16,640

we can't help but be impressed

86

00:20:20,230 --> 00:20:18,559

about the choreography of how these

87

00:20:22,470 --> 00:20:20,240

launches fold together to make the

88

00:20:24,230 --> 00:20:22,480

station happen and perpetuate it and

89

00:20:26,870 --> 00:20:24,240

this expedition as you mentioned is

90

00:20:28,789 --> 00:20:26,880

truly a handbook of human space flight

91

00:20:31,350 --> 00:20:28,799

yeah it's pretty exciting you know next

92

00:20:33,029 --> 00:20:31,360

week we'll see the atv launch from peru

93

00:20:35,110 --> 00:20:33,039

and i was talking to our european

94

00:20:36,630 --> 00:20:35,120

colleagues and and they're all ready to

95

00:20:38,149 --> 00:20:36,640

get ready to go to kuru and get that

96

00:20:40,549 --> 00:20:38,159

launch vehicle ready we're talking to

97

00:20:42,470 --> 00:20:40,559

the japanese about the htv launch coming

98

00:20:44,950 --> 00:20:42,480

later in the summer we're working with

99

00:20:46,710 --> 00:20:44,960

orbital at the wallops flight facility

100

00:20:49,110 --> 00:20:46,720

getting that rocket and then cygnus

101  
00:20:51,430 --> 00:20:49,120  
vehicle prepared so just a tremendous

102  
00:20:54,310 --> 00:20:51,440  
amount of work heading forward

103  
00:20:56,149 --> 00:20:54,320  
bill speaking of the expedition uh

104  
00:20:58,470 --> 00:20:56,159  
it is truly a handbook of human

105  
00:20:59,750 --> 00:20:58,480  
spaceflight almost a daunting challenge

106  
00:21:01,190 --> 00:20:59,760  
for these three crew members for the

107  
00:21:03,270 --> 00:21:01,200  
next six months

108  
00:21:05,270 --> 00:21:03,280  
your thoughts on how all of this is

109  
00:21:07,110 --> 00:21:05,280  
going to unfold to continue to

110  
00:21:08,630 --> 00:21:07,120  
perpetuate the space station

111  
00:21:10,230 --> 00:21:08,640  
again the teams have done a tremendous

112  
00:21:12,470 --> 00:21:10,240  
job of getting things prepared and

113  
00:21:14,549 --> 00:21:12,480

getting ready um the atv launch coming

114

00:21:16,470 --> 00:21:14,559

up is is pretty exciting and we've got

115

00:21:18,549 --> 00:21:16,480

the htv launch we've got

116

00:21:19,430 --> 00:21:18,559

orbital flight coming up potentially

117

00:21:21,430 --> 00:21:19,440

later

118

00:21:23,270 --> 00:21:21,440

and the evas coming up this summer just

119

00:21:24,789 --> 00:21:23,280

a tremendous amount of work by the teams

120

00:21:26,549 --> 00:21:24,799

getting prepared for any kind of

121

00:21:28,710 --> 00:21:26,559

contingency any kind of planning and

122

00:21:30,630 --> 00:21:28,720

that's what's remarkable to me is

123

00:21:32,870 --> 00:21:30,640

they take this complex ballet of

124

00:21:34,549 --> 00:21:32,880

vehicles and work and the teams in

125

00:21:36,870 --> 00:21:34,559

houston along with their team friends in

126  
00:21:38,230 --> 00:21:36,880  
moscow and in europe and in japan they

127  
00:21:40,549 --> 00:21:38,240  
figure out a way to put all this

128  
00:21:42,549 --> 00:21:40,559  
together to just make this look easy

129  
00:21:44,230 --> 00:21:42,559  
make it look smooth and still get a

130  
00:21:46,149 --> 00:21:44,240  
bunch of research and science done on

131  
00:21:47,830 --> 00:21:46,159  
board station at the same time so i

132  
00:21:49,750 --> 00:21:47,840  
can't say enough about the teams that do

133  
00:21:51,830 --> 00:21:49,760  
that preparation they make it look easy

134  
00:21:53,990 --> 00:21:51,840  
but it doesn't occur easily it comes

135  
00:21:56,789 --> 00:21:54,000  
just through hard work and preparation

136  
00:21:58,390 --> 00:21:56,799  
