



1  
00:01:06,530 --> 00:01:02,970  
Debra mayor Houston good morning little

2  
00:01:06,540 --> 00:01:14,240  
good morning Houston it sounds great

3  
00:01:20,040 --> 00:01:18,359  
unfortunately and come to the time and

4  
00:01:24,120 --> 00:01:20,050  
we must summarize what we have done

5  
00:01:27,149 --> 00:01:24,130  
together and again unfortunately come to

6  
00:01:29,460 --> 00:01:27,159  
the point where we speak of speak to our

7  
00:01:35,669 --> 00:01:29,470  
friends of farewells and until we meet

8  
00:01:39,450 --> 00:01:35,679  
again but this is natural because our

9  
00:01:43,050 --> 00:01:39,460  
lunch a few minutes ago we called our

10  
00:01:46,499 --> 00:01:43,060  
friends who work on the ground and who

11  
00:01:48,060 --> 00:01:46,509  
would also like to go into space to work

12  
00:01:53,249 --> 00:01:48,070  
on the MIR complex on the space shuttle

13  
00:01:56,190 --> 00:01:53,259

and the time has come to say farewell to

14

00:01:59,780 --> 00:01:56,200

make way for others over the past few

15

00:02:02,039 --> 00:01:59,790

years which have passed very quickly

16

00:02:06,389 --> 00:02:02,049

that means that we've done quite a bit

17

00:02:11,009 --> 00:02:06,399

of work and we are intent with what we

18

00:02:14,699 --> 00:02:11,019

have accomplished we have good good

19

00:02:16,560 --> 00:02:14,709

impressions a large number of good

20

00:02:19,319 --> 00:02:16,570

results we hope are returning on the

21

00:02:21,620 --> 00:02:19,329

shuttle which is our hope and this is

22

00:02:24,920 --> 00:02:21,630

why indeed people fly into space

23

00:02:28,020 --> 00:02:24,930

we hope that the results of these

24

00:02:31,250 --> 00:02:28,030

experiments will help everyone on the

25

00:02:36,120 --> 00:02:31,260

planet I would like to express my thanks

26  
00:02:38,819 --> 00:02:36,130  
to everyone who trained the crews all

27  
00:02:42,000 --> 00:02:38,829  
the specialists who helped in the

28  
00:02:45,150 --> 00:02:42,010  
training to perform all of these tasks

29  
00:02:48,030 --> 00:02:45,160  
and a great thanks to the commander of

30  
00:02:50,670 --> 00:02:48,040  
the space shuttle and to all of the crew

31  
00:02:54,599 --> 00:02:50,680  
members because each tried to perform

32  
00:02:57,390 --> 00:02:54,609  
their tasks only in the most diligent

33  
00:03:08,640 --> 00:02:57,400  
and most excellent way thank you to

34  
00:03:12,300 --> 00:03:11,180  
the men on this new space station

35  
00:03:14,790 --> 00:03:12,310  
Kookaburra

36  
00:03:18,119 --> 00:03:14,800  
have asked for a better host or more

37  
00:03:20,910 --> 00:03:18,129  
professional cosmonauts I've never said

38  
00:03:23,960 --> 00:03:20,920

we met two more professional people the

39

00:03:26,789 --> 00:03:23,970

MIR space station itself is an extremely

40

00:03:33,740 --> 00:03:26,799

nice laboratory for doing scientific

41

