



1
00:00:09,920 --> 00:00:16,550

hey

2
00:00:16,560 --> 00:00:27,189

t-minus 30 seconds and counting

3
00:00:32,709 --> 00:00:28,790

t-minus 20 seconds and counting the

4
00:00:37,270 --> 00:00:34,630

t-minus 15 seconds and counting the

5
00:00:39,350 --> 00:00:37,280

second umbilical tower is now separating

6
00:00:40,229 --> 00:00:39,360

t minus 10 9

7
00:00:41,110 --> 00:00:40,239

8

8
00:00:42,150 --> 00:00:41,120

7

9
00:00:43,030 --> 00:00:42,160

6

10
00:00:43,990 --> 00:00:43,040

5

11
00:00:45,029 --> 00:00:44,000

four

12
00:00:45,910 --> 00:00:45,039

three

13
00:00:50,389 --> 00:00:45,920

two

14

00:00:56,950 --> 00:00:53,670

lift off lift off to the soyuz trma22

15

00:00:59,029 --> 00:00:56,960

with dan burbank anton shkaplerov

16

00:01:00,709 --> 00:00:59,039

and anatoly ivanishin as they head for

17

00:01:07,350 --> 00:01:00,719

the international space station due for

18

00:01:11,030 --> 00:01:09,350

visiting vehicle officer reporting good

19

00:01:13,350 --> 00:01:11,040

first stage performance the soyuz

20

00:01:16,149 --> 00:01:13,360

delivering 102 tons of thrust from its

21

00:01:17,590 --> 00:01:16,159

four boosters in single engine

22

00:01:38,230 --> 00:01:17,600

stage

23

00:01:46,149 --> 00:01:39,830

one minute into the flight all system is

24

00:01:49,670 --> 00:01:48,069

the vehicle is stable there's our first

25

00:01:52,389 --> 00:01:49,680

live view of dan burbank there sitting

26

00:01:54,469 --> 00:01:52,399

in the right seat of the soyuz

27

00:01:57,030 --> 00:01:54,479

anton shkaplerov there in the middle he

28

00:01:59,510 --> 00:01:57,040

is the commander of this vehicle

29

00:02:01,670 --> 00:01:59,520

and just to the right of frame is

30

00:02:03,190 --> 00:02:01,680

ivanishin all three crew members

31

00:02:04,789 --> 00:02:03,200

continuing to watch over the procedures

32

00:02:13,430 --> 00:02:04,799

and watch the performance of the vehicle

33

00:02:18,070 --> 00:02:15,670

the flight controllers continue to

34

00:02:24,229 --> 00:02:18,080

confirm that the soyuz is flying true

35

00:02:27,830 --> 00:02:25,750

inside the international space station

36

00:02:29,910 --> 00:02:27,840

mike fossum sergey volkov and satoshi

37

00:02:32,550 --> 00:02:29,920

furukawa are watching inside the destiny

38

00:02:36,710 --> 00:02:35,190

as their fellow expedition 29 colleagues

39

00:02:38,150 --> 00:02:36,720

head up toward the international space

40

00:02:39,190 --> 00:02:38,160

station they'll be docking with orbiting

41

00:02:44,630 --> 00:02:39,200

complex

42

00:02:49,910 --> 00:02:47,670

stage 3 thrusters are off

43

00:02:53,030 --> 00:02:49,920

separation confirmed confirmation of

44

00:02:55,030 --> 00:02:53,040

third stage separation

45

00:02:57,750 --> 00:02:55,040

and as you can see from the

46

00:03:02,309 --> 00:02:57,760

angry bird floating up above shkaplerov

47

00:03:10,070 --> 00:03:05,430

i am

48

00:03:10,080 --> 00:05:53,909

have a good flight

49

00:05:57,909 --> 00:05:55,990

mike sufferdini international space

50

00:05:59,430 --> 00:05:57,919

station program manager we are not at

51
00:06:02,070 --> 00:05:59,440
the north pole

52
00:06:04,790 --> 00:06:02,080
uh but um what a moment a milestone

53
00:06:07,830 --> 00:06:04,800
moment um your thoughts

54
00:06:09,510 --> 00:06:07,840
as uh manned soyuz missions are back in

55
00:06:11,510 --> 00:06:09,520
business

56
00:06:14,309 --> 00:06:11,520
uh i'm looking forward to getting this

57
00:06:15,830 --> 00:06:14,319
crew on orbit and getting ourselves in a

58
00:06:17,670 --> 00:06:15,840
posture to accept the next crew get

59
00:06:21,270 --> 00:06:17,680
ourselves back up to six

60
00:06:22,950 --> 00:06:21,280
and get on with utilization so it's uh

61
00:06:24,230 --> 00:06:22,960
it's an exciting moment for sure for the

62
00:06:25,749 --> 00:06:24,240
program

63
00:06:27,270 --> 00:06:25,759

you know the

64

00:06:29,430 --> 00:06:27,280

it's been three months since the

65

00:06:30,230 --> 00:06:29,440

progress accident

66

00:06:32,469 --> 00:06:30,240

that

67

00:06:35,189 --> 00:06:32,479

changed the plans and changed the launch

68

00:06:37,830 --> 00:06:35,199

schedules and by our standards in the

69

00:06:39,670 --> 00:06:37,840

united states uh this weather would be

70

