



РОСКОСМОС

СОЮЗ
MS

70 лет
ЭНЕРГИЯ



РОСКОСМОС



ЭНЕРГИЯ

1
00:00:09,440 --> 00:00:19,429
come on

2
00:00:19,439 --> 00:00:35,430
oh

3
00:00:35,440 --> 00:01:45,830
so

4
00:01:45,840 --> 00:02:05,350
oh

5
00:02:05,360 --> 00:02:23,830
foreign

6
00:02:23,840 --> 00:03:03,509
so

7
00:03:03,519 --> 00:03:41,030
we

8
00:03:41,040 --> 00:03:46,149
let's enjoy it

9
00:03:46,159 --> 00:04:19,590
um

10
00:04:19,600 --> 00:05:07,110
oh

11
00:05:07,120 --> 00:05:19,909
me

12
00:05:19,919 --> 00:05:50,230
oh

13
00:05:50,240 --> 00:06:02,469

please

14

00:06:07,110 --> 00:06:04,230

sean fuller nasa's director of human

15

00:06:08,790 --> 00:06:07,120

space flight operations in russia sean

16

00:06:10,550 --> 00:06:08,800

soyuz vehicle

17

00:06:13,029 --> 00:06:10,560

may look the same from the outside here

18

00:06:15,270 --> 00:06:13,039

in baikonur but fundamentally different

19

00:06:17,749 --> 00:06:15,280

talk a little bit about the upgrades the

20

00:06:19,029 --> 00:06:17,759

changes that for this modernized systems

21

00:06:20,870 --> 00:06:19,039

vehicle that's about to make its first

22

00:06:22,230 --> 00:06:20,880

flight yeah rob we've got a beautiful

23

00:06:23,909 --> 00:06:22,240

vehicle here behind us they've been

24

00:06:25,270 --> 00:06:23,919

working and processing for the last

25

00:06:27,270 --> 00:06:25,280

several weeks getting ready for the

26

00:06:29,029 --> 00:06:27,280

launch coming up in a few days it does

27

00:06:30,230 --> 00:06:29,039

look similar on the outside there are

28

00:06:31,990 --> 00:06:30,240

some incremental changes that have

29

00:06:34,629 --> 00:06:32,000

happened on the inside with regards to

30

00:06:36,230 --> 00:06:34,639

the communication system the navigation

31

00:06:37,990 --> 00:06:36,240

system and the docking system all

32

00:06:40,150 --> 00:06:38,000

upgrades that they take is a steady pace

33

00:06:41,909 --> 00:06:40,160

along the way along the progress vehicle

34

00:06:43,990 --> 00:06:41,919

to make sure it's ready for uh the

35

00:06:45,590 --> 00:06:44,000

implementation on the soyuz now we have

36

00:06:48,230 --> 00:06:45,600

the soyuz rocket upgraded to what we

37

00:06:50,390 --> 00:06:48,240

refer to the as the ms vehicle ready for

38

00:06:52,629 --> 00:06:50,400

its maiden flight here in a few days

39

00:06:54,790 --> 00:06:52,639

you know the program never affords a

40

00:06:56,629 --> 00:06:54,800

crew a dull moment and uh the next few

41

00:06:59,270 --> 00:06:56,639

months for kate rubins and her crew will

42

00:07:01,430 --> 00:06:59,280

be no different talk a little bit about

43

00:07:03,909 --> 00:07:01,440

what the next few months hold in terms

44

00:07:06,309 --> 00:07:03,919

of critical milestones for the program

45

00:07:08,469 --> 00:07:06,319

yeah that's right rob jeff alexey and

46

00:07:10,629 --> 00:07:08,479

oleg are on orbit waiting uh the arrival

47

00:07:12,550 --> 00:07:10,639

of anatoly kate and talk as they come up

48

00:07:14,390 --> 00:07:12,560

they'll be getting right in the saddle

49

00:07:16,550 --> 00:07:14,400

jumping into it we've got a few vehicles

50

00:07:18,309 --> 00:07:16,560

coming right away with progress as well

51
00:07:20,309 --> 00:07:18,319
as a spacex that'll entail uh some

52
00:07:22,230 --> 00:07:20,319