00:03:37,530 --> 00:03:33,750

work in space it's been a wonderful

42

00:03:39,300 --> 00:03:37,540

professional mission and I think we have

43

00:03:43,380 --> 00:03:39,310

accomplished 100% of the things that we

44

00:03:46,110 --> 00:03:43,390

came up here to do and very sad to leave

45

00:03:53,069 --> 00:03:46,120

to not only find cosmonauts that

46

00:03:55,080 --> 00:03:53,079

excellent sense that was made up to I'd

47

00:03:57,979 --> 00:03:55,090

like to give that Dave wolf a chance to

48

00:04:02,940 --> 00:03:57,989

say something

49

00:04:05,250 --> 00:04:02,950

thanks Terry this has been an amazing

50

00:04:07,680 --> 00:04:05,260

experience it's been one of the hardest

51  
00:04:09,119 --> 00:04:07,690  
of my life and I think Andy can expect

52  
00:04:12,360 --> 00:04:09,129  
the same but that's how the best

53  
00:04:14,479 --> 00:04:12,370  
experiences in our lives must be in many

54  
00:04:18,750 --> 00:04:14,489  
cases we've made the best of friends

55  
00:04:20,819 --> 00:04:18,760  
with poeple and Anatoly I have to say

56  
00:04:23,010 --> 00:04:20,829  
that we are bringing together two of the

57  
00:04:25,800 --> 00:04:23,020  
finest spacefaring nations in the world

58  
00:04:28,379 --> 00:04:25,810  
and the result that we're going to get

59  
00:04:32,100 --> 00:04:28,389  
as we join forces in the International

60  
00:04:33,810 --> 00:04:32,110  
Space Station is going to be amazing the

61  
00:04:36,120 --> 00:04:33,820  
whole cut but all of our countries will

62  
00:04:38,540 --> 00:04:36,130  
take part in this and enjoy this and we

63  
00:04:41,879 --> 00:04:38,550

will share in it and the results will

64

00:04:43,980 --> 00:04:41,889

design our future quality of life just

65

00:04:47,040 --> 00:04:43,990

as massive the past design their current

66

00:04:49,670 --> 00:04:47,050

quality of life and so enjoy taking part

67

00:04:58,420 --> 00:04:49,680

we want to share with all of you and

68

00:05:03,620 --> 00:05:01,670

so this is our a day of mixed feelings

69

00:05:05,240 --> 00:05:03,630

for me because on the one hand the

70

00:05:09,400 --> 00:05:05,250

shuttle is leaving and the funds that I

71

00:05:11,960 --> 00:05:09,410

beam was will be leaving and flying home

72

00:05:14,120 --> 00:05:11,970

I'll be staying here starting what would

73

00:05:16,159 --> 00:05:14,130

be a new phase of my life during

74

00:05:18,980 --> 00:05:16,169

probably what is one of the most unusual

75

00:05:21,830 --> 00:05:18,990

things that anybody could do in this the

76

00:05:23,029 --> 00:05:21,840

last part of the 20th century so they're

77

00:05:25,820 --> 00:05:23,039

leaving that they'll just be the

78

00:05:32,930 --> 00:05:25,830

opportunity to start this adventure that

79

00:05:36,140 --> 00:05:32,940

I'm on so this is Mark Kuro with the

80

00:05:39,110 --> 00:05:36,150

Houston Chronicle newspaper for dr.

