



SPACE TO GROUND

1
00:00:04,870 --> 00:00:03,030
houston station on space to ground

2
00:00:06,470 --> 00:00:04,880
welcome to space to ground your weekly

3
00:00:08,310 --> 00:00:06,480
look at what's happening onboard the

4
00:00:10,950 --> 00:00:08,320
international space station i'm dan

5
00:00:13,749 --> 00:00:10,960
hewitt two russian cosmonauts executed a

6
00:00:15,749 --> 00:00:13,759
flawless spacewalk on wednesday flight

7
00:00:18,070 --> 00:00:15,759
engineers yuri malenchenko and sergey

8
00:00:21,029 --> 00:00:18,080
volkov accomplished all of their tasks

9
00:00:23,189 --> 00:00:21,039
in 4 hours and 45 minutes the pair took

10
00:00:25,269 --> 00:00:23,199
a number of experiments samples swapped

11
00:00:26,870 --> 00:00:25,279
out a few research payloads installed

12
00:00:29,029 --> 00:00:26,880
some handles to help future space

13
00:00:30,710 --> 00:00:29,039

walkers get around and even tested out a

14

00:00:32,709 --> 00:00:30,720

new tool which can glue special

15

00:00:35,110 --> 00:00:32,719

protection coatings to the outside of

16

00:00:37,270 --> 00:00:35,120

spacecraft and one of the experiments

17

00:00:39,590 --> 00:00:37,280

they brought inside is looking to unlock

18

00:00:40,790 --> 00:00:39,600

the mysteries of how life spreads in our

19

00:00:43,750 --> 00:00:40,800

universe

20

00:00:46,549 --> 00:00:43,760

the european expose r2 payload tested

21

00:00:49,430 --> 00:00:46,559

the survivability of 46 species of

22

00:00:52,069 --> 00:00:49,440

bacteria fungi and arthropods in the

23

00:00:54,229 --> 00:00:52,079

harsh environment of space a few were

24

00:00:56,470 --> 00:00:54,239

even in special compartments to mimic

25

00:00:59,029 --> 00:00:56,480

conditions on mars where we're currently

26

00:01:01,430 --> 00:00:59,039

searching for signs of life the purpose

27

00:01:03,590 --> 00:01:01,440

is to see how organisms are able to cope

28

00:01:05,910 --> 00:01:03,600

and survive in extraterrestrial

29

00:01:07,830 --> 00:01:05,920

conditions helping us understand how the

30

00:01:09,910 --> 00:01:07,840

seeds of life might survive the trip

31

00:01:12,390 --> 00:01:09,920

through outer space and even how they

32

00:01:14,550 --> 00:01:12,400

might have arrived on planet earth

33

00:01:16,789 --> 00:01:14,560

february is african american history

34

00:01:18,710 --> 00:01:16,799

month and to help celebrate i'm joined

35

00:01:20,870 --> 00:01:18,720

this week by nasa astronaut victor

36

00:01:22,230 --> 00:01:20,880

glover take it away victor

37

00:01:24,230 --> 00:01:22,240

thanks dan

38

00:01:26,310 --> 00:01:24,240

since we're talking about spacewalks i'd

39

00:01:28,870 --> 00:01:26,320

like to highlight one nasa space walker

40

00:01:31,030 --> 00:01:28,880

whose name is still in the record books

41

00:01:33,830 --> 00:01:31,040

bob kerbeem joined the astronaut corps

42

00:01:36,429 --> 00:01:33,840

back in 1994 and flew on three space

43

00:01:39,990 --> 00:01:36,439

shuttle missions on his final flight

44

00:01:42,550 --> 00:01:40,000

sts-116 in 2006 kerb completed a record

45

00:01:44,149 --> 00:01:42,560

four spacewalks during a single mission

46

00:01:46,069 --> 00:01:44,159

he teamed up with crewmates to complete

47

00:01:47,910 --> 00:01:46,079

a major rewiring of the station's power

48

00:01:50,310 --> 00:01:47,920

system during the first three and when

49

00:01:52,310 --> 00:01:50,320

one of the station's 110 foot long solar

50

00:01:53,830 --> 00:01:52,320

panels got jammed when trying to retract

51
00:01:54,789 --> 00:01:53,840
he headed out one more time to get it

52
00:01:57,590 --> 00:01:54,799
closed

53
00:01:59,830 --> 00:01:57,600
kirby retired in 2007 with seven

54
00:02:02,069 --> 00:01:59,840
spacewalks and more than 45 hours of

55
00:02:03,749 --> 00:02:02,079
spacewalking time to his name keep

56
00:02:06,069 --> 00:02:03,759
sending us your questions using the