



Spaceto**Ground**

1
00:00:06,950 --> 00:00:05,030
houston station on space to ground

2
00:00:09,110 --> 00:00:06,960
welcome to space to ground i'm shanique

3
00:00:10,709 --> 00:00:09,120
wolverine this week boeing's second

4
00:00:12,870 --> 00:00:10,719
orbital test flight launched to the

5
00:00:14,870 --> 00:00:12,880
space station astronauts on board

6
00:00:16,470 --> 00:00:14,880
demonstrated deep space health and you

7
00:00:19,029 --> 00:00:16,480
can hear from the man with the single

8
00:00:21,029 --> 00:00:19,039
longest space flight by an american

9
00:00:23,509 --> 00:00:21,039
and liftoff

10
00:00:25,910 --> 00:00:23,519
starliner is headed back to space

11
00:00:28,070 --> 00:00:25,920
on thursday may 19th boeing's orbital

12
00:00:30,550 --> 00:00:28,080
flight test 2 lifted off from space

13
00:00:32,470 --> 00:00:30,560

launch complex 41 at cape canaveral

14

00:00:35,110 --> 00:00:32,480

space force station in florida on a

15

00:00:37,190 --> 00:00:35,120

united launch alliance atlas 5 rocket

16

00:00:38,630 --> 00:00:37,200

the starliner spacecraft is currently in

17

00:00:41,190 --> 00:00:38,640

route to dock with the international

18

00:00:43,430 --> 00:00:41,200

space station on friday night may 20th

19

00:00:45,510 --> 00:00:43,440

it will return to earth in late may with

20

00:00:47,510 --> 00:00:45,520

a parachute assisted desert landing in

21

00:00:49,750 --> 00:00:47,520

the western united states

22

00:00:52,950 --> 00:00:49,760

you can follow the flight on nasa tv

23

00:00:55,110 --> 00:00:52,960

nasa.gov and the nasa app

24

00:00:57,590 --> 00:00:55,120

so what do astronauts do when they have

25

00:00:59,590 --> 00:00:57,600

no doctors around

26

00:01:01,430 --> 00:00:59,600

this week the crew conducted their r

27

00:01:03,830 --> 00:01:01,440

health demonstration test using a

28

00:01:06,230 --> 00:01:03,840

modified commercial off-the-shelf device

29

00:01:09,030 --> 00:01:06,240

to diagnose certain medical conditions

30

00:01:11,670 --> 00:01:09,040

the device uses flow cytometry a method

31

00:01:13,670 --> 00:01:11,680

using lasers to sort and identify cells

32

00:01:16,469 --> 00:01:13,680

and can analyze cell count and cell

33

00:01:19,429 --> 00:01:16,479

characteristics detect microorganisms

34

00:01:21,749 --> 00:01:19,439

biomarkers and proteins and diagnose

35

00:01:23,429 --> 00:01:21,759

health disorders such as blood cancers

36

00:01:25,030 --> 00:01:23,439

the demonstration verifies that the

37

00:01:27,429 --> 00:01:25,040

hardware can function in the space

38

00:01:29,270 --> 00:01:27,439

environment and evaluates its accuracy

39

00:01:31,190 --> 00:01:29,280

monitoring crew health on deep space

40

00:01:33,429 --> 00:01:31,200

exploration missions presents unique

41

00:01:35,510 --> 00:01:33,439

challenges including limited space for

42

00:01:37,990 --> 00:01:35,520

medical devices and the inability to

43

00:01:39,910 --> 00:01:38,000

return samples to earth for analysis

44

00:01:42,230 --> 00:01:39,920

this technology also could provide

45

00:01:44,389 --> 00:01:42,240

timely cost-effective reliable and

46

00:01:46,870 --> 00:01:44,399

convenient diagnostic tests for patients

47

00:01:48,710 --> 00:01:46,880

on earth who lack access to robust

48

00:01:50,870 --> 00:01:48,720

healthcare infrastructure

49

00:01:53,109 --> 00:01:50,880

and a name to remember

50

00:01:57,429 --> 00:01:53,119

mark vande hi

51
00:01:59,350 --> 00:01:57,439
is the special guest on houston we have

52
00:02:01,270 --> 00:01:59,360
a podcast he discusses his

53
00:02:03,830 --> 00:02:01,280
record-breaking one-year mission aboard

54
00:02:05,590 --> 00:02:03,840
the iss and what it's like being home

55
00:02:07,350 --> 00:02:05,600
after a year in space

56
00:02:09,350 --> 00:02:07,360
as always you can catch the interview

57
00:02:11,510 --> 00:02:09,360
wherever you stream your podcast it will

58
00:02:14,229 --> 00:02:11,520
be available on apple podcast google

59
00:02:15,910 --> 00:02:14,239
podcast and soundcloud

60
00:02:17,430 --> 00:02:15,920
that's space to ground for this week

61
00:02:21,280 --> 00:02:17,440
thanks for watching we'll see you next

62
00:02:21,290 --> 00:02:29,110
[Music]

63
00:02:37,910 --> 00:02:31,820

subscribe for more space