



SPACE TO GROUND

1
00:00:04,420 --> 00:00:02,280
Houston station on space to ground

2
00:00:06,310 --> 00:00:04,430
welcome to space to ground your weekly

3
00:00:08,610 --> 00:00:06,320
look at what's happening on board the

4
00:00:11,140 --> 00:00:08,620
International Space Station I'm Dan Huot

5
00:00:12,909 --> 00:00:11,150
spacewalks are all the rage this month

6
00:00:14,859 --> 00:00:12,919
the station astronauts completed the

7
00:00:17,500 --> 00:00:14,869
second u.s. spacewalk in as many weeks

8
00:00:19,599 --> 00:00:17,510
on wednesday reid wiseman suited up

9
00:00:22,810 --> 00:00:19,609
again this time joined by fellow nasa

10
00:00:24,640 --> 00:00:22,820
astronaut butch Wilmore for a 6-hour 34

11
00:00:27,130 --> 00:00:24,650
minute excursion into the vacuum of

12
00:00:28,990 --> 00:00:27,140
space the pair swapped out a faulty

13
00:00:30,609 --> 00:00:29,000

voltage regulator which helps control

14

00:00:33,010 --> 00:00:30,619

power from one of the station's solar

15

00:00:35,260 --> 00:00:33,020

arrays they then relocated a number of

16

00:00:37,630 --> 00:00:35,270

cameras wireless antennas and other

17

00:00:39,430 --> 00:00:37,640

items necessary to prep the station for

18

00:00:42,369 --> 00:00:39,440

a little rearranging happening next year

19

00:00:44,950 --> 00:00:42,379

and next week cosmonauts max suraev and

20

00:00:46,810 --> 00:00:44,960

alexander samokutyaev get their turn to

21

00:00:50,200 --> 00:00:46,820

venture out on the third and final

22

00:00:52,150 --> 00:00:50,210

planned spacewalk of expedition 41 last

23

00:00:54,250 --> 00:00:52,160

week we told you about an experiment on

24

00:00:56,619 --> 00:00:54,260

station that's using yeast to test a

25

00:00:57,970 --> 00:00:56,629

potential tumor treatment this week

26
00:01:00,099 --> 00:00:57,980
we're gonna look at an experiment that's

27
00:01:01,660 --> 00:01:00,109
examining a different strain of use it's

28
00:01:04,960 --> 00:01:01,670
actually responsible for some very

29
00:01:06,730 --> 00:01:04,970
common infections Micro 8 is the latest

30
00:01:09,429 --> 00:01:06,740
in a line of studies using micro

31
00:01:11,050 --> 00:01:09,439
gravity's influence on tiny microbes to

32
00:01:13,390 --> 00:01:11,060
better understand the effects they can

33
00:01:15,310 --> 00:01:13,400
have on our bodies scientists have

34
00:01:17,289 --> 00:01:15,320
discovered that while in space certain

35
00:01:19,510 --> 00:01:17,299
pathogens are more resistant to

36
00:01:21,310 --> 00:01:19,520
traditional treatment gaining a better

37
00:01:23,710 --> 00:01:21,320
understanding of how these pathogens

38
00:01:25,660 --> 00:01:23,720

grow and develop into this state could

39

00:01:28,719 --> 00:01:25,670

lead to better treatment for infections

40

00:01:30,190 --> 00:01:28,729

both in space and on earth this week's

41

00:01:32,260 --> 00:01:30,200

Twitter question comes from a fourth

42

00:01:34,359 --> 00:01:32,270

grader who wants to know if the moon is

43

00:01:37,030 --> 00:01:34,369

the only place besides the ISS that

44

00:01:38,710 --> 00:01:37,040

astronauts have walked absolutely not

45

00:01:40,950 --> 00:01:38,720

spacewalks have been a part of almost

46

00:01:43,810 --> 00:01:40,960

every major step in human spaceflight

47

00:01:45,880 --> 00:01:43,820

the first American to enter the vacuum

48

00:01:49,359 --> 00:01:45,890

of space was Ed White during project

49

00:01:51,280 --> 00:01:49,369

Gemini all the way back in 1965 leading

50

00:01:54,069 --> 00:01:51,290

into Apollo with spacewalks happening

51
00:01:56,350 --> 00:01:54,079
both on and off the moon activity

52
00:01:58,179 --> 00:01:56,360
continued outside of early US and

53
00:02:00,279 --> 00:01:58,189
Russian space stations like Skylab and

54
00:02:02,620 --> 00:02:00,289
Mir and on into the shuttle program

55
00:02:05,139 --> 00:02:02,630
where astronauts worked outside the

56
00:02:07,240 --> 00:02:05,149
craft to repair satellites telescopes

57
00:02:09,580 --> 00:02:07,250
and of course to build the International

58
00:02:11,110 --> 00:02:09,590
Space Station make sure to keep sending

59
00:02:13,090 --> 00:02:11,120
your questions and comments using the