



1
00:00:44,559 --> 00:01:19,030
yes

2
00:01:19,040 --> 00:01:39,030
okay

3
00:01:39,040 --> 00:02:19,110
next one please

4
00:02:35,030 --> 00:02:20,869
always with you

5
00:02:35,040 --> 00:03:07,350
you journey you

6
00:03:07,360 --> 00:03:32,869
yes

7
00:03:32,879 --> 00:04:22,629
uh

8
00:06:04,550 --> 00:04:55,749
is

9
00:06:04,560 --> 00:06:32,710
just leave it there

10
00:08:02,950 --> 00:07:20,390
foreign

11
00:08:02,960 --> 00:08:23,350
yes

12
00:08:23,360 --> 00:08:50,870
oh

13
00:08:50,880 --> 00:09:16,310

uh

14

00:09:22,630 --> 00:09:18,870

so these are the final minutes prior to

15

00:09:26,389 --> 00:09:24,790

the fueling operation is nearly coming

16

00:09:33,030 --> 00:09:26,399

to an end

17

00:09:36,470 --> 00:09:35,269

all the checkouts are complete we're

18

00:09:42,550 --> 00:09:36,480

feeling well

19

00:09:52,550 --> 00:09:43,990

let me wish you

20

00:10:05,110 --> 00:09:53,269

it's

21

00:10:07,509 --> 00:10:06,310

and

22

00:10:10,150 --> 00:10:07,519

then

23

00:10:14,710 --> 00:10:10,160

the immediate preparation will start

24

00:10:14,720 --> 00:10:24,550

and i'm sure everything will be fine

25

00:10:30,710 --> 00:10:26,550

everything is going well everything is

26

00:10:32,790 --> 00:10:30,720

nominal the control group are already

27

00:10:43,350 --> 00:10:32,800

at the consoles

28

00:10:49,509 --> 00:10:47,590

well i'll say a few birds afterwards

29

00:10:54,710 --> 00:10:49,519

i also try to be brief

30

00:10:59,190 --> 00:10:56,870

and i'd like to wish all the best to my

31

00:11:00,470 --> 00:10:59,200

good friend to the commander who has set

32

00:11:04,230 --> 00:11:00,480

the very same place

33

00:11:09,350 --> 00:11:06,069

and they have so much experience about

34

00:11:14,790 --> 00:11:09,360

the experience i'm sure you'll be fine

35

00:11:20,630 --> 00:11:17,670

also same to everybody all the best

36

00:11:24,069 --> 00:11:20,640

everything imaginable possible

37

00:11:36,630 --> 00:11:26,310

thank you i'm glad to see you too

38

00:11:53,350 --> 00:11:39,190

so that makes sense

39

00:11:53,360 --> 00:11:57,110

god

40

00:12:56,550 --> 00:11:59,030

it's not saying goodbye just now we'll

41

00:12:56,560 --> 00:13:21,509

okay

42

00:13:21,519 --> 00:13:36,870

thank you

43

00:13:36,880 --> 00:14:35,910

so

44

00:14:39,269 --> 00:14:37,829

t minus one minute and counting we're go

45

00:14:42,470 --> 00:14:39,279

for auto sequence start the vehicle is

46

00:14:54,949 --> 00:14:44,069

you should see the first umbilical tower

47

00:15:00,790 --> 00:14:58,150

t minus 40 seconds and counting

48

00:15:03,430 --> 00:15:00,800

vehicle to internal power separation of

49

00:15:05,350 --> 00:15:03,440

first umbilical tower from booster

50

00:15:19,590 --> 00:15:05,360

ground propellant feet terminated

51
00:15:39,350 --> 00:15:22,710
auto sequence initiated

52
00:15:43,670 --> 00:15:40,629
lift off

53
00:15:45,030 --> 00:15:43,680
liftoff of the soyuz tma-05m

54
00:15:47,749 --> 00:15:45,040
carrying sunny williams uriel

55
00:15:49,269 --> 00:15:47,759
malenchenko and aki hoshide on a two-day

56
00:16:05,110 --> 00:15:49,279
journey to the international space

57
00:16:11,590 --> 00:16:09,590
stage thrusters are operating nominally

58
00:16:14,470 --> 00:16:11,600
copy all launch control

59
00:16:16,949 --> 00:16:14,480
and we are fine

60
00:16:20,629 --> 00:16:16,959
30 seconds into the flight

61
00:16:20,639 --> 00:16:33,189
copy

62
00:16:38,069 --> 00:16:34,310
the

63
00:16:50,629 --> 00:16:38,079

