



# SPACE TO GROUND

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

2  
00:00:06,230 --> 00:00:04,720  
welcome to space to ground your weekly

3  
00:00:07,990 --> 00:00:06,240  
look at what's happening on board the

4  
00:00:10,470 --> 00:00:08,000  
international space station i'm dan

5  
00:00:12,470 --> 00:00:10,480  
hewitt this week nasa celebrated the

6  
00:00:14,629 --> 00:00:12,480  
anniversaries of two big events that

7  
00:00:18,950 --> 00:00:14,639  
laid the groundwork for everything we do

8  
00:00:21,029 --> 00:00:18,960  
in space today on june 3rd 1965 gemini 4

9  
00:00:23,029 --> 00:00:21,039  
blasted off and resulted in two

10  
00:00:25,269 --> 00:00:23,039  
hallmarks of human space flight the

11  
00:00:28,230 --> 00:00:25,279  
first flight overseen by mission control

12  
00:00:30,550 --> 00:00:28,240  
houston and the first u.s space walk

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

since that day 50 years ago men and

14

00:00:34,950 --> 00:00:32,480

women in mission control houston have

15

00:00:36,870 --> 00:00:34,960

supported every u.s human space flight

16

00:00:37,830 --> 00:00:36,880

and continue to fly the space station

17

00:00:40,069 --> 00:00:37,840

today

18

00:00:42,709 --> 00:00:40,079

and spacewalks became one of our most

19

00:00:45,029 --> 00:00:42,719

powerful tools enabling us to accomplish

20

00:00:47,029 --> 00:00:45,039

astounding feats like walking on the

21

00:00:49,190 --> 00:00:47,039

moon and building and maintaining a

22

00:00:51,350 --> 00:00:49,200

giant space laboratory

23

00:00:53,189 --> 00:00:51,360

a major experiment for the one-year crew

24

00:00:55,189 --> 00:00:53,199

began this week and it's looking to

25

00:00:57,830 --> 00:00:55,199

tackle one of the biggest outstanding

26  
00:01:00,150 --> 00:00:57,840  
issues with living in microgravity when

27  
00:01:02,389 --> 00:01:00,160  
living in space all of the body's fluids

28  
00:01:04,149 --> 00:01:02,399  
shift around specifically with less in

29  
00:01:06,310 --> 00:01:04,159  
the legs and more in the head

30  
00:01:08,070 --> 00:01:06,320  
researchers believe that this increased

31  
00:01:09,830 --> 00:01:08,080  
fluid level in the head could be

32  
00:01:12,550 --> 00:01:09,840  
increasing pressure and causing

33  
00:01:14,469 --> 00:01:12,560  
astronauts vision to become impaired

34  
00:01:16,550 --> 00:01:14,479  
one year crew members scott kelly and

35  
00:01:18,870 --> 00:01:16,560  
mikhail kornienko donned the russian

36  
00:01:20,870 --> 00:01:18,880  
chibis device to draw fluids back

37  
00:01:22,630 --> 00:01:20,880  
towards their legs so measurements of

38  
00:01:25,030 --> 00:01:22,640

their eyes and blood vessels could be

39

00:01:27,030 --> 00:01:25,040

taken results from this study may help

40

00:01:30,390 --> 00:01:27,040

to develop preventative measures against

41

00:01:32,469 --> 00:01:30,400

lasting changes in vision and eye damage

42

00:01:34,550 --> 00:01:32,479

this week alice wants to know how long

43

00:01:36,390 --> 00:01:34,560

it takes to train as an astronaut well

44

00:01:38,870 --> 00:01:36,400

it takes quite a while but the payoff

45

00:01:40,710 --> 00:01:38,880

makes it all worth it the first step is

46

00:01:42,789 --> 00:01:40,720

getting selected and then going through

47

00:01:44,789 --> 00:01:42,799

astronaut candidate training which takes

48

00:01:46,550 --> 00:01:44,799

about two years and gives future

49

00:01:49,109 --> 00:01:46,560

astronauts the skills and knowledge

50

00:01:50,870 --> 00:01:49,119

needed for formal mission training once

51  
00:01:52,789 --> 00:01:50,880  
they get assigned to fly in the space

52  
00:01:54,789 --> 00:01:52,799  
station they'll spend roughly two more

53  
00:01:56,709 --> 00:01:54,799  
years training around the world on

54  
00:01:58,550 --> 00:01:56,719  
everything they'll need to do in space

55  
00:02:01,510 --> 00:01:58,560  
including things like experiment

56  
00:02:03,590 --> 00:02:01,520  
operations space walking and even how to

57  
00:02:05,270 --> 00:02:03,600  
prepare meals in space

58  
00:02:07,109 --> 00:02:05,280  
make sure to keep sending your questions