



# SPACE TO GROUND

1  
00:00:04,710 --> 00:00:02,950  
houston station on space to ground

2  
00:00:06,150 --> 00:00:04,720  
welcome to space to ground your weekly

3  
00:00:07,909 --> 00:00:06,160  
look at what's happening on board the

4  
00:00:10,390 --> 00:00:07,919  
international space station i'm dan

5  
00:00:12,549 --> 00:00:10,400  
hewitt crew members spent several days

6  
00:00:14,390 --> 00:00:12,559  
this week tuning up their spacesuits

7  
00:00:16,630 --> 00:00:14,400  
commander butch wilmore and astronaut

8  
00:00:18,470 --> 00:00:16,640  
samantha chris ferretti worked to swap

9  
00:00:21,109 --> 00:00:18,480  
out a fan pump separator in one of the

10  
00:00:23,029 --> 00:00:21,119  
station's suits wilmore and fellow nasa

11  
00:00:24,950 --> 00:00:23,039  
astronaut terry verts are scheduled to

12  
00:00:26,870 --> 00:00:24,960  
do three spacewalks starting in late

13  
00:00:28,710 --> 00:00:26,880

january to continue preparing the

14

00:00:31,910 --> 00:00:28,720

station for some major rearranging in

15

00:00:33,670 --> 00:00:31,920

the coming year expedition 42 is also

16

00:00:36,470 --> 00:00:33,680

getting ready for a special holiday

17

00:00:39,350 --> 00:00:36,480

delivery in preparation for spacex's

18

00:00:40,950 --> 00:00:39,360

fifth dragon iss resupply mission terry

19

00:00:42,950 --> 00:00:40,960

vert spent some time this week

20

00:00:45,510 --> 00:00:42,960

configuring the device astronauts use to

21

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

command visiting spacecraft dragon is

22

00:00:50,389 --> 00:00:47,520

scheduled for launch next week visit

23

00:00:53,029 --> 00:00:50,399

nasa.gov spacex for the latest updates

24

00:00:55,510 --> 00:00:53,039

in coverage time so what do buzz aldrin

25

00:00:57,670 --> 00:00:55,520

shoe the liberty bell and sports arenas

26  
00:00:59,670 --> 00:00:57,680  
all have in common well they all supply

27  
00:01:01,110 --> 00:00:59,680  
microbes that are currently growing on

28  
00:01:03,830 --> 00:01:01,120  
board the station

29  
00:01:06,149 --> 00:01:03,840  
dub project mercury a huge crowdsourc

30  
00:01:08,950 --> 00:01:06,159  
collection of tiny invisible bacteria

31  
00:01:11,590 --> 00:01:08,960  
viruses and fungi was flown into space

32  
00:01:13,910 --> 00:01:11,600  
for study many microbes grow differently

33  
00:01:15,670 --> 00:01:13,920  
in microgravity offering new insights

34  
00:01:18,149 --> 00:01:15,680  
that could help researchers develop

35  
00:01:19,910 --> 00:01:18,159  
helpful antibiotics for space travelers

36  
00:01:21,990 --> 00:01:19,920  
and earthlings alike

37  
00:01:23,830 --> 00:01:22,000  
this week the oscar report wants to know

38  
00:01:25,830 --> 00:01:23,840

what would happen if you threw something

39

00:01:26,789 --> 00:01:25,840

like a cricket ball at earth from the

40

00:01:28,390 --> 00:01:26,799

station

41

00:01:29,910 --> 00:01:28,400

well we actually have quite a bit of

42

00:01:31,590 --> 00:01:29,920

experience pitching things from the

43

00:01:33,510 --> 00:01:31,600

station towards the earth and they all

44

00:01:35,749 --> 00:01:33,520

pretty much meet the same end when

45

00:01:37,670 --> 00:01:35,759

jettisoning something from iss as

46

00:01:39,830 --> 00:01:37,680

russian space walkers occasionally do

47

00:01:41,910 --> 00:01:39,840

with obsolete parts it will eventually

48

00:01:43,670 --> 00:01:41,920

descend through the earth's atmosphere

49

00:01:45,990 --> 00:01:43,680

and since the object is moving at an

50

00:01:48,550 --> 00:01:46,000

initial speed of over 17

51

00:01:50,630 --> 00:01:48,560

500 miles an hour it will disintegrate

52

00:01:52,310 --> 00:01:50,640

from the heat of re-entry make sure to

53

00:01:54,310 --> 00:01:52,320

keep sending your questions and comments