engine chamber pressures are nominal

64

00:16:54,790 --> 00:16:52,629

70 seconds into the flight everything's

65

00:17:17,590 --> 00:16:54,800

nominal

66

00:17:29,150 --> 00:17:19,590

one and two

67

00:17:36,470 --> 00:17:32,470

230 seconds into the flight vehicle is

68

00:17:36,480 --> 00:17:47,470

everything's nominal on board

69

00:17:51,430 --> 00:17:49,029

250

70

00:19:15,590 --> 00:17:51,440

seconds into the flight

71

00:21:00,310 --> 00:20:12,789

so

72

00:21:03,029 --> 00:21:00,320

administrator for human exploration

73

00:21:05,110 --> 00:21:03,039

operations bill sunday morning a

74

00:21:07,029 --> 00:21:05,120

thunderous start to a new increment on

75

00:21:08,870 --> 00:21:07,039

the international space station and an

76
00:21:11,350 --> 00:21:08,880
unprecedented amount of work ahead for

77
00:21:13,190 --> 00:21:11,360
this crew your impressions of today's

78
00:21:14,149 --> 00:21:13,200
launch and what lies ahead over the next

79
00:21:16,230 --> 00:21:14,159
few weeks

80
00:21:18,470 --> 00:21:16,240
again the launch was just tremendous

81
00:21:20,870 --> 00:21:18,480
today to to see that rocket roar into

82
00:21:22,630 --> 00:21:20,880
space and to hear the noise and and

83
00:21:24,230 --> 00:21:22,640
think of all the thousands of hours of

84
00:21:26,070 --> 00:21:24,240
work that went into that rocket the

85
00:21:28,390 --> 00:21:26,080
training for the crews to get ready both

86
00:21:30,870 --> 00:21:28,400
the ground crews the flight crews the

87
00:21:32,470 --> 00:21:30,880
teams on board in houston that got the

88
00:21:34,710 --> 00:21:32,480

space station ready to receive this

89

00:21:36,870 --> 00:21:34,720

soyuz capsule just a tremendous amount

90

00:21:39,029 --> 00:21:36,880

of effort to see all that come to this

91

00:21:41,029 --> 00:21:39,039

culmination today and see that rocket

92

00:21:42,710 --> 00:21:41,039

rise out here and and just what a

93

00:21:45,190 --> 00:21:42,720

beautiful beautiful launch today as i

94

00:21:46,789 --> 00:21:45,200

got to see that the launch and they

95

00:21:48,630 --> 00:21:46,799

never get old each launch is very

96

00:21:49,909 --> 00:21:48,640

different and this one was special in

97

00:21:51,590 --> 00:21:49,919

its own way

98

00:21:54,230 --> 00:21:51,600

before we look ahead let's take a look

99

00:21:56,549 --> 00:21:54,240

back 37 years ago today

100

00:21:58,149 --> 00:21:56,559

apollo soyuz began that historic mission

101
00:22:00,549 --> 00:21:58,159
that opened the avenue of international

102
00:22:02,950 --> 00:22:00,559
cooperation that we saw perpetuated here

103
00:22:05,750 --> 00:22:02,960
with this launch today

104
00:22:07,430 --> 00:22:05,760
37 years is it amazing that this

105
00:22:09,510 --> 00:22:07,440
international cooperation that first

106
00:22:11,110 --> 00:22:09,520
handshake in space has yielded such a

107
00:22:13,510 --> 00:22:11,120
project in orbit

108
00:22:15,669 --> 00:22:13,520
it's absolutely amazing when when i

109
00:22:18,390 --> 00:22:15,679
think about what occurred to make apollo

110
00:22:20,470 --> 00:22:18,400
soyuz happen and and to bring these two

111
00:22:22,549 --> 00:22:20,480
countries together to get the technology

112
00:22:24,149 --> 00:22:22,559
to have the understanding to go to make

113
00:22:26,390 --> 00:22:24,159

happen apollo soyuz to have that

114

00:22:29,190 --> 00:22:26,400

handshake and the exchange of the coins

115

00:22:31,029 --> 00:22:29,200

in space it was a tremendous effort and