and then those teams get to celebrate

137  
00:21:59,830 --> 00:21:58,400  
those results and get to see the

138  
00:22:01,430 --> 00:21:59,840

excitement of their hard work coming

139

00:22:03,430 --> 00:22:01,440

together and i think that's what we got

140

00:22:05,110 --> 00:22:03,440

to see today we got to see the russian

141

00:22:06,390 --> 00:22:05,120

team prepare this vehicle and to see

142

00:22:08,149 --> 00:22:06,400

this launch

143

00:22:09,990 --> 00:22:08,159

you can't help but get excited when you

144

00:22:11,750 --> 00:22:10,000

share the joy you see the joy in their

145

00:22:13,830 --> 00:22:11,760

eyes of what this wonderful vehicle has

146

00:22:15,750 --> 00:22:13,840

done to see the appendages come out and

147

00:22:17,990 --> 00:22:15,760

see it headed towards a four orbit

148

00:22:31,430 --> 00:22:18,000

rendezvous with iss just a tremendous

149

00:22:35,909 --> 00:22:33,190

mike stefardini international space

150

00:22:37,350 --> 00:22:35,919

station program manager mike another

151  
00:22:39,110 --> 00:22:37,360  
morning in which the ground shook here

152  
00:22:40,710 --> 00:22:39,120  
in baikonur sending

153  
00:22:42,390 --> 00:22:40,720  
three more crew members toward the

154  
00:22:43,990 --> 00:22:42,400  
international space station your

155  
00:22:46,149 --> 00:22:44,000  
reaction to the launch and your thoughts

156  
00:22:47,830 --> 00:22:46,159  
about this climb to orbit today

157  
00:22:49,750 --> 00:22:47,840  
well you can't help but be emotional

158  
00:22:51,590 --> 00:22:49,760  
when uh when you can feel the launch in

159  
00:22:53,029 --> 00:22:51,600  
your body and when the environment's

160  
00:22:55,350 --> 00:22:53,039  
just right

161  
00:22:57,909 --> 00:22:55,360  
the sound waves and the vibrations and

162  
00:23:00,070 --> 00:22:57,919  
everything really envelop you and uh and

163  
00:23:01,669 --> 00:23:00,080

this was one of those days so

164

00:23:04,230 --> 00:23:01,679

not only is it a

165

00:23:06,070 --> 00:23:04,240

an outstanding flight to have a russian

166

00:23:07,029 --> 00:23:06,080

an american and a european all flying

167

00:23:09,830 --> 00:23:07,039

together

168

00:23:11,909 --> 00:23:09,840

up the station to meet their their three

169

00:23:13,270 --> 00:23:11,919

crewmates on orbit but they're heading

170

00:23:15,190 --> 00:23:13,280

towards a really

171

00:23:17,510 --> 00:23:15,200

exciting increment a very busy increment

172

00:23:19,430 --> 00:23:17,520

as we prepare for the for the last of

173

00:23:21,029 --> 00:23:19,440

the major laboratories

174

00:23:22,710 --> 00:23:21,039

which will help fulfill the dream that

175

00:23:24,870 --> 00:23:22,720

we've always

176

00:23:26,549 --> 00:23:24,880

imagined for iss to be a full-up

177

00:23:28,310 --> 00:23:26,559

research facility

178

00:23:29,990 --> 00:23:28,320

not just a full schedule it appears to

179

00:23:31,669 --> 00:23:30,000

be almost a daunting schedule half a

180

00:23:33,430 --> 00:23:31,679

dozen spacewalks over the next six

181

00:23:34,230 --> 00:23:33,440

months by russian and

182

00:23:36,310 --> 00:23:34,240

u.s

183

00:23:37,830 --> 00:23:36,320

segment crew members and all of the

184

00:23:39,750 --> 00:23:37,840

scientific research and almost every

185

00:23:42,310 --> 00:23:39,760

visiting vehicle that you have in your

186

00:23:44,630 --> 00:23:42,320

fleet uh how is this going to unfold as

187

00:23:46,630 --> 00:23:44,640

the next half year rolls around well i

188

00:23:47,990 --> 00:23:46,640

think you said it it's uh it's a big big

189

00:23:50,310 --> 00:23:48,000

challenge it's been a while since we

