



1
00:00:29,490 --> 00:00:26,280
dawn the first appearance of daylight

2
00:00:36,819 --> 00:00:29,500
what was formerly obscure now becomes

3
00:00:36,829 --> 00:00:44,700
a beginning

4
00:00:44,710 --> 00:00:50,750
never

5
00:00:50,760 --> 00:00:58,330
sort of Rogers

6
00:01:03,420 --> 00:01:01,220
30

7
00:01:19,700 --> 00:01:03,430
ha

8
00:01:19,710 --> 00:01:34,919
docking completed

9
00:01:42,899 --> 00:01:39,429
when we open this hatch in space we were

10
00:01:46,419 --> 00:01:42,909
opening back on the earth a new era in

11
00:01:48,940 --> 00:01:46,429
the history of man the journey to the

12
00:01:51,490 --> 00:01:48,950
future humankind's reach for the cosmos

13
00:01:54,520 --> 00:01:51,500

began on the steppes of Central Asia on

14

00:01:59,620 --> 00:01:54,530

October fourth 1957 with a launch of

15

00:02:01,959 --> 00:01:59,630

spud four years later fueled by the

16

00:02:04,569 --> 00:02:01,969

dreams of space pioneers Constantine

17

00:02:06,789 --> 00:02:04,579

Shaw kofsky and Robert Goddard it was

18

00:02:09,400 --> 00:02:06,799

time for humans to leave the surface of

19

00:02:52,540 --> 00:02:09,410

our planet to break the shackles bonding

20

00:02:52,550 --> 00:03:08,290

Brandi really wrote a and I feel fine

21

00:03:15,490 --> 00:03:11,890

I believe that this nation should commit

22

00:03:18,310 --> 00:03:15,500

itself to achieving the goal before this

23

00:03:20,380 --> 00:03:18,320

decade is out of landing a man on the

24

00:03:48,710 --> 00:03:20,390

moon and returning him safely to the

25

00:03:54,059 --> 00:03:51,480

as men and women learned how to live and

26
00:03:56,130 --> 00:03:54,069
work in space the superpowers discuss

27
00:04:03,650 --> 00:03:56,140
cooperative space projects and the use

28
00:04:08,730 --> 00:04:06,030
in the spring of nineteen seventy one

29
00:04:13,670 --> 00:04:08,740
the world's first space station salute

30
00:04:26,300 --> 00:04:17,039
two years later skylab is placed in

31
00:04:31,320 --> 00:04:29,250
in the meantime Accords are signed

32
00:04:33,060 --> 00:04:31,330
between the superpowers to enable

33
00:04:35,100 --> 00:04:33,070
spacecraft from the two countries to

34
00:04:38,820 --> 00:04:35,110
rendezvous and link up in orbit for the

35
00:04:42,900 --> 00:04:38,830
first time the project is called Apollo

36
00:04:45,810 --> 00:04:42,910
sawyers in July 1975 after years of

37
00:04:49,230 --> 00:04:45,820
planning the joint effort succeeds and a

38
00:04:53,250 --> 00:04:49,240

new capability is formed dawn glimmers

39

00:04:57,380 --> 00:04:55,620

as Apollo in saw you separated from one

40

00:05:00,210 --> 00:04:57,390

another in the velvet darkness of space

41

00:05:02,550 --> 00:05:00,220

the potential for future cooperation is

42

00:05:06,060 --> 00:05:02,560

left in concept but without a definitive

43

00:05:08,310 --> 00:05:06,070

shape meanwhile halfway around the world

44

00:05:10,680 --> 00:05:08,320

from one another both nations embarked

45

00:05:13,050 --> 00:05:10,690

on new projects one centered around a

46

00:05:15,570 --> 00:05:13,060

reusable spaceship the other around a

47

00:05:41,580 --> 00:05:15,580

space station named mere the Russian

48

00:05:47,100 --> 00:05:44,070

finally with the complexion of the world

49

00:05:49,230 --> 00:05:47,110

transform us and Russian officials agree

50

00:05:51,600 --> 00:05:49,240

to map a journey of cooperative human

51
00:05:56,550 --> 00:05:51,610
spaceflight along with international

52
00:05:59,850 --> 00:05:56,560
partners representing a dozen nations by

53
00:06:02,310 --> 00:05:59,860
joining our efforts we are able to

54
00:06:05,730 --> 00:06:02,320
create a whole that is greater than the

55
00:06:07,170 --> 00:06:05,740
sum of its parts a bold three-stage plan

56
00:06:10,970 --> 00:06:07,180
of the development of an international

57
00:06:13,260 --> 00:06:10,980
laboratory in space a research station a

58
00:06:15,000 --> 00:06:13,270
place where humans will use their

59
00:06:17,070 --> 00:06:15,010
collective talents to create new

60
