



1  
00:00:07,120 --> 00:00:10,629  
this week at nasa

2  
00:00:15,669 --> 00:00:12,950  
appearing to be in excellent shape soyuz

3  
00:00:18,470 --> 00:00:15,679  
commander alexander schwarzoff back on

4  
00:00:21,189 --> 00:00:18,480  
earth after almost six months aboard the

5  
00:00:24,390 --> 00:00:21,199  
international space station expedition

6  
00:00:26,390 --> 00:00:24,400  
24 soyuz commander alexander schwarzoff

7  
00:00:28,550 --> 00:00:26,400  
nasa flight engineer tracy caldwell

8  
00:00:31,509 --> 00:00:28,560  
dyson and russian flight engineer

9  
00:00:34,389 --> 00:00:31,519  
mikhail konyenko are back on earth

10  
00:00:37,910 --> 00:00:34,399  
the trio of explorers made a safe return

11  
00:00:39,670 --> 00:00:37,920  
in the soyuz tma-18 spacecraft landing

12  
00:00:42,150 --> 00:00:39,680  
in southern kazakhstan

13  
00:00:44,310 --> 00:00:42,160

their flight home was delayed a day when

14

00:00:46,389 --> 00:00:44,320

a malfunctioning docking mechanism

15

00:00:48,229 --> 00:00:46,399

wouldn't allow their vehicle to separate

16

00:00:50,470 --> 00:00:48,239

safely from the station

17

00:00:53,029 --> 00:00:50,480

their replacements soyuz commander

18

00:00:55,990 --> 00:00:53,039

cosmonaut alexander kaleri flight

19

00:00:58,630 --> 00:00:56,000

engineer cosmonaut oleg skopochka an

20

00:01:01,510 --> 00:00:58,640

expedition 25 flight engineer expedition

21

00:01:03,830 --> 00:01:01,520

26 commander scott kelly are scheduled

22

00:01:06,550 --> 00:01:03,840

to launch aboard a soyuz spacecraft from

23

00:01:07,990 --> 00:01:06,560

the baikonur cosmodrome in kazakhstan on

24

00:01:10,390 --> 00:01:08,000

october 7th

25

00:01:12,950 --> 00:01:10,400

they'll join expedition 25 commander

26  
00:01:15,670 --> 00:01:12,960  
astronaut doug wheelock flight engineer

27  
00:01:17,670 --> 00:01:15,680  
astronaut shannon walker and cosmonaut

28  
00:01:22,310 --> 00:01:17,680  
fyodor yurchikhin who have been aboard

29  
00:01:28,630 --> 00:01:25,030  
veteran astronauts chris ferguson doug

30  
00:01:30,670 --> 00:01:28,640  
hurley sandy magnus and rex walheim will

31  
00:01:32,310 --> 00:01:30,680  
make up the crew of

32  
00:01:35,230 --> 00:01:32,320  
sts-335

33  
00:01:37,990 --> 00:01:35,240  
the mission will fly only if members of

34  
00:01:41,670 --> 00:01:38,000  
sts-134 aboard space shuttle endeavour

35  
00:01:43,670 --> 00:01:41,680  
would need to be rescued sts-134

36  
00:01:45,910 --> 00:01:43,680  
is the last scheduled shuttle mission to

37  
00:01:48,870 --> 00:01:45,920  
the international space station since

38  
00:01:51,429 --> 00:01:48,880

the loss of colombia in 2003

39

00:01:53,590 --> 00:01:51,439

nasa has had a crew ready to fly if a

40

00:01:54,469 --> 00:01:53,600

shuttle suffers irreparable damage in

41

00:01:55,149 --> 00:01:54,479

orbit

42

00:01:57,749 --> 00:01:55,159

the

43

00:02:00,550 --> 00:01:57,759

sts-335 crew will not only train for

44

00:02:02,550 --> 00:02:00,560

rescue but will also stand ready in case

45

00:02:05,950 --> 00:02:02,560

a new shuttle mission is added to the

46

00:02:10,550 --> 00:02:05,960

launch manifest if that happens

47

00:02:12,630 --> 00:02:10,560

sts-335 would be redesignated sts-135

48

00:02:18,070 --> 00:02:12,640

and would be targeted to launch in june

49

00:02:22,630 --> 00:02:19,190

and now

50

00:02:26,309 --> 00:02:24,630

preparations continue for the next space

51  
00:02:27,790 --> 00:02:26,319  
shuttle mission to the international

52  
00:02:29,589 --> 00:02:27,800  
space station

53  
00:02:31,589 --> 00:02:29,599  
sts-133

54  
00:02:33,910 --> 00:02:31,599  
space shuttle discovery is now at launch

55  
00:02:36,790 --> 00:02:33,920  
pad 39a at the kennedy space center in

56  
00:02:39,390 --> 00:02:36,800  
florida following its move or rollout

57  
00:02:42,150 --> 00:02:39,400  
from the vehicle assembly building

58  
00:02:44,390 --> 00:02:42,160  
sts-133 is the next to last scheduled

59  
00:02:46,949 --> 00:02:44,400  
shuttle mission and the final flight of

60  
00:02:49,030 --> 00:02:46,959  
discovery before it's retired

61  
00:02:51,430 --> 00:02:49,040  
the orbiter and its six-member crew

62  
00:02:53,670 --> 00:02:51,440  
commanded by steve lindsey will carry to

63  
00:02:56,630 --> 00:02:53,680

the station the permanent multi-purpose

64

00:02:58,790 --> 00:02:56,640

module or pmm packed with supplies and

65

00:03:01,430 --> 00:02:58,800

critical spare parts as well as the

66

00:03:02,309 --> 00:03:01,440

first human-like robot in space robonaut

67

00:03:04,229 --> 00:03:02,319

2.

