



1
00:00:50,079 --> 00:02:22,229
okay

2
00:02:22,239 --> 00:03:37,190
uh

3
00:03:37,200 --> 00:04:29,830
oh

4
00:04:29,840 --> 00:05:03,270
is

5
00:05:03,280 --> 00:05:22,629
uh

6
00:05:22,639 --> 00:05:39,510
hello

7
00:05:39,520 --> 00:05:53,670
foreign

8
00:05:53,680 --> 00:06:38,230
hmm

9
00:06:38,240 --> 00:08:07,670
so

10
00:08:07,680 --> 00:09:12,949
who's jeremy

11
00:09:12,959 --> 00:10:07,030
so

12
00:11:04,550 --> 00:10:51,190
uh

13
00:11:04,560 --> 00:11:14,949

so

14

00:11:14,959 --> 00:11:41,829

oh

15

00:11:41,839 --> 00:12:01,190

is

16

00:12:04,550 --> 00:12:02,710

peggy whitson chief of the astronaut

17

00:12:06,629 --> 00:12:04,560

office peggy um

18

00:12:08,629 --> 00:12:06,639

12 years ago today

19

00:12:10,230 --> 00:12:08,639

the zvezda service module is launched

20

00:12:12,790 --> 00:12:10,240

from a launch pad several miles from

21

00:12:15,269 --> 00:12:12,800

where we're standing at this moment

22

00:12:17,269 --> 00:12:15,279

that began the most serious aspect of

23

00:12:19,590 --> 00:12:17,279

the assembly of the space station

24

00:12:21,670 --> 00:12:19,600

in a few days launch of the next crew to

25

00:12:23,509 --> 00:12:21,680

perpetuate the work up there

26
00:12:25,350 --> 00:12:23,519
your thoughts on how far we've come over

27
00:12:27,269 --> 00:12:25,360
the past 12 years from service module

28
00:12:29,990 --> 00:12:27,279
launch to the upcoming launch of sunny

29
00:12:30,949 --> 00:12:30,000
inaki and yuri well it's actually huge

30
00:12:32,550 --> 00:12:30,959
the

31
00:12:34,550 --> 00:12:32,560
number of accomplishments that have

32
00:12:36,389 --> 00:12:34,560
occurred over that time frame building

33
00:12:37,670 --> 00:12:36,399
the structure of the international space

34
00:12:39,750 --> 00:12:37,680
station

35
00:12:41,829 --> 00:12:39,760
is hard to even describe and understand

36
00:12:43,430 --> 00:12:41,839
but you know to have so many modules the

37
00:12:46,310 --> 00:12:43,440
sizes of

38
00:12:48,069 --> 00:12:46,320

school buses connected together on orbit

39

00:12:51,430 --> 00:12:48,079

and truss assemblies longer than a

40

00:12:52,550 --> 00:12:51,440

football field and solar arrays 239 feet

41

00:12:55,030 --> 00:12:52,560

each

42

00:12:56,949 --> 00:12:55,040

and four pair it's just an amazing feat

43

00:12:59,030 --> 00:12:56,959

that all of this has been constructed on

44

00:13:00,710 --> 00:12:59,040

orbit and now now that we have all these

45

00:13:02,710 --> 00:13:00,720

laboratories up there we're we're

46

00:13:05,509 --> 00:13:02,720

continuing the next phase of of

47

00:13:07,910 --> 00:13:05,519

exploration with scientific exploration

48

00:13:10,550 --> 00:13:07,920

looking at various different phys

49

00:13:13,430 --> 00:13:10,560

physical and biological sciences

50

00:13:14,949 --> 00:13:13,440

onboard the international space station

51

00:13:17,350 --> 00:13:14,959

sunny and aki

52

00:13:18,870 --> 00:13:17,360

final days before launch

53

00:13:21,750 --> 00:13:18,880

how are they doing what's their level of

54

00:13:23,829 --> 00:13:21,760

preparation and their level of uh

55

00:13:25,990 --> 00:13:23,839

shall we say uh ready to get on with

56

00:13:28,389 --> 00:13:26,000

this flight oh they're absolutely ready

57

00:13:30,470 --> 00:13:28,399

they're very gung-ho this crew is a very

58

00:13:32,870 --> 00:13:30,480

special crew very outgoing and

59

00:13:34,710 --> 00:13:32,880

gregarious crew and i think folks on the

60

00:13:37,190 --> 00:13:34,720

ground will have fun watching them in

61

00:13:38,389 --> 00:13:37,200

addition to them having fun on orbit

62

00:13:40,790 --> 00:13:38,399

they've got a

63

00:13:42,550 --> 00:13:40,800

fantastically busy mission ahead of them

64

00:13:44,629 --> 00:13:42,560

they are looking toward nine visiting

65

00:13:46,790 --> 00:13:44,639

vehicles during the time that they're up

66

00:13:49,750 --> 00:13:46,800

on board the space station which is

67

00:13:50,550 --> 00:13:49,760

really a lot of coming and going and

68

00:13:52,389 --> 00:13:50,560

uh

69

00:13:54,550 --> 00:13:52,399

it's going to take a lot of choreography

70

00:13:56,790 --> 00:13:54,560

by the ground teams and the crews on

71

00:13:58,790 --> 00:13:56,800

orbit to make this all happen it'll be a

72

00:13:59,670 --> 00:13:58,800

very challenging and exciting time for

