

WELCOME ABOARD
SOYUZ!



1

00:00:01,439 --> 00:00:06,250

Hi I'm Bill Barry, NASA's Chief Historian.
Every day on the International Space Station,

2

00:00:06,250 --> 00:00:11,690

NASA and our partner nations collaborate above
the Earth at humanity's toehold in space.

3

00:00:11,690 --> 00:00:16,449

As the space station orbits above us every
90 minutes, 16 times a day, its multi-national

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00:00:16,449 --> 00:00:20,470

crew performs important scientific research
Off the Earth, for the Earth.

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00:00:20,470 --> 00:00:25,570

The science conducted on our orbiting laboratory
advances global scientific knowledge about

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00:00:25,570 --> 00:00:30,180

our home planet, as well as space, physical,
and biological sciences.

7

00:00:30,180 --> 00:00:35,250

Today, American astronaut Scott Kelly and
Russian Cosmonaut Mikhail Kornienko are in

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00:00:35,250 --> 00:00:38,949

the midst of a one-year mission aboard the
Space Station that is providing important

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00:00:38,949 --> 00:00:44,289

insight into the effects of microgravity on
human physiology. This information will be

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00:00:44,289 --> 00:00:49,559

critical for preparing humanity for longer
duration missions on NASA's Journey to Mars.

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00:00:49,559 --> 00:00:53,420
This amazing research laboratory continues
the global cooperation that has always been

12
00:00:53,420 --> 00:00:58,810
at the core of NASA's mission. But, 40 years
ago a big breakthrough came when two Cold

13
00:00:58,810 --> 00:01:03,350
War adversaries, the United States and Soviet
Union, joined hands in exploration.

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00:01:03,350 --> 00:01:07,910
Let's take a look back at the first time
these two great space powers flew together

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00:01:07,910 --> 00:01:13,350
– the seeds of cooperation planted then
continue to flourish today.

16
00:01:13,350 --> 00:01:16,500
[Rocket sound]

17
00:01:16,500 --> 00:01:22,321
We were in a position to open a crack in the
door between east and west during the Cold

18
00:01:22,321 --> 00:01:23,321
War.

19
00:01:23,321 --> 00:01:35,570
Apollo Houston I've got two messages for
you. Moscow is go for docking. Houston is

20
00:01:35,570 --> 00:01:40,480
go for docking. It's up to you guys. Have
fun.

21
00:01:40,480 --> 00:01:42,010

All righty sounds good. [Speaking in Russian]...
Alexei.

22
00:01:42,010 --> 00:01:47,060
Mid-July 1975 an American Apollo spacecraft
and the Soviet Soyuz spacecraft prepared to

23
00:01:47,060 --> 00:01:54,550
join in earth orbit, 140 miles above the Atlantic
near Portugal. During their two-day joint

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00:01:54,550 --> 00:02:02,320
flight astronauts and cosmonauts transferred
between spacecraft. They conducted basic experiments

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00:02:02,320 --> 00:02:07,490
and they tested the compatible rendezvous
and docking system. Evaluating its potential

26
00:02:07,490 --> 00:02:13,030
as the universal standard on future spacecraft
for docking and rescue.

27
00:02:13,030 --> 00:02:18,510
The mission climaxed more than three years
of planning and preparation time during which

28
00:02:18,510 --> 00:02:25,670
differences in language, in technology, in
political creed were set aside, in favor of

29
00:02:25,670 --> 00:02:27,830
the common goal.

30
00:02:27,830 --> 00:02:32,750
This was the mission that opened the door
to international manned spaceflight the mission

31
00:02:32,750 --> 00:02:44,240
that set the course for joint applied to the

future. This was the mission of Apollo-Soyuz

32

00:02:44,240 --> 00:02:49,670

[Music]

33

00:02:49,670 --> 00:03:00,120

We should get together the two superpowers
in space but was kinda unique on here each

34

00:03:00,120 --> 00:03:06,370

country had at least 10,000 nuclear weapons
aimed at each other but yet will have a joint

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00:03:06,370 --> 00:03:12,370

cooperation in space

36

00:03:12,370 --> 00:03:13,370

[Music]

37

00:03:13,370 --> 00:03:24,440

This was the peak cold war. Both sides believe
that the other side is the evil enemy.