81

00:05:41,450 --> 00:05:39,120

Wolfe I wonder what you anticipate for

82

00:05:45,170 --> 00:05:41,460

yourself physically as you return to

83

00:05:47,330 --> 00:05:45,180

Earth do you look forward to a quick

84

00:05:49,820 --> 00:05:47,340

readapt ation to gravity do you think

85

00:05:52,100 --> 00:05:49,830

it's going to be kind of drawn-out will

86

00:05:54,710 --> 00:05:52,110

it be kind of what your predecessors

87

00:06:05,659 --> 00:05:54,720

have encountered or are you going to try

88

00:06:07,430 --> 00:06:05,669

to hurry it up you feel like a Superman

89

00:06:09,890 --> 00:06:07,440

you can lift a refrigerator with your

90

00:06:11,270 --> 00:06:09,900

baby finger and so I'm feeling pretty

91

00:06:14,330 --> 00:06:11,280

good and we've been working out pretty

92

00:06:17,060 --> 00:06:14,340

hard and I expect to be able to walk off

93

00:06:19,430 --> 00:06:17,070

that shuttle and if the scientific

94

00:06:21,920 --> 00:06:19,440

community will allow me that can harm

95

00:06:24,320 --> 00:06:21,930

some of the results that we're looking

96

00:06:33,709 --> 00:06:24,330

for I'm looking for a pretty quick

97

00:06:35,740 --> 00:06:33,719

recovery this is Michele coid in with

98

00:06:38,990 --> 00:06:35,750

the Associated Press for Andy Thomas

99

00:06:41,149 --> 00:06:39,000

your new commander for Mir said today

100

00:06:44,149 --> 00:06:41,159

from Baikonur that your Russian is

101  
00:06:46,999 --> 00:06:44,159  
pretty poor and he's afraid that it's

102  
00:06:49,040 --> 00:06:47,009  
going to have a negative impact on your

103  
00:07:10,460 --> 00:06:49,050  
work do you agree that it might affect

104  
00:07:11,570 --> 00:07:10,470  
your work communication will

105  
00:07:17,630 --> 00:07:11,580  
and farm looking forward to doing

106  
00:07:21,550 --> 00:07:17,640  
Madeline I can assure that Space Station

107  
00:07:26,840 --> 00:07:24,080  
mr. Michelle caught him at the AAP again

108  
00:07:29,090 --> 00:07:26,850  
for commander Soloviev since the next

109  
00:07:31,430 --> 00:07:29,100  
commander of mir did expressed concern

110  
00:07:35,750 --> 00:07:31,440  
about Andy Thomas's Russian skills how

111  
00:07:38,450 --> 00:07:35,760  
would you say you rate his skills nd

112  
00:07:40,580 --> 00:07:38,460  
speaks very well in Russian I expect

113  
00:07:43,790 --> 00:07:40,590

that there will may indeed be some

114

00:07:46,070 --> 00:07:43,800

problems however in the several days

115

00:07:49,130 --> 00:07:46,080

that we have worked together and the I

116

00:07:51,560 --> 00:07:49,140

have not seen any problems I'm telling

117

00:08:00,650 --> 00:07:51,570

you this without any reservation you

118

00:08:04,040 --> 00:08:00,660

speak very well I agree with Dave wolf

119

00:08:06,380 --> 00:08:04,050

that it's excellent environment for the

120

00:08:07,970 --> 00:08:06,390

learning of a language this is Seth

121

00:08:10,370 --> 00:08:07,980

Borenstein from the Orlando Sentinel for

122

00:08:12,230 --> 00:08:10,380

dr. wolf you've talked about in the past

123

00:08:13,820 --> 00:08:12,240

how you've had some down periods and

124

00:08:16,730 --> 00:08:13,830

some up periods during your four months

125

00:08:18,260 --> 00:08:16,740

can you tell us what the what

126

00:08:19,850 --> 00:08:18,270

precipitated the lowest periods what

127

00:08:46,490 --> 00:08:19,860

they were like and what precipitated the

128

00:08:47,990 --> 00:08:46,500

highest periods and what they were going

129

00:08:49,850 --> 00:08:48,000

out with the most experienced space

130

00:08:52,970 --> 00:08:49,860

Walker in the world for a private lesson

131

00:08:54,470 --> 00:08:52,980

this was anatoly sixteen space walk and

132