116

00:22:33,590 --> 00:22:31,039

engineering effort but then i fast

117

00:22:35,350 --> 00:22:33,600

forward to today 37 years later and i

118

00:22:37,590 --> 00:22:35,360

look at what we're doing and the level

119

00:22:39,830 --> 00:22:37,600

of cooperation the level of dependence

120

00:22:41,750 --> 00:22:39,840

between our two countries is so much

121

00:22:44,470 --> 00:22:41,760

more than it ever was back in apollo

122

00:22:46,710 --> 00:22:44,480

soyuz in apollo soyuz we had to work

123

00:22:49,190 --> 00:22:46,720

together but we didn't really we weren't

124

00:22:51,270 --> 00:22:49,200

dependent upon each other today both of

125

00:22:53,590 --> 00:22:51,280

our programs depend

126

00:22:55,590 --> 00:22:53,600

100 on the other program delivering so

127

00:22:57,909 --> 00:22:55,600

the the knowledge the sharing the level

128

00:22:59,590 --> 00:22:57,919

of cooperation that we do today 37 years

129

00:23:01,110 --> 00:22:59,600

after that wonderful event is just

130

00:23:02,950 --> 00:23:01,120

dramatically different than it was

131

00:23:05,190 --> 00:23:02,960

before and and you don't get to this

132

00:23:07,270 --> 00:23:05,200

level of cooperation immediately you get

133

00:23:09,430 --> 00:23:07,280

to it over a period of time and over a

134

00:23:11,510 --> 00:23:09,440

period of steps you learn to trust your

135

00:23:12,950 --> 00:23:11,520

partner you learn to work together and

136

00:23:14,870 --> 00:23:12,960

that's what we've done over these years

137

00:23:17,029 --> 00:23:14,880

and this space station today is not just

138

00:23:18,630 --> 00:23:17,039

a russian u.s space station it's a true

139

00:23:21,430 --> 00:23:18,640

international space station with the

140

00:23:23,669 --> 00:23:21,440

japanese flying on this rocket today the

141

00:23:26,149 --> 00:23:23,679

international cooperation the htv

142

00:23:28,149 --> 00:23:26,159

getting ready to launch in a couple days

143

00:23:30,149 --> 00:23:28,159

what an event and what an amazing thing

144

00:23:31,830 --> 00:23:30,159

is occurring in space and i can't stress

145

00:23:33,750 --> 00:23:31,840

enough to our populations here on the

146

00:23:35,190 --> 00:23:33,760

earth to take a look to get up in the

147

00:23:37,590 --> 00:23:35,200

morning or the evening and watch that

148

00:23:38,710 --> 00:23:37,600

little white dot fly across overhead and

149

00:23:40,710 --> 00:23:38,720

think about the international

150

00:23:42,710 --> 00:23:40,720

cooperation think about the thousands of

151
00:23:44,549 --> 00:23:42,720
hours of work around the world that made

152
00:23:45,669 --> 00:23:44,559
this beautiful research facility

153
00:23:47,590 --> 00:23:45,679
possible

154
00:23:50,230 --> 00:23:47,600
what a what a humbling

155
00:23:51,990 --> 00:23:50,240
experience it is to be here today

156
00:23:53,750 --> 00:23:52,000
following on the footsteps of apollo

157
00:23:56,230 --> 00:23:53,760
soil use as you've discussed

158
00:23:58,310 --> 00:23:56,240
you mentioned the htv uh that uh is the

159
00:23:59,669 --> 00:23:58,320
japanese cargo ship being prepared even

160
00:24:01,029 --> 00:23:59,679
as we speak for launch out of

161
00:24:02,470 --> 00:24:01,039
tanagashima

162
00:24:05,110 --> 00:24:02,480
next weekend

163
00:24:07,669 --> 00:24:05,120

that kicks off nine visiting vehicle

164

00:24:10,630 --> 00:24:07,679

operations between japanese and russian

165

00:24:12,789 --> 00:24:10,640

vehicles over the next 17 days with two