00:06:18,750 --> 00:06:17,080
technologies for the benefit of people

61
00:06:21,090 --> 00:06:18,760
on earth while trying to better

62
00:06:24,780 --> 00:06:21,100
understand how to live and work in space

63
00:06:26,370 --> 00:06:24,790

an era of ideological differences

64

00:06:29,820 --> 00:06:26,380

between the worlds two premier

65

00:06:33,930 --> 00:06:29,830

spacefaring nations hands over this new

66

00:06:37,650 --> 00:06:33,940

horizon dawn breaks again brighter than

67

00:06:39,960 --> 00:06:37,660

before the first phase of the

68

00:06:42,180 --> 00:06:39,970

international project will involve joint

69

00:06:44,640 --> 00:06:42,190

scientific and technical work between us

70

00:06:47,640 --> 00:06:44,650

and Russian researchers aboard the MIR

71

00:06:49,410 --> 00:06:47,650

space station up to 10 shuttle flights

72

00:06:52,560 --> 00:06:49,420

will be launched to link up to be her

73

00:06:55,170 --> 00:06:52,570

beginning in 1995 before that worked

74

00:06:56,700 --> 00:06:55,180

against two veteran Russian cosmonauts

75

00:06:59,070 --> 00:06:56,710

will fly aboard the shuttle for the

76

00:07:01,110 --> 00:06:59,080

first time and an American astronaut

77

00:07:04,110 --> 00:07:01,120

will be launched aboard a Soyuz capsule

78

00:07:07,590 --> 00:07:04,120

tamir all will be engaged in scientific

79

00:07:09,720 --> 00:07:07,600

and medical research the joint shuttle

80

00:07:12,090 --> 00:07:09,730

Mir missions will focus on the delivery

81

00:07:13,770 --> 00:07:12,100

of experiments and hardware in support

82

00:07:15,870 --> 00:07:13,780

interim program objectives and

83

00:07:18,030 --> 00:07:15,880

technology demonstrations as well as

84

00:07:20,460 --> 00:07:18,040

life sciences and material sciences

85

00:07:23,270 --> 00:07:20,470

research in both shuttle based Space Lab

86

00:07:25,740 --> 00:07:23,280

workshops and near science marches

87

00:07:27,900 --> 00:07:25,750

astronauts and cosmonauts will work side

88

00:07:29,940 --> 00:07:27,910

by side to perfect automated rendezvous

89

00:07:33,150 --> 00:07:29,950

and docking procedures for use on future

90

00:07:35,220 --> 00:07:33,160

flights and new upgraded solar power

91

00:07:38,160 --> 00:07:35,230

equipment will be installed on near to

92

00:07:39,930 --> 00:07:38,170

enhance its capability systems to

93

00:07:42,630 --> 00:07:39,940

control the temperature and humidity

94

00:07:44,580 --> 00:07:42,640

aboard mir will be improved and onboard

95

00:07:46,800 --> 00:07:44,590

computers communications gear and

96

00:07:49,530 --> 00:07:46,810

stabilization systems will be replaced

97

00:07:51,350 --> 00:07:49,540

and refined to add to meres overall

98

00:07:53,909 --> 00:07:51,360

capability and life's

99

00:07:55,890 --> 00:07:53,919

the refurbishment of mirror will also

100

00:07:58,019 --> 00:07:55,900

optimize the station's laboratory

101
00:07:59,700 --> 00:07:58,029
environment to increase the quality of

102
00:08:02,749 --> 00:07:59,710
the microgravity research to be

103
00:08:05,309 --> 00:08:02,759
conducted by US and Russian scientists

104
00:08:08,100 --> 00:08:05,319
the second step on the road to building

105
00:08:10,649 --> 00:08:08,110
the International outpost combines US

106
00:08:13,139 --> 00:08:10,659
and Russian hardware to create a new

107
00:08:16,469 --> 00:08:13,149
advanced human tended orbital research

108
00:08:18,749 --> 00:08:16,479
facility this complex will significantly

109
00:08:20,609 --> 00:08:18,759
expand and enlarge the scientific

110
00:08:22,799 --> 00:08:20,619
activities initiated in the first phase

111
00:08:24,689 --> 00:08:22,809
of the project while forming the core

112
00:08:27,570 --> 00:08:24,699
around which the international space

113
00:08:29,579 --> 00:08:27,580

station will be constructed both

114

00:08:31,980 --> 00:08:29,589

American shuttles and Russian boosters

115

00:08:36,209 --> 00:08:31,990

will lift components to the developing

116

00:08:38,610 --> 00:08:36,219

orbital complex a pressurized u.s.