190

00:23:51,669 --> 00:23:50,320

have this much activity not only that of

191

00:23:53,750 --> 00:23:51,679

course we're going to have the new

192

00:23:56,070 --> 00:23:53,760

orbital cygnus vehicle as planned to

193

00:23:57,590 --> 00:23:56,080

come up during this period

194

00:23:58,950 --> 00:23:57,600

and we're in the middle as i said

195

00:24:01,350 --> 00:23:58,960

earlier of all of our preparations to

196

00:24:03,029 --> 00:24:01,360

get ready for the arrival of the

197

00:24:04,630 --> 00:24:03,039

multi-purpose laboratory module that our

198

00:24:06,789 --> 00:24:04,640

russian friends are bringing up to to

199

00:24:09,110 --> 00:24:06,799

conduct their research a laboratory i'm

200

00:24:09,909 --> 00:24:09,120

sorry a module dedicated to research and

201  
00:24:14,630 --> 00:24:09,919  
so

202  
00:24:16,070 --> 00:24:14,640  
of them going to be outside more than

203  
00:24:18,390 --> 00:24:16,080  
inside i think this time with all the

204  
00:24:19,909 --> 00:24:18,400  
eva activity we have so we'll be busy

205  
00:24:21,590 --> 00:24:19,919  
with all that and meanwhile we have a

206  
00:24:23,350 --> 00:24:21,600  
commitment for the amount of hours we'll

207  
00:24:25,269 --> 00:24:23,360  
dedicate to research we intend to honor

208  
00:24:27,110 --> 00:24:25,279  
that during this period as well so it's

209  
00:24:45,590 --> 00:24:27,120  
a be a very very challenging increment

210  
00:24:50,470 --> 00:24:47,430  
it's important for isa this type of

211  
00:24:53,430 --> 00:24:50,480  
event oh yes first it's a great moment

212  
00:24:55,350 --> 00:24:53,440  
of emotion i must say that to have

213  
00:24:56,390 --> 00:24:55,360

three persons going to space and

214

00:24:58,549 --> 00:24:56,400

especially

215

00:25:00,870 --> 00:24:58,559

one russian one american

216

00:25:02,789 --> 00:25:00,880

one european going together in space

217

00:25:04,870 --> 00:25:02,799

it's a great moment and

218

00:25:07,830 --> 00:25:04,880

but obviously it's a very it's a great

219

00:25:10,710 --> 00:25:07,840

moment for uh for isa but also for italy

220

00:25:13,110 --> 00:25:10,720

because this is a flight uh

221

00:25:14,789 --> 00:25:13,120

thanks to to the italian space agency

222

00:25:19,590 --> 00:25:14,799

but

223

00:25:21,430 --> 00:25:19,600

the most striking uh part is the fact

224

00:25:23,430 --> 00:25:21,440

that this is the first of the young

225

00:25:25,830 --> 00:25:23,440

generation of astronauts so we are

226

00:25:27,830 --> 00:25:25,840

changing of generation and that is

227

00:25:28,789 --> 00:25:27,840

certainly something important for isa

228

00:25:31,029 --> 00:25:28,799

because

229

00:25:31,990 --> 00:25:31,039

we we are preparing the future with this

230

00:25:34,470 --> 00:25:32,000

new

231

00:25:36,470 --> 00:25:34,480

class of astronauts we saw young

232

00:25:37,350 --> 00:25:36,480

engineers on vega young astronauts this

233

00:25:42,070 --> 00:25:37,360

is

234

00:25:44,789 --> 00:25:42,080

the same time yes i think that

235

00:25:46,789 --> 00:25:44,799

this is the cooperation between the uh

236

00:25:49,590 --> 00:25:46,799

the experienced people

237

00:25:51,669 --> 00:25:49,600

what i am and uh and this new generation

238

00:25:54,630 --> 00:25:51,679

this is the best way i think that to

239

00:25:56,470 --> 00:25:54,640

prepare the future is to transmit our

240

00:25:58,549 --> 00:25:56,480

experience and knowledge but they will

241

00:25:59,750 --> 00:25:58,559

bring new ideas they will bring new

242

00:26:01,430 --> 00:25:59,760

things and

243

00:26:03,590 --> 00:26:01,440

i am glad to