73

00:14:00,790 --> 00:13:59,680

them

74

00:14:03,350 --> 00:14:00,800

speaking of that a little more

75

00:14:06,150 --> 00:14:03,360

specificity in a six week period after

76
00:14:08,550 --> 00:14:06,160
docking there are nine visiting vehicles

77
00:14:12,389 --> 00:14:08,560
dockings undockings redockings two

78
00:14:14,389 --> 00:14:12,399
spacewalks all in that time frame

79
00:14:16,710 --> 00:14:14,399
almost unprecedented volume of activity

80
00:14:18,389 --> 00:14:16,720
how are they gonna handle all that well

81
00:14:20,790 --> 00:14:18,399
it'll it'll require a lot of

82
00:14:22,949 --> 00:14:20,800
choreography to get it all handled and i

83
00:14:24,949 --> 00:14:22,959
think that our teams on the ground have

84
00:14:27,350 --> 00:14:24,959
a plan and and i know our crews are

85
00:14:29,030 --> 00:14:27,360
ready to implement on orbit

86
00:14:31,189 --> 00:14:29,040
and bring you one final question two

87
00:14:33,269 --> 00:14:31,199
months ago we were back here for joe

88
00:14:35,509 --> 00:14:33,279

acaba's launch two months later another

89

00:14:37,990 --> 00:14:35,519

soyuz vehicle behind you ready to be

90

00:14:40,790 --> 00:14:38,000

hoisted vertically for launch on sunday

91

00:14:42,470 --> 00:14:40,800

uh an almost amazing piece of activity

92

00:14:44,389 --> 00:14:42,480

here in baikonur as well

93

00:14:45,670 --> 00:14:44,399

yeah it has been i was here two weeks

94

00:14:47,350 --> 00:14:45,680

ago for a

95

00:14:48,790 --> 00:14:47,360

landing for don pettit and andre

96

00:14:51,750 --> 00:14:48,800

kuiper's landing

97

00:14:54,150 --> 00:14:51,760

uh and so it's it's just been uh a lot

98

00:14:56,870 --> 00:14:54,160

of activity going on here in in

99

00:14:58,710 --> 00:14:56,880

kazakhstan as well as all over the world

100

00:15:00,710 --> 00:14:58,720

and all the control centers that

101

00:15:09,509 --> 00:15:00,720

participate in the international space

102

00:15:12,710 --> 00:15:11,110

janet cavandi director of flight crew

103

00:15:15,350 --> 00:15:12,720

operations at the johnson space center

104

00:15:17,030 --> 00:15:15,360

janet scarcely two months after joe

105

00:15:19,030 --> 00:15:17,040

acaba launched to the international

106

00:15:20,870 --> 00:15:19,040

space station another soyuz on the pad

107

00:15:22,629 --> 00:15:20,880

behind you

108

00:15:25,030 --> 00:15:22,639

sunni williams and aki hoshide along with

109

00:15:26,710 --> 00:15:25,040

yuri malenchenko ready to go on sunday

110

00:15:28,389 --> 00:15:26,720

uh what is your

111

00:15:30,069 --> 00:15:28,399

your your thoughts on their level of

112

00:15:31,910 --> 00:15:30,079

preparedness for launch and the busy

113

00:15:34,150 --> 00:15:31,920

time that lies ahead well of course we

114

00:15:36,069 --> 00:15:34,160

have a pretty uh accomplished crew

115

00:15:38,310 --> 00:15:36,079

they're they're very ready to go they've

116

00:15:39,749 --> 00:15:38,320

been bent most of them been there before

117

00:15:40,790 --> 00:15:39,759

so this won't be anything new for these

118

00:15:43,350 --> 00:15:40,800

guys

119

00:15:45,030 --> 00:15:43,360

so they're very anxious you know ready

120

00:15:47,590 --> 00:15:45,040

to ready to go they know there's a lot

121

00:15:49,509 --> 00:15:47,600

of work up there to be done uh it's not

122

00:15:51,430 --> 00:15:49,519

a place you can just kick back and relax

123

00:15:53,829 --> 00:15:51,440

you know there's so much science to be

124

00:15:55,430 --> 00:15:53,839

done there's a lot of payload operations

125

00:15:57,509 --> 00:15:55,440

up there that they have to be working on

126

00:15:59,030 --> 00:15:57,519

when they get there there's a lot of

127

00:16:00,790 --> 00:15:59,040

stuff that needs to be maintained all

128

00:16:02,069 --> 00:16:00,800

the time on space station so you know

129

00:16:03,990 --> 00:16:02,079

they're ready for it and they're in a

130

00:16:06,150 --> 00:16:04,000

good mood and ready to go

131

00:16:08,389 --> 00:16:06,160

in the particular case of this crew they

132

00:16:11,030 --> 00:16:08,399

hit the ground running literally at the

133

00:16:12,310 --> 00:16:11,040

moment of hatch opening from the time of

134

00:16:14,230 --> 00:16:12,320

launch until

135

00:16:16,470 --> 00:16:14,240

the beginning of august nine visiting

136

00:16:18,870 --> 00:16:16,480