00:06:41,990 --> 00:06:39,680

almost unheard of to even think about a

71

00:06:43,909 --> 00:06:42,000

launch but for the russians it's almost

72

00:06:45,749 --> 00:06:43,919

normal can you tell us a little bit

73

00:06:47,430 --> 00:06:45,759

about your thoughts as the weather

74

00:06:48,710 --> 00:06:47,440

deteriorated today but the countdown

75

00:06:50,550 --> 00:06:48,720

progressed

76

00:06:52,070 --> 00:06:50,560

yeah our russian colleagues

77

00:06:53,990 --> 00:06:52,080

have been in this business of

78

00:06:55,510 --> 00:06:54,000

long-duration space flight for for a

79

00:06:57,029 --> 00:06:55,520

good while and one thing they know for

80

00:06:59,510 --> 00:06:57,039

sure is you got to build vehicles that

81

00:07:00,790 --> 00:06:59,520

are robust can fly in any weather

82

00:07:02,950 --> 00:07:00,800

because

83

00:07:05,510 --> 00:07:02,960

they take the view that it is critical

84

00:07:07,430 --> 00:07:05,520

to keep the supplies running to to the

85

00:07:08,150 --> 00:07:07,440

vehicle on orbit including the crews and

86

00:07:12,950 --> 00:07:08,160

so

87

00:07:14,710 --> 00:07:12,960

vehicle to be able to

88

00:07:16,230 --> 00:07:14,720

to stand the weather conditions they

89

00:07:17,029 --> 00:07:16,240

might see out here in viking or of

90

00:07:19,189 --> 00:07:17,039

course

91

00:07:20,870 --> 00:07:19,199

while this is interesting to you and i

92

00:07:22,629 --> 00:07:20,880

uh or unique to you and i because we

93

00:07:24,870 --> 00:07:22,639

live in houston this is the kind of

94

00:07:26,150 --> 00:07:24,880

weather they see out here in the desert

95

00:07:29,830 --> 00:07:26,160

and

96

00:07:33,110 --> 00:07:29,840

vehicle

97

00:07:35,749 --> 00:07:33,120

many years

98

00:07:37,830 --> 00:07:35,759

of flight time on this vehicle

99

00:07:39,830 --> 00:07:37,840

they've evolved it over years but

100

00:07:41,510 --> 00:07:39,840

haven't made major changes to it and

101
00:07:43,350 --> 00:07:41,520
that's why they're able to

102
00:07:45,029 --> 00:07:43,360
quickly solve a problem and get it back

103
00:07:46,710 --> 00:07:45,039
to flying and why on days like today

104
00:07:47,749 --> 00:07:46,720
when it's snowing outside we can still

105
00:07:51,510 --> 00:07:47,759
launch

106
00:07:53,670 --> 00:07:51,520
terms of the russians aggressively

107
00:07:55,510 --> 00:07:53,680
tackling the problem that occurred back

108
00:07:57,830 --> 00:07:55,520
in august getting back to flying and

109
00:08:00,150 --> 00:07:57,840
getting back into a posture where the

110
00:08:02,790 --> 00:08:00,160
station shortly will be in steady state

111
00:08:04,309 --> 00:08:02,800
six man operations again very critical

112
00:08:06,469 --> 00:08:04,319
as we all know we've talked about a lot

113
00:08:07,830 --> 00:08:06,479

since shuttle retired is this is this is

114

00:08:10,070 --> 00:08:07,840

the only way we can get people to and

115

00:08:11,350 --> 00:08:10,080

from space station for a while and we

116

00:08:12,950 --> 00:08:11,360

need to have the people on board in

117

00:08:14,629 --> 00:08:12,960

order to do the research and maintain

118

00:08:33,110 --> 00:08:14,639

the vehicle so this is a critical launch

119

00:08:33,120 --> 00:08:42,149

from

120

00:08:42,159 --> 00:09:31,670

um

121

00:09:47,750 --> 00:09:33,750

god bless you god help you on your

122

00:09:47,760 --> 00:10:28,870

is

123

00:10:28,880 --> 00:10:44,949

oh

124

00:10:44,959 --> 00:11:24,069

thank foreign

125

00:11:24,079 --> 00:11:52,310

so

126
00:11:52,320 --> 00:12:10,310
all right

127
00:12:10,320 --> 00:12:28,949
um

128
00:12:28,959 --> 00:12:46,790
foreign

129
00:12:46,800 --> 00:12:52,069
okay

130
00:12:52,079 --> 00:13:06,550
huh

131
00:13:06,560 --> 00:13:23,110
uh

132
00:13:23,120 --> 00:13:46,069
crazy

133
00:13:46,079 --> 00:14:00,550
time

134
00:14:00,560 --> 00:15:17,590
okay

135
00:15:17,600 --> 00:15:46,870
so

136
00:15:46,880 --> 00:15:59,189
um

137
00:15:59,199 --> 00:16:19,590
yes

138
00:16:19,600 --> 00:16:44,870

uh

139

00:16:44,880 --> 00:16:50,710

foreign

140

00:16:50,720 --> 00:17:38,150

oh

141

00:17:38,160 --> 00:17:52,549

what

142

00:17:52,559 --> 00:18:13,750

oh my gosh

143

00:18:13,760 --> 00:18:41,430

i

144

00:18:41,440 --> 00:19:02,070

thank you