68

00:03:07,830 --> 00:03:04,239

discovery is targeted to launch on

69

00:03:11,990 --> 00:03:09,910

looking from behind glass into a

70

00:03:15,190 --> 00:03:12,000

controlled atmosphere clean room at the

71

00:03:17,670 --> 00:03:15,200

jet propulsion laboratory invited media

72

00:03:20,790 --> 00:03:17,680

satisfied their curiosity about

73

00:03:22,630 --> 00:03:20,800

curiosity the next mars rover

74

00:03:25,670 --> 00:03:22,640

along with other elements of the mars

75

00:03:28,390 --> 00:03:25,680

science laboratory spacecraft curiosity

76

00:03:31,110 --> 00:03:28,400

has been undergoing tests inside jpl's

77

00:03:33,670 --> 00:03:31,120

spacecraft assembly facility driving

78

00:03:35,589 --> 00:03:33,680

short distances and moving its robotic

79

00:03:37,990 --> 00:03:35,599

arm now just about everything you see on

80

00:03:39,589 --> 00:03:38,000

the mobility system looks black but that

81

00:03:41,110 --> 00:03:39,599

doesn't mean it's all the same material

82

00:03:42,630 --> 00:03:41,120

the tubes the suspension arms coming

83

00:03:45,030 --> 00:03:42,640

down to the wheels those are all

84

00:03:47,589 --> 00:03:45,040

titanium the tires themselves those are

85

00:03:49,270 --> 00:03:47,599

aluminum the shell on those tires is

86

00:03:50,949 --> 00:03:49,280

actually a piece of machined aluminum

87

00:03:52,789 --> 00:03:50,959

that's about 30 thousandths of an inch

88

00:03:54,470 --> 00:03:52,799

thick it's about the thickness of seven

89

00:03:56,630 --> 00:03:54,480

pieces of paper

90

00:03:59,429 --> 00:03:56,640

and when they're that thin it makes them

91

00:04:01,270 --> 00:03:59,439

actually soft so they behave in much the

92

00:04:02,789 --> 00:04:01,280

way that a rubber tire would behave this

93

00:04:04,630 --> 00:04:02,799

test was sort of an obstacle course for

94

00:04:06,630 --> 00:04:04,640

the rover because we have to drive over

95

00:04:08,229 --> 00:04:06,640

obstacles of certain heights and those

96

00:04:09,509 --> 00:04:08,239

correspond to rocks at certain heights

97

00:04:11,589 --> 00:04:09,519

that we expect to see on the surface of

98

00:04:13,110 --> 00:04:11,599

mars so those ramps we're mimicking

99

00:04:14,470 --> 00:04:13,120

those rocks to make sure that we can

100

00:04:15,350 --> 00:04:14,480

actually drive over them and get to the

101

00:04:17,749 --> 00:04:15,360

science

102

00:04:22,150 --> 00:04:17,759

msl and its rover are scheduled to

103

00:04:26,629 --> 00:04:24,550

ames and marshall were among the nasa

104

00:04:29,430 --> 00:04:26,639

centers hosting a celebration of

105

00:04:31,510 --> 00:04:29,440

international observe the moon night

106

00:04:33,110 --> 00:04:31,520

center guests viewed the moon and other

107

00:04:35,909 --> 00:04:33,120

celestial objects through large

108

00:04:38,230 --> 00:04:35,919

telescopes guided by local astronomical

109

00:04:40,950 --> 00:04:38,240

groups and visitors enjoyed several

110

00:04:43,350 --> 00:04:40,960

hands-on games and activities including

111

00:04:46,390 --> 00:04:43,360

an inflatable planetarium to learn more

112

00:04:48,550 --> 00:04:46,400

about the stars moon and planets

113

00:04:50,469 --> 00:04:48,560

nasa scientists also talked about the

114

00:04:52,390 --> 00:04:50,479

presence of water on the moon and

115

00:04:53,909 --> 00:04:52,400

upcoming missions to our nearest

116

00:04:56,469 --> 00:04:53,919

neighbor in space

117

00:04:59,030 --> 00:04:56,479

international observe the moon night was

118

00:05:00,870 --> 00:04:59,040

celebrated in more than 30 countries

119

00:05:03,430 --> 00:05:00,880

worldwide

120

00:05:06,070 --> 00:05:03,440

and that's this week at nasa