activities uh arrival of critical

53
00:07:24,790 --> 00:07:22,240
science equipment they're always have a

54
00:07:27,510 --> 00:07:24,800
very busy schedule research coming up as

55
00:07:28,950 --> 00:07:27,520
well as a docking adapter that'll enable

56
00:07:30,790 --> 00:07:28,960
us to bring the commercial crew vehicles

57
00:07:32,550 --> 00:07:30,800
up here in the next couple of years so

58
00:07:34,950 --> 00:07:32,560
that'll be arriving on a spacex vehicle

59
00:07:36,550 --> 00:07:34,960
entail an eva or two to get that

60
00:07:38,629 --> 00:07:36,560
installed on the space station a little

61
00:07:40,150 --> 00:07:38,639
bit later we'll be in the htv cargo

62
00:07:42,150 --> 00:07:40,160
craft will come up with the new

63
00:07:44,390 --> 00:07:42,160

batteries for our power system as we

64

00:07:48,869 --> 00:07:44,400

upgrade that to enable us to go farther

65

00:07:53,110 --> 00:07:51,589

expedition 4849 backup crew member peggy

66

00:07:55,029 --> 00:07:53,120

whitson peggy

67

00:07:57,430 --> 00:07:55,039

it's like old times for you to be back

68

00:08:00,550 --> 00:07:57,440

in baikonur your thoughts

69

00:08:03,029 --> 00:08:00,560

about the upcoming launch a new upgraded

70

00:08:05,350 --> 00:08:03,039

vehicle for soyuz and most importantly

71

00:08:07,510 --> 00:08:05,360

kate rubin's level of preparedness well

72

00:08:09,589 --> 00:08:07,520

we have a fantastic training program and

73

00:08:11,430 --> 00:08:09,599

kate's an exceptionally talented person

74

00:08:13,430 --> 00:08:11,440

so i know she's ready to go she's

75

00:08:15,430 --> 00:08:13,440

excited about it

76

00:08:18,070 --> 00:08:15,440

we've been in baikonur here for a couple

77

00:08:21,270 --> 00:08:18,080

of weeks getting ready uh on the final

78

00:08:23,909 --> 00:08:21,280

stages and she's she's ready to go

79

00:08:25,990 --> 00:08:23,919

being back here is very special you know

80

00:08:27,670 --> 00:08:26,000

some things have changed but many of the

81

00:08:29,430 --> 00:08:27,680

traditions and

82

00:08:31,029 --> 00:08:29,440

are all the same and so it's always a

83

00:08:32,949 --> 00:08:31,039

pleasure to be back here

84

00:08:34,790 --> 00:08:32,959

and go through the process again

85

00:08:36,469 --> 00:08:34,800

obviously because it means i'm one step

86

00:08:38,230 --> 00:08:36,479

closer to being

87

00:08:39,829 --> 00:08:38,240

the next one around

88

00:08:41,909 --> 00:08:39,839

research is the name of the game up on

89

00:08:43,589 --> 00:08:41,919

the international space station you're a

90

00:08:46,150 --> 00:08:43,599

researcher kate

91

00:08:48,310 --> 00:08:46,160

molecular biologist she is going to be

92

00:08:49,910 --> 00:08:48,320

knee deep in research up there

93

00:08:51,350 --> 00:08:49,920

how what does she bring to the table up

94

00:08:53,910 --> 00:08:51,360

there for the next several months on

95

00:08:56,630 --> 00:08:53,920

orbit once she gets there well kate has

96

00:08:58,949 --> 00:08:56,640

a lot of hands-on research experience

97

00:09:00,710 --> 00:08:58,959

which is great when you're doing lots of

98

00:09:02,949 --> 00:09:00,720

different people's research it's good to

99

00:09:04,949 --> 00:09:02,959

have laboratory hands to be able to

100

00:09:07,350 --> 00:09:04,959

handle different types of things