38

00:03:24,440 --> 00:03:27,070

[Music]

39

00:03:27,070 --> 00:03:37,510

The mission was unique and it was supported
because I think the populations on each side

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00:03:37,510 --> 00:03:42,760

had a desire for the cold war to be over.

41

00:03:42,760 --> 00:03:44,010

[music]

42

00:03:44,010 --> 00:03:50,080

But at that time the relations were not very
good between our countries but that project

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00:03:50,080 --> 00:03:52,630

made us work together.

44

00:03:52,630 --> 00:04:04,060

It was quite a symbolic effort to open relationship between the two countries.

45

00:04:04,060 --> 00:04:05,160

[Music]

46

00:04:05,160 --> 00:04:11,730

Well, we would train together for two years. In fact it was our side that insisted we have

47

00:04:11,730 --> 00:04:17,209

to start two years in advance. The Soviet's system said no of course everything was they

48

00:04:17,209 --> 00:04:27,250

say "Bol'Shoy Sekret" everything was a big secret.

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00:04:27,250 --> 00:04:34,710

Tom Stafford has a Oklahoman pronunciation he's very hard to understand and I think

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00:04:34,710 --> 00:04:40,830

that even his own wife did not understand him very well sometimes.

51

00:04:40,830 --> 00:04:42,870

[Music]

52

00:04:42,870 --> 00:04:47,740

We had a lot of fun everybody, cause made mistakes in the other language and in some

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00:04:47,740 --> 00:04:57,640

cases it's a like learning, listening to a three-year-old trying to get better in English.

54
00:04:57,640 --> 00:05:03,340
So we made mistakes everybody got a lot of laughs out of that.

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00:05:03,340 --> 00:05:14,310
We learned to understand each other and we spoke the language that we named "Russton"

56
00:05:14,310 --> 00:05:27,900
that is a Russian in Houston and so eventually were able to overcome the

57
00:05:27,900 --> 00:05:29,270
language barrier.

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00:05:29,270 --> 00:05:41,770
Deke Slayton was a wonderful person, one of the original Mercury 7 astronauts and due

59
00:05:41,770 --> 00:05:46,770
to medical problems was taken of a flight where he was supposed to fly the second the

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00:05:46,770 --> 00:05:52,990
orbital missions for the United States, then he was head of the astronaut group, he was

61
00:05:52,990 --> 00:05:57,240
my boss for many years. Apollo commander, he was on the crew wonderful person did a

62
00:05:57,240 --> 00:06:03,639
great job and he finally got a chance to fly in space.

63
00:06:03,639 --> 00:06:09,080
ADD TEXT/PHOTO: 1924-1993

64
00:06:09,080 --> 00:06:13,190
It was really wonderful after we train in
the mockups, simulators, back and forth, two

65
00:06:13,190 --> 00:06:16,900
years to finally, they launch from Kazakhstan.

66
00:06:16,900 --> 00:06:18,070
[Music]

67
00:06:18,070 --> 00:06:33,170
Back and then seven and a half hours later
when the orbit came across the cape we launch,

68
00:06:33,170 --> 00:06:38,630
two days of phasing and catch up and final
rendezvous and docking.

69
00:06:38,630 --> 00:06:39,630
Ok

70
00:06:39,630 --> 00:06:46,600
This is Apollo Control apparently the TPI
maneuver was successful Tom Stafford reported

71
00:06:46,600 --> 00:06:50,800
from Apollo that he was stationed.

72
00:06:50,800 --> 00:06:55,440
Both control centers Moscow and Houston have
given a go for docking.

73
00:06:55,440 --> 00:06:59,630
Soyuz Apollo I read you 5 by 5

74
00:06:59,630 --> 00:07:05,130
That's what made it easier for us to communicate
with our US counterparts because we're professionals

75
00:07:05,130 --> 00:07:11,110
speaking the same professional language at
this that helped us build a trust as well.

76
00:07:11,110 --> 00:07:23,130
And please don't forget about your engines...

77
00:07:23,130 --> 00:07:31,710
Less than five meters distance

78
00:07:31,710 --> 00:07:35,150
Three meters...

79
00:07:35,150 --> 00:07:38,580
One meter...

80
00:07:38,580 --> 00:07:42,009
Stand by...

81
00:07:42,009 --> 00:07:43,729
Contact...capture...

