



Spaceto**Ground**

1
00:00:07,110 --> 00:00:05,030
houston station on space to ground

2
00:00:09,350 --> 00:00:07,120
welcome to space to ground i'm kayla

3
00:00:11,350 --> 00:00:09,360
lafrance this week the crew on the

4
00:00:13,589 --> 00:00:11,360
international space station remained

5
00:00:16,150 --> 00:00:13,599
focused on science while awaiting new

6
00:00:18,630 --> 00:00:16,160
arrivals

7
00:00:20,870 --> 00:00:18,640
cosmos will be launching the uncrewed

8
00:00:24,150 --> 00:00:20,880
progress 80 mission to the orbiting

9
00:00:26,630 --> 00:00:24,160
outpost the progress ms-19 cargo

10
00:00:28,710 --> 00:00:26,640
spacecraft is set to launch on monday

11
00:00:31,509 --> 00:00:28,720
february 14th from the baikonur

12
00:00:33,750 --> 00:00:31,519
cosmodrome in kazakhstan the progress

13
00:00:35,910 --> 00:00:33,760

spacecraft will then spend the next few

14

00:00:37,910 --> 00:00:35,920

days in orbit catching up to the space

15

00:00:41,910 --> 00:00:37,920

station where it will dock on thursday

16

00:00:44,790 --> 00:00:41,920

february 17th at 2 am eastern progress

17

00:00:47,670 --> 00:00:44,800

ms-19 will automatically dock to the

18

00:00:50,189 --> 00:00:47,680

xena port of the poisk module it is

19

00:00:54,389 --> 00:00:50,199

currently planned to stay docked for

20

00:00:57,350 --> 00:00:54,399

196 days supporting both expedition 66

21

00:00:59,110 --> 00:00:57,360

and expedition 67 missions aboard the

22

00:01:00,470 --> 00:00:59,120

iss

23

00:01:02,950 --> 00:01:00,480

this week on board the orbiting

24

00:01:05,429 --> 00:01:02,960

laboratory matheus mauer teamed up with

25

00:01:08,310 --> 00:01:05,439

his crewmate mark vandehei to work on

26
00:01:11,030 --> 00:01:08,320
the european space agency's experiment

27
00:01:13,590 --> 00:01:11,040
to develop acoustic tweezers

28
00:01:16,390 --> 00:01:13,600
the duo conducted several experiment

29
00:01:19,270 --> 00:01:16,400
scenarios for the ultrasonic tweezer

30
00:01:21,670 --> 00:01:19,280
experiment to evaluate the possibility

31
00:01:24,149 --> 00:01:21,680
of trapping various objects either

32
00:01:27,190 --> 00:01:24,159
single objects or multiple objects in

33
00:01:30,230 --> 00:01:27,200
the acoustic field the objective of the

34
00:01:33,030 --> 00:01:30,240
ultrasonic tweezer project is to develop

35
00:01:35,749 --> 00:01:33,040
acoustic tweezers that use sound to

36
00:01:38,149 --> 00:01:35,759
allow for remote and contactless

37
00:01:39,749 --> 00:01:38,159
manipulation of materials in a micro

38
00:01:42,469 --> 00:01:39,759

gravity environment

39

00:01:44,789 --> 00:01:42,479

in the experiment an ultrasound beam is

40

00:01:48,149 --> 00:01:44,799

shaped so that it produces a trap from

41

00:01:50,710 --> 00:01:48,159

which an object cannot easily exit by

42

00:01:52,950 --> 00:01:50,720

moving the beam the object can be moved

43

00:01:54,710 --> 00:01:52,960

to a new position with very good

44

00:01:56,789 --> 00:01:54,720

precision

45

00:01:59,670 --> 00:01:56,799

it will not be long before we see new

46

00:02:02,069 --> 00:01:59,680

faces join our crew on the space station

47

00:02:03,670 --> 00:02:02,079

with two missions and final stages of

48

00:02:05,910 --> 00:02:03,680

preparation

49

00:02:08,389 --> 00:02:05,920

nasa and its international partners

50

00:02:11,029 --> 00:02:08,399

approved the crew members for axiom

51
00:02:13,110 --> 00:02:11,039
space's first private astronaut mission

52
00:02:15,750 --> 00:02:13,120
to the international space station the

53
00:02:18,309 --> 00:02:15,760
flight called axiom mission 1 is

54
00:02:21,350 --> 00:02:18,319
targeted to launch wednesday march 30th

55
00:02:23,750 --> 00:02:21,360
from launch complex 39a at nasa's

56
00:02:26,869 --> 00:02:23,760
kennedy space center in florida the crew

57
00:02:29,589 --> 00:02:26,879
of four will fly on spacex crew dragon

58
00:02:32,150 --> 00:02:29,599
endeavor to the space station after 10

59
00:02:35,270 --> 00:02:32,160
days of orbit the axiom one crew will

60
00:02:37,830 --> 00:02:35,280
splash down off the coast of florida

61
00:02:39,589 --> 00:02:37,840
nasa and spacex has also confirmed that

62
00:02:42,470 --> 00:02:39,599
they are still targeting launch of the

63
00:02:45,190 --> 00:02:42,480

crew 4 mission to the iss for friday

64

00:02:47,350 --> 00:02:45,200

april 15th nasa astronauts chell

65

00:02:49,830 --> 00:02:47,360

lindgren robert hines and jessica

66

00:02:51,750 --> 00:02:49,840

watkins as well as esa astronaut

67

00:02:54,710 --> 00:02:51,760

samantha christopher reddy will launch

68

00:02:56,670 --> 00:02:54,720

on board a new crew dragon capsule and

69

00:02:59,190 --> 00:02:56,680

dock with the space station for their

70

00:03:01,270 --> 00:02:59,200

180 day mission

71

00:03:03,030 --> 00:03:01,280

and that's spaced around for this week

72

00:03:03,940 --> 00:03:03,040

thanks for watching we'll see you next

73

00:03:15,460 --> 00:03:03,950

week