00:08:57,050 --> 00:08:54,480

when you put the carabiner on the

133

00:08:58,820 --> 00:08:57,060

outside and float outside and get a good

134

00:09:00,620 --> 00:08:58,830

look at what's really going on here

135

00:09:05,420 --> 00:09:00,630

that's got to be one of the highest

136

00:09:09,980 --> 00:09:05,430

points in your life todd halverson of

137

00:09:11,930 --> 00:09:09,990

florida today for the mere 24 crew could

138

00:09:14,030 --> 00:09:11,940

you tell us whether you think the

139

00:09:17,050 --> 00:09:14,040

shuttle-mir program has helped the

140

00:09:19,850 --> 00:09:17,060

United States and Russia bridge cultural

141

00:09:22,550 --> 00:09:19,860

technical and language barriers and

142

00:09:24,300 --> 00:09:22,560

whether you think that experience will

143

00:09:27,269 --> 00:09:24,310

help both sides prepare

144

00:09:36,030 --> 00:09:27,279

for building the International Space

145

00:09:38,069 --> 00:09:36,040

Station there will be a great benefit as

146

00:09:39,869 --> 00:09:38,079

I look back at what we've all learned

147

00:09:41,369 --> 00:09:39,879

I'm talking about the people on the

148

00:09:43,499 --> 00:09:41,379

ground and the control centers the

149

00:09:46,049 --> 00:09:43,509

people that design these missions in

150

00:09:48,179 --> 00:09:46,059

kuranda cruise it would be hard to

151

00:09:50,309 --> 00:09:48,189

imagine pressing forward with the

152

00:09:51,809 --> 00:09:50,319

International Space Station not having

153

00:09:57,900 --> 00:09:51,819

had the experience of the joint

154

00:10:00,059 --> 00:09:57,910

shuttle-mir program bill Harwood Seabee

155

00:10:01,619 --> 00:10:00,069

yeah it's just a change of subject

156

00:10:03,360 --> 00:10:01,629

question I know the flight control team

157

00:10:05,879 --> 00:10:03,370

down in Houston today took just a moment

158

00:10:07,619 --> 00:10:05,889

to recall flight 51I which of course was

159

00:10:09,299 --> 00:10:07,629

12 years ago today I was just curious if

160

00:10:10,710 --> 00:10:09,309

you guys out there took a moment to

161

00:10:14,809 --> 00:10:10,720

remember that today or if you're too

162

00:10:22,650 --> 00:10:16,829

actually we took a moment to remember

163

00:10:23,999 --> 00:10:22,660

that last night was very well liked they

164

00:10:25,860 --> 00:10:24,009

say everyone remembers when that

165

00:10:27,740 --> 00:10:25,870

happened she brought it up to us and we

166

00:10:30,119 --> 00:10:27,750

took a moment to remember it last night

167

00:10:33,119 --> 00:10:30,129

bill Horne with CBS again also for

168

00:10:34,829 --> 00:10:33,129

Anatole Slav you have sir though I guess

169

00:10:36,990 --> 00:10:34,839

there's a half-dozen spacewalks or e VA

170

00:10:38,699 --> 00:10:37,000

schedules for the mere 25 crew coming up

171

00:10:41,280 --> 00:10:38,709

and several of those are listed as

172

00:10:43,019 --> 00:10:41,290

Spector repair EVs

173

00:10:44,460 --> 00:10:43,029

if someone who's there and has looked at

174

00:10:46,710 --> 00:10:44,470

this pretty intimately and worked on it

175

00:10:48,329 --> 00:10:46,720

yourself what do you think the prospects

176

00:10:53,850 --> 00:10:48,339

are of eventually being able to recover

177

00:10:58,850 --> 00:10:53,860

the use of Spectre downstream very

178

00:11:05,420 --> 00:10:58,860

urgent work undoubtedly it will require

179

00:11:08,759 --> 00:11:05,430

extensive expenditures both material and

180

00:11:12,960 --> 00:11:08,769

and physical effort on the part of the

181

00:11:15,780 --> 00:11:12,970

crew because it requires PVA and work

182

00:11:19,470 --> 00:11:15,790

inside the station but to say briefly

183

00:11:26,249 --> 00:11:19,480

