



# SPACE TO GROUND

1  
00:00:04,950 --> 00:00:03,110  
houston station on space to ground

2  
00:00:06,550 --> 00:00:04,960  
welcome to space to ground your weekly

3  
00:00:08,470 --> 00:00:06,560  
look at what's happening on board the

4  
00:00:10,470 --> 00:00:08,480  
international space station i'm dan

5  
00:00:12,789 --> 00:00:10,480  
hewitt space suits have some pretty

6  
00:00:14,549 --> 00:00:12,799  
complex machinery inside them and just

7  
00:00:16,790 --> 00:00:14,559  
like your car on earth they require a

8  
00:00:18,870 --> 00:00:16,800  
repair job every now and then

9  
00:00:21,510 --> 00:00:18,880  
scott kelly and tim peake swapped out

10  
00:00:23,509 --> 00:00:21,520  
one suit's fan pump separator a vital

11  
00:00:25,189 --> 00:00:23,519  
part of the life support system which

12  
00:00:27,830 --> 00:00:25,199  
had experienced some problems back in

13  
00:00:30,070 --> 00:00:27,840

december it took several hours for them

14

00:00:32,069 --> 00:00:30,080

to complete the delicate procedure now

15

00:00:34,069 --> 00:00:32,079

that it's finished the suit is ready for

16

00:00:36,470 --> 00:00:34,079

final checkouts before it is greenlit

17

00:00:39,270 --> 00:00:36,480

for future spacewalks it's one of five

18

00:00:41,350 --> 00:00:39,280

u.s suits currently on board for most of

19

00:00:43,590 --> 00:00:41,360

us the sun going down means it's almost

20

00:00:45,830 --> 00:00:43,600

time to sleep but what if the sun sets

21

00:00:48,310 --> 00:00:45,840

16 times a day

22

00:00:50,869 --> 00:00:48,320

the circadian rhythm study is looking at

23

00:00:53,029 --> 00:00:50,879

changes to astronauts biological clocks

24

00:00:55,110 --> 00:00:53,039

as a result of being in space

25

00:00:56,790 --> 00:00:55,120

it uses a small device to measure

26

00:00:59,110 --> 00:00:56,800

changes in a crew member's core

27

00:01:00,790 --> 00:00:59,120

temperature to give researchers insight

28

00:01:02,470 --> 00:01:00,800

into their sleep patterns

29

00:01:05,270 --> 00:01:02,480

getting enough quality sleep is

30

00:01:07,670 --> 00:01:05,280

important for any job but for astronauts

31

00:01:09,830 --> 00:01:07,680

it's vital to keep them efficient and

32

00:01:12,230 --> 00:01:09,840

safe while they operate in some of the

33

00:01:13,510 --> 00:01:12,240

harshest environments humankind has ever

34

00:01:15,590 --> 00:01:13,520

traveled

35

00:01:17,590 --> 00:01:15,600

as we continue to celebrate african

36

00:01:19,990 --> 00:01:17,600

american history month i'm joined once

37

00:01:22,070 --> 00:01:20,000

again by nasa astronaut victor glover

38

00:01:23,429 --> 00:01:22,080

over to you victor

39

00:01:25,270 --> 00:01:23,439

thanks dan

40

00:01:27,030 --> 00:01:25,280

every mission gets a lot of help from

41

00:01:28,710 --> 00:01:27,040

the teams on the ground and there have

42

00:01:30,630 --> 00:01:28,720

been a select few people in nasa's

43

00:01:31,749 --> 00:01:30,640

history who were chosen to lead those

44

00:01:33,910 --> 00:01:31,759

teams

45

00:01:35,749 --> 00:01:33,920

kwasi ali barucho became one of those

46

00:01:37,030 --> 00:01:35,759

leaders when he was chosen as a nasa

47

00:01:39,429 --> 00:01:37,040

flight director

48

00:01:41,590 --> 00:01:39,439

he came to nasa as a student employee in

49

00:01:43,030 --> 00:01:41,600

1993 while finishing up his degree at

50

00:01:45,990 --> 00:01:43,040

mit

51  
00:01:47,590 --> 00:01:46,000  
then in 2005 he was selected for nasa's

52  
00:01:49,350 --> 00:01:47,600  
newest class of flight directors

53  
00:01:51,350 --> 00:01:49,360  
becoming the first african american to

54  
00:01:53,590 --> 00:01:51,360  
lead the teams in mission control

55  
00:01:55,030 --> 00:01:53,600  
and quatzie was front and center as the

56  
00:01:56,789 --> 00:01:55,040  
lead shuttle flight director during

57  
00:01:58,230 --> 00:01:56,799  
nasa's final space shuttle mission in

58  
00:01:59,350 --> 00:01:58,240  
2011

59  
00:02:00,950 --> 00:01:59,360  
one of the biggest moments in the

60  
00:02:03,030 --> 00:02:00,960  
agency's history

61  
00:02:04,550 --> 00:02:03,040  
thanks victor keep sending us your