82
00:07:43,729 --> 00:07:58,050
I knocked on the hatch. I heard him knock
back, and I said in Russian [Speaking Russian]

83
00:07:58,050 --> 00:08:10,270
like "who's there?". Like you know 140
miles up who else could it be? [Speaking Russian]

84
00:08:10,270 --> 00:08:12,560
It'll stay open

85
00:08:12,560 --> 00:08:19,320
Ok turn on the camera, hit the remote...

86
00:08:19,320 --> 00:08:29,199

It was really the handshake, which symbolized potential lifting of tension in the cold war

87

00:08:29,199 --> 00:08:30,199
and friendship.

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00:08:30,199 --> 00:08:40,080
They are joined in space, served for the benefit of all countries and peoples on the Earth.

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00:08:40,080 --> 00:08:51,890
Alexei is a great artist and during those two days he sketched in black and white two

90

00:08:51,890 --> 00:08:58,730
pictures of me, and he gave them to me and I have them very proudly framed in my house

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00:08:58,730 --> 00:09:09,170
and they will be going into a museum.

92

00:09:09,170 --> 00:09:24,620
Before flight I prepared stickers labeled for Stolli Vodka, Moscow Vodka, etc I am took,

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00:09:24,620 --> 00:09:32,020
containers with coffee with borscht and applied those labels on those containers and so when

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00:09:32,020 --> 00:09:40,190
we sat down to eat in the vehicle. According to the Russian tradition we must celebrate

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00:09:40,190 --> 00:09:47,540
our first meeting so they were very uncomfortable but they went ahead and opened the containers

96

00:09:47,540 --> 00:09:52,910
and said let's have a drink to our first meeting and once they started drinking they

97
00:09:52,910 --> 00:10:01,230
realized that this was borscht that's what
was in the containers and then everybody was

98
00:10:01,230 --> 00:10:06,870
disappointed actually.

99
00:10:06,870 --> 00:10:11,740
After two days you know we docked. Spent two
days together, undocked, re-docked, did a

100
00:10:11,740 --> 00:10:18,350
test. Then finally undocked and slowly started
drifting off away about 30-40 miles apart.

101
00:10:18,350 --> 00:10:25,880
We start receiving the signal from Apollo
and I listening to music and I hear some women

102
00:10:25,880 --> 00:10:33,990
laughing and I can hear some glasses clinking.
I Press the transmit button and ask what's

103
00:10:33,990 --> 00:10:39,790
going on? And they're saying "oh we're having
a party over here we're done working so we

104
00:10:39,790 --> 00:10:47,050
are partying" turns out that they recorded
all this noise, all this sounds while still

105
00:10:47,050 --> 00:10:54,310
on earth and then played it back to pretend
that they had a party.

106
00:10:54,310 --> 00:10:58,630
The friendship that's lasted very dearly all
these years I consider

107

00:10:58,630 --> 00:11:05,970

General Alexei Leonov like a brother to me, practically.

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00:11:05,970 --> 00:11:10,800

And what we do today on the International Space Station and the type a working groups

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00:11:10,800 --> 00:11:16,839

we have, and how we have approach things is all based what worked out on Apollo-Soyuz

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00:11:16,839 --> 00:11:17,839

starting from scratch.

111

00:11:17,839 --> 00:11:27,330

It was a soft docking it was a good show they are looking forward now.

112

00:11:27,330 --> 00:11:32,930

I'm rather proud of what the whole team accomplished that kinda opened the gate to

113

00:11:32,930 --> 00:11:36,029

go forward with international cooperation and exploration.

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00:11:36,029 --> 00:11:38,610

Houston Endeavor we have captured Zarya.

115

00:11:38,610 --> 00:11:43,800

Don't think it's over. It's just starting.

116

00:11:43,800 --> 00:11:48,840

It was a first, 40 years ago, and this tradition would be continued on the Space Shuttle, on

117

00:11:48,840 --> 00:11:54,110

MIR, and today on the International Space

Station. The successful Apollo-Soyuz Test

118

00:11:54,110 --> 00:11:59,360

Project demonstrated how much was possible through international partnerships.

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00:11:59,360 --> 00:12:03,200

As we move from the International Space Station in low-Earth orbit, outward to the vicinity

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00:12:03,200 --> 00:12:08,279

of the Moon, and visit asteroids we'll continue learning the skills and technology that will

121

00:12:08,279 --> 00:12:12,769

enable our Journey to Mars. There is one lesson we already know – and we learned just how