166

00:24:14,870 --> 00:24:12,799

spacewalks by this crew yet to come in

167

00:24:17,190 --> 00:24:14,880

the weeks ahead in august

168

00:24:19,669 --> 00:24:17,200

it's almost a daunting thought to

169

00:24:21,669 --> 00:24:19,679

consider how much work lies ahead yeah

170

00:24:23,669 --> 00:24:21,679

it's it's another dynamic time we

171

00:24:25,430 --> 00:24:23,679

thought when assembly was done and we

172

00:24:26,630 --> 00:24:25,440

were done building this magnificent

173

00:24:28,630 --> 00:24:26,640

structure

174

00:24:30,630 --> 00:24:28,640

things would slow down but no the

175

00:24:32,630 --> 00:24:30,640

ability to just stay in space and keep

176

00:24:34,789 --> 00:24:32,640

this vehicle resupplied to bring up

177

00:24:36,950 --> 00:24:34,799

quality research to return research

178

00:24:39,269 --> 00:24:36,960

requires all this logistics and this

179

00:24:40,950 --> 00:24:39,279

carried you know the hardware from japan

180

00:24:44,149 --> 00:24:40,960

the progress vehicles all those

181

00:24:46,470 --> 00:24:44,159

activities are very difficult to happen

182

00:24:48,070 --> 00:24:46,480

and make occur and for these teams to

183

00:24:49,350 --> 00:24:48,080

stay focused and make this happen is

184

00:24:51,029 --> 00:24:49,360

just amazing

185

00:24:53,029 --> 00:24:51,039

and one final question

186

00:24:55,669 --> 00:24:53,039

veteran crew

187

00:24:57,110 --> 00:24:55,679

rising to orbit today they will join a

188

00:24:58,630 --> 00:24:57,120

crew that's been on orbit for the past

189

00:25:00,470 --> 00:24:58,640

couple of months including gennady

190

00:25:03,029 --> 00:25:00,480

padalka first three-time station

191

00:25:05,110 --> 00:25:03,039

commander uh your thoughts about uh the

192

00:25:06,710 --> 00:25:05,120

complexion of this crew

193

00:25:08,870 --> 00:25:06,720

against the volume of work that lies

194

00:25:10,710 --> 00:25:08,880

ahead for them again i think we've we've

195

00:25:13,750 --> 00:25:10,720

done an extremely good job of putting

196

00:25:15,430 --> 00:25:13,760

together a really phenomenal crew i know

197

00:25:17,909 --> 00:25:15,440

this crew individually i've seen them

198

00:25:19,430 --> 00:25:17,919

fly many times before as a team we've

199

00:25:21,510 --> 00:25:19,440

got the right team going up the team

200

00:25:24,230 --> 00:25:21,520

that's on orbit is also very strong so

201
00:25:25,830 --> 00:25:24,240
again with these two really strong teams

202
00:25:28,710 --> 00:25:25,840
and a good support from the ground both

203
00:25:30,310 --> 00:25:28,720
here in russia and in in houston

204
00:25:32,070 --> 00:25:30,320
and throughout the world they can

205
00:25:33,750 --> 00:25:32,080
accomplish this task in front of them so

206
00:25:35,110 --> 00:25:33,760
she's talked about these nine critical

207
00:25:36,549 --> 00:25:35,120
events that are going to be occurring

208
00:25:38,950 --> 00:25:36,559
they're going to be doing research at

209
00:25:41,190 --> 00:25:38,960
the same time but but this experience of

210
00:25:42,630 --> 00:25:41,200
this crew will get tested over the next

211
00:25:44,950 --> 00:25:42,640
several months as they do all these

212
00:25:46,710 --> 00:25:44,960
activities but i have no no doubt about

213
00:25:48,710 --> 00:25:46,720

what this these crews can accomplish

214

00:25:50,390 --> 00:25:48,720

they are really the ultimate and

215

00:25:52,870 --> 00:25:50,400

experienced crews and i can't think of a