117

00:08:41,040 --> 00:08:38,620

laboratory module a Russian service

118

00:08:42,870 --> 00:08:41,050

module docking nodes and environmental

119

00:08:45,569 --> 00:08:42,880

systems will be joined to two trusses

120

00:08:48,180 --> 00:08:45,579

the backbone of the facility which will

121

00:08:49,860 --> 00:08:48,190

also contain the solar arrays electrical

122

00:08:51,990 --> 00:08:49,870

systems and attitude and control

123

00:08:55,829 --> 00:08:52,000

hardware to maintain the station's

124

00:08:58,199 --> 00:08:55,839

stability as the construction of the

125

00:09:00,420 --> 00:08:58,209

phase two station progresses crews of

126
00:09:02,280 --> 00:09:00,430
American and Russian researchers will

127
00:09:04,470 --> 00:09:02,290
continue a program of microgravity

128
00:09:07,470 --> 00:09:04,480
science even more robust than that

129
00:09:09,660 --> 00:09:07,480
conducted during phase 1 the launch of a

130
00:09:12,269 --> 00:09:09,670
u.s. laboratory to the phase two station

131
00:09:14,189 --> 00:09:12,279
and an expanded power supply will enable

132
00:09:16,379 --> 00:09:14,199
scientific experiments to be utilized

133
00:09:20,069 --> 00:09:16,389
for a variety of advanced technical

134
00:09:22,559 --> 00:09:20,079
experiments with its structural heart in

135
00:09:24,509 --> 00:09:22,569
place work on the third and final phase

136
00:09:27,540 --> 00:09:24,519
will begin to complete the construction

137
00:09:30,030 --> 00:09:27,550
of the international station the last

138
00:09:32,280 --> 00:09:30,040

phase will result in a permanent human

139

00:09:35,880 --> 00:09:32,290

presence in space with a full

140

00:09:38,380 --> 00:09:35,890

operational and research capability

141

00:09:40,450 --> 00:09:38,390

the international station will be used

142

00:09:43,360 --> 00:09:40,460

for at least a decade by American

143

00:09:48,460 --> 00:09:43,370

Russian Canadian Japanese and European

144

00:09:51,520 --> 00:09:48,470

researchers a u.s. habitation module

145

00:09:53,230 --> 00:09:51,530

three research modules and international

146

00:09:55,690 --> 00:09:53,240

research modules from Japan and the

147

00:09:57,070 --> 00:09:55,700

European Space Agency will be added to

148

00:09:59,080 --> 00:09:57,080

the station along with the

149

00:10:02,770 --> 00:09:59,090

canadian-built mobile servicing system

150

00:10:04,300 --> 00:10:02,780

using robotic technology electricity to

151

00:10:06,010 --> 00:10:04,310

support the research plan for the

152

00:10:08,020 --> 00:10:06,020

international station will be

153

00:10:10,840 --> 00:10:08,030

significantly increased by a solar

154

00:10:14,800 --> 00:10:10,850

dynamic power system jointly designed by

155

00:10:17,140 --> 00:10:14,810

the US and Russia occupied by a crew 6

156

00:10:19,870 --> 00:10:17,150

the international station will provide a

157

00:10:21,430 --> 00:10:19,880

precise microgravity environment for the

158

00:10:23,320 --> 00:10:21,440

work which will be conducted in all

159

00:10:26,590 --> 00:10:23,330

disciplines of materials and life

160

00:10:31,570 --> 00:10:26,600

sciences space conquest will have

161

00:10:33,430 --> 00:10:31,580

finally yield space collaboration the

162

00:10:37,150 --> 00:10:33,440

international space station will be the

163

00:10:39,220 --> 00:10:37,160

catalytic action to define a new age an

164

00:10:41,050 --> 00:10:39,230

age where we don't spend billions of

165

00:10:42,850 --> 00:10:41,060

dollars building weapons as we work

166

00:10:44,230 --> 00:10:42,860

together but an age where we work

167

00:10:48,280 --> 00:10:44,240

together to make this planet a better

168

00:10:50,650 --> 00:10:48,290

place we hope that we can answer many

169

00:10:53,320 --> 00:10:50,660

questions we can't answer down on the

170

00:10:55,810 --> 00:10:53,330

earth and 1g for instance that deal with

171

00:10:58,170 --> 00:10:55,820

cell development with how gravity

172

00:11:00,280 --> 00:10:58,180

affects our sense of balance