it's a very urgent real work it's a good

184

00:11:29,119 --> 00:11:26,259

practice or the possible repairs to be

185

00:11:32,990 --> 00:11:29,129

performed on the future Space Station

186

00:11:38,020 --> 00:11:33,000

all of you understand mirror very well

187

00:11:39,460 --> 00:11:38,030

it's very fine detail right now we are

188

00:11:42,790 --> 00:11:39,470

to build a new International Space

189

00:11:45,760 --> 00:11:42,800

Station what what impressions as you do

190

00:11:48,100 --> 00:11:45,770

you as specialists do what might you

191

00:11:54,730 --> 00:11:48,110

have in terms of what you'd like to see

192

00:11:58,630 --> 00:11:54,740

in a new station I will take the lead in

193

00:12:00,430 --> 00:11:58,640

answering first yes it's true

194

00:12:02,530 --> 00:12:00,440

soon the first segment of the

195

00:12:04,350 --> 00:12:02,540

International Space Station will be

196

00:12:09,130 --> 00:12:04,360

launched into orbit

197

00:12:12,340 --> 00:12:09,140

as far as what we might desire this is a

198

00:12:15,280 --> 00:12:12,350

very broad question but if - if we

199

00:12:18,520 --> 00:12:15,290

answer it briefly we might want to pay

200

00:12:22,990 --> 00:12:18,530

attention to design and ergonomic human

201  
00:12:25,240 --> 00:12:23,000  
factors aspects of the interior of the

202  
00:12:27,670 --> 00:12:25,250  
station there's a great deal of effort

203  
00:12:39,240 --> 00:12:27,680  
that must be expended in this area and

204  
00:12:45,960 --> 00:12:43,150  
you international station will be a

205  
00:12:49,570 --> 00:12:45,970  
great achievement of the two leading

206  
00:12:54,450 --> 00:12:49,580  
spacefaring nations and other countries

207  
00:13:03,160 --> 00:12:54,460  
it will be a work place it will be a

208  
00:13:04,630 --> 00:13:03,170  
major achievement place one shirts and

209  
00:13:06,520 --> 00:13:04,640  
we'd like to present these to you and

210  
00:13:09,370 --> 00:13:06,530  
face one remember with the stepping

211  
00:13:11,140 --> 00:13:09,380  
stone to the next place International

212  
00:13:12,190 --> 00:13:11,150  
Space Station and then hopefully on to

213  
00:13:23,350 --> 00:13:12,200

Mars

214

00:13:33,139 --> 00:13:29,150

are you with us on audio for sure our

215

00:13:35,540 --> 00:13:33,149

Dave we're good I'd like to exploring

216

00:13:39,139 --> 00:13:35,550

something here the touch that's a lot in

217

00:13:42,170 --> 00:13:39,149

space there's a a factory a candy

218

00:13:44,500 --> 00:13:42,180

factory that's on the near the central

219

00:13:47,030 --> 00:13:44,510

part of Moscow called the Red October

220

00:13:49,610 --> 00:13:47,040

candy factory and they've been sending

221

00:13:53,030 --> 00:13:49,620

us for the best candy in the world it

222

00:13:55,940 --> 00:13:53,040

comes up in the progress launches some

223

00:13:57,740 --> 00:13:55,950

came up on the shuttle and anyway we've

224

00:14:01,670 --> 00:13:57,750

been enjoying that but we found another

225

00:14:03,259 --> 00:14:01,680

candy factory and we've been receiving

226

00:14:16,660 --> 00:14:03,269

all this candy but we want to give

227

00:14:22,819 --> 00:14:20,329

this is the Wolfe County Factory in Auto

228

00:14:25,400 --> 00:14:22,829

candy Anna made this so we'll try this

229

00:14:29,120 --> 00:14:25,410

after dinner tonight and one for you and

230

00:14:30,860 --> 00:14:29,130

it's only one for you Pavel and kill me

231

00:14:39,319 --> 00:14:30,870

makes a big difference up here it's one

232

00:14:53,480 --> 00:14:39,329

of the joys of space homemade candy from

233

00:15:05,600 --> 00:14:55,669

something wrong experience is just too

234

00:15:09,949 --> 00:15:05,610

much don't have the right words Chris