vehicle operations dockings undockings

137

00:16:21,189 --> 00:16:18,880

redockings plus two evas at the end of

138

00:16:22,470 --> 00:16:21,199

august all this within about a six-week

139

00:16:24,069 --> 00:16:22,480

period

140

00:16:25,749 --> 00:16:24,079

how can the crew bite off this much

141

00:16:27,350 --> 00:16:25,759

right off the bat well that's why we

142

00:16:28,949 --> 00:16:27,360

pick such good people right for these

143

00:16:30,550 --> 00:16:28,959

things you know we interview a lot of

144

00:16:32,150 --> 00:16:30,560

people you know that we've gone through

145

00:16:34,150 --> 00:16:32,160

over six thousand applications so far

146

00:16:36,470 --> 00:16:34,160

for the next election so we try to pick

147

00:16:39,590 --> 00:16:36,480

the best possible people we can who are

148

00:16:41,430 --> 00:16:39,600

very enthusiastic and and energetic and

149

00:16:43,030 --> 00:16:41,440

really know when a big job has to be

150

00:16:45,749 --> 00:16:43,040

done they're ready for it so these guys

151

00:16:47,590 --> 00:16:45,759

prepare for of course years uh in

152

00:16:49,350 --> 00:16:47,600

advance of a launch they know what to

153

00:16:51,350 --> 00:16:49,360

expect they know they're going to have a

154

00:16:53,829 --> 00:16:51,360

lot to be doing and it's just a mental

155

00:16:54,790 --> 00:16:53,839

mindset you have to be prepared mentally

156

00:16:56,470 --> 00:16:54,800

you have to know that you're going to

157

00:16:58,230 --> 00:16:56,480

hit the ground running you don't have

158

00:17:00,069 --> 00:16:58,240

time to sit and really reflect on where

159

00:17:02,389 --> 00:17:00,079

you are and these guys like i said

160

00:17:03,829 --> 00:17:02,399

professionals have done this before so

161

00:17:06,789 --> 00:17:03,839

they know what they're up against they

162

00:17:08,230 --> 00:17:06,799

know how to you know work their time and

163

00:17:09,829 --> 00:17:08,240

their rest so that they're always

164

00:17:11,909 --> 00:17:09,839

prepared ready to go for everything that

165

00:17:14,309 --> 00:17:11,919

they they're expecting

166

00:17:15,909 --> 00:17:14,319

we're coming up on 12 years of permanent

167

00:17:17,270 --> 00:17:15,919

human occupancy of the international

168

00:17:20,150 --> 00:17:17,280

space station

169

00:17:22,069 --> 00:17:20,160

from a few fledgling modules to the city

170

00:17:22,870 --> 00:17:22,079

in the sky that it is today

171

00:17:24,630 --> 00:17:22,880

uh

172

00:17:26,150 --> 00:17:24,640

what are your thoughts you've been you

173

00:17:27,829 --> 00:17:26,160

went to the mir space station you went

174

00:17:30,390 --> 00:17:27,839

to the international space station

175

00:17:32,870 --> 00:17:30,400

during assembly your thoughts on where

176

00:17:35,190 --> 00:17:32,880

it has come from in the past decade and

177

00:17:37,190 --> 00:17:35,200

two years yeah it's it's actually just

178

00:17:39,350 --> 00:17:37,200

quite incredible i mean just from my

179

00:17:41,350 --> 00:17:39,360

first experience seeing mir and what an

180

00:17:42,950 --> 00:17:41,360

incredible space station that was then

181

00:17:44,789 --> 00:17:42,960

to be able to go back and go to the

182

00:17:47,110 --> 00:17:44,799

international space station during its

183

00:17:49,270 --> 00:17:47,120

construction phase and

184

00:17:51,270 --> 00:17:49,280

wishing so much that you could share in

185

00:17:54,789 --> 00:17:51,280

person what it feels like to approach a

186

00:17:57,590 --> 00:17:54,799

space station and how huge it has become

187

00:17:59,909 --> 00:17:57,600

and how complex it is and what a tribute

188

00:18:01,510 --> 00:17:59,919

to human humanity that we've been able

189

00:18:03,990 --> 00:18:01,520

to construct something so large and

190

00:18:06,630 --> 00:18:04,000

complex in space in a cooperative manner

191

00:18:08,950 --> 00:18:06,640

the way we have is just really

192

00:18:10,310 --> 00:18:08,960

impressive and contribute to our race i

193

00:18:12,150 --> 00:18:10,320

think it's just

194

00:18:14,470 --> 00:18:12,160

an incredible accomplishment so it's

195

00:18:16,870 --> 00:18:14,480

humbling and you're very proud to be

196

00:18:19,350 --> 00:18:16,880

part of it and you know like i said

197

00:18:21,430 --> 00:18:19,360

crews are up there ready to do what