173

00:11:03,190 --> 00:11:00,290

physiological problems dealing with

174

00:11:06,879 --> 00:11:03,200

osteoporosis or neuro vestibular disease

175

00:11:09,160 --> 00:11:06,889

its crystallization processes

176

00:11:11,229 --> 00:11:09,170

with every part of our electronics

177

00:11:15,069 --> 00:11:11,239

industry and our protein crystal

178

00:11:17,019 --> 00:11:15,079

industry mucukunda loogan with st give

179

00:11:19,689 --> 00:11:17,029

missed you together we'll be able to

180

00:11:21,849 --> 00:11:19,699

achieve faster medical results which are

181

00:11:23,789 --> 00:11:21,859

necessary for the treatment of people on

182

00:11:27,039 --> 00:11:23,799

earth upon individual that is

183

00:11:31,449 --> 00:11:27,049

indispensable that is the new that

184

00:11:33,609 --> 00:11:31,459

is the fruit of joint cooperation no one

185

00:11:37,059 --> 00:11:33,619

could have predicted the scientific

186

00:11:39,970 --> 00:11:37,069

benefits that have occurred with our

187

00:11:42,129 --> 00:11:39,980

limited time and space now with

188

00:11:45,879 --> 00:11:42,139

potential for much greater time in space

189

00:11:48,129 --> 00:11:45,889

I think we can expect some unexpected

190

00:11:51,449 --> 00:11:48,139

discoveries that will have great benefit

191

00:11:53,889 --> 00:11:51,459

to the health of man here on earth you

192

00:11:56,829 --> 00:11:53,899

never know where new knowledge is going

193

00:11:59,439 --> 00:11:56,839

to take you but you also know from past

194

00:12:01,599 --> 00:11:59,449

experience new now as always becomes

195

00:12:03,759 --> 00:12:01,609

useful at some point I mean when

196

00:12:05,679 --> 00:12:03,769

electricity was first developed you know

197

00:12:07,329 --> 00:12:05,689

a couple of centuries ago nobody knew

198

00:12:10,929 --> 00:12:07,339

that we would be using it for an

199

00:12:13,720 --> 00:12:10,939

electric lightbulb we're at the more

200

00:12:16,179 --> 00:12:13,730

subordinate Goff da now that the world

201
00:12:18,100 --> 00:12:16,189
is changing in front of us quite new

202
00:12:20,259 --> 00:12:18,110
relations are being established between

203
00:12:23,169 --> 00:12:20,269
the United States and Russia stop

204
00:12:26,889 --> 00:12:23,179
immunity pls see it turning into new

205
00:12:28,780 --> 00:12:26,899
relations or partners prompting to new

206
00:12:31,960 --> 00:12:28,790
relations which support each other in

207
00:12:34,859 --> 00:12:31,970
each and every field because this cannot

208
00:12:38,470 --> 00:12:34,869
help but affect no operations in space

209
00:12:41,470 --> 00:12:38,480
we are leaving a millennia defined by

210
00:12:44,379 --> 00:12:41,480
conflict and war by inventions of new

211
00:12:46,989 --> 00:12:44,389
weapons and as we enter a new millennia

212
00:12:50,670 --> 00:12:46,999
we have to learn on this very small

213
00:12:53,590 --> 00:12:50,680

planet how to live and work together

214

00:12:55,810 --> 00:12:53,600

sailing in the silent void of space at a

215

00:12:58,090 --> 00:12:55,820

speed of more than five miles a second

216

00:12:59,740 --> 00:12:58,100

men and women will conduct vital

217

00:13:02,440 --> 00:12:59,750

scientific research aboard the

218

00:13:04,570 --> 00:13:02,450

International Space Station occasionally

219

00:13:06,850 --> 00:13:04,580

gazing back at Earth seeing no

220

00:13:10,900 --> 00:13:06,860

boundaries between nations only a

221

00:13:12,910 --> 00:13:10,910

singular home in the universe the

222

00:13:14,590 --> 00:13:12,920

International Space Station will have

223

00:13:17,020 --> 00:13:14,600

been built by humans from diverse

224

00:13:19,690 --> 00:13:17,030

cultures built by people speaking

225

00:13:24,280 --> 00:13:19,700

different languages built by pioneers

226

00:13:27,100 --> 00:13:24,290

possessing a common vision more than 200

227

00:13:30,610 --> 00:13:27,110

miles above our planet the space station

228

00:13:33,990 --> 00:13:30,620

crosses from darkness into daylight it