



Spaceto**Ground**

1
00:00:03,389 --> 00:00:05,509
WELCOME TO SPACE TO GROUND, I'M LEAH CHESHIER.

2
00:00:05,509 --> 00:00:07,170
THERE'S NO DENYING THE EFFECTS OF

3
00:00:07,170 --> 00:00:08,900
THE CORONAVIRUS AROUND THE WORLD,

4
00:00:08,900 --> 00:00:10,700
BUT THERE ARE THREE PEOPLE IN SPACE

5
00:00:10,700 --> 00:00:12,590
AWARE OF THOSE EFFECTS, TOO.

6
00:00:12,590 --> 00:00:14,490
THIS WEEK, NASA ASTRONAUT ANDREW MORGAN

7
00:00:14,490 --> 00:00:15,590
SHARED WHAT IT'S LIKE BEING

8
00:00:15,590 --> 00:00:16,869
ON THE SPACE STATION WHILE WE

9
00:00:16,869 --> 00:00:19,280
NAVIGATE LIFE DURING A PANDEMIC.

10
00:00:19,280 --> 00:00:21,279
"Well certainly with my own family

11
00:00:21,279 --> 00:00:23,369
I am in touch with them every day,

12
00:00:23,369 --> 00:00:25,490
and I know all the measures that

13
00:00:25,490 --> 00:00:27,660

have been taken to help prevent

14

00:00:27,660 --> 00:00:29,789

the spread of it and no,

15

00:00:29,789 --> 00:00:30,789

I don't have concerns and

16

00:00:30,789 --> 00:00:32,900

I know my family is safe.

17

00:00:32,900 --> 00:00:34,510

In terms of NASA and our

18

00:00:34,510 --> 00:00:36,940

support on the ground,

19

00:00:36,940 --> 00:00:38,500

NASA and our partner agencies,

20

00:00:38,500 --> 00:00:40,289

our partner space agencies,

21

00:00:40,289 --> 00:00:41,579

are no strangers to working

22

00:00:41,579 --> 00:00:43,500

in times of adversity.

23

00:00:43,500 --> 00:00:44,500

Just as recently as

24

00:00:44,500 --> 00:00:45,510

a couple of years ago

25

00:00:45,510 --> 00:00:47,710

when Houston was basically

26

00:00:47,710 --> 00:00:50,109
shut down by Hurricane Harvey,

27

00:00:50,109 --> 00:00:52,129
Mission Control Houston endured

28

00:00:52,129 --> 00:00:53,129
right through it.

29

00:00:53,129 --> 00:00:54,699
Operations up here are going

30

00:00:54,699 --> 00:00:56,170
to continue regardless of

31

00:00:56,170 --> 00:00:57,620
what's happening on the ground.

32

00:00:57,620 --> 00:00:59,850
And the resolve of the controllers

33

00:00:59,850 --> 00:01:02,010
on the ground have persevered

34

00:01:02,010 --> 00:01:03,030
and I know they will

35

00:01:03,030 --> 00:01:04,470
continue to do that.

36

00:01:04,470 --> 00:01:05,480
The difference this time is

37

00:01:05,480 --> 00:01:06,800
that there is some impact to

38

00:01:06,800 --> 00:01:07,850

all the control centers

39

00:01:07,850 --> 00:01:08,850

all over the world

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00:01:08,850 --> 00:01:10,460

but we're showing right now

41

00:01:10,460 --> 00:01:12,000

that they show the same resolve

42

00:01:12,000 --> 00:01:14,690

to make sure that the ISS remains safe,

43

00:01:14,690 --> 00:01:16,950

so we have full confidence in those

44

00:01:16,950 --> 00:01:19,990

that support us on the ground."

45

00:01:19,990 --> 00:01:21,520

THE VACUUM OF SPACE MAY BE SILENT,

46

00:01:21,520 --> 00:01:24,240

BUT THE INSIDE OF THE SPACE STATION IS DEFINITELY
NOT.

47

00:01:25,930 --> 00:01:27,600

DUE TO CONSTANTLY RUNNING MACHINERY,

48

00:01:27,600 --> 00:01:28,600

THE SPACE STATION CAN BE A

49

00:01:28,600 --> 00:01:29,930

PRETTY NOISY ENVIRONMENT,

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00:01:29,930 --> 00:01:30,930

AND IT DOESN'T HELP THAT

51
00:01:30,930 --> 00:01:32,670
FLUID SHIFTS MIGHT CAUSE PRESSURE ANOMALIES

52
00:01:32,670 --> 00:01:34,200
IN THE INNER EAR.

53
00:01:34,200 --> 00:01:35,719
THE ACOUSTIC DIAGNOSTICS STUDY

54
00:01:35,719 --> 00:01:37,520
MONITORS EFFECTS OF THE MICROGRAVITY

55
00:01:37,520 --> 00:01:39,060
AND ACOUSTIC ENVIRONMENT ABOARD THE

56
00:01:39,060 --> 00:01:40,890
SPACE STATION IN EFFORTS TO DETECT

57
00:01:40,890 --> 00:01:42,659
AND QUANTIFY EARLY SYMPTOMS OF

58
00:01:42,659 --> 00:01:44,670
MILD HEARING IMPAIRMENT.

59
00:01:44,670 --> 00:01:45,670
RESEARCHERS ARE USING

60
00:01:45,670 --> 00:01:47,520
OTOACOUSTIC EMISSIONS BASED TESTS

61
00:01:47,520 --> 00:01:49,409
TO OBTAIN FAST RESULTS THROUGH

62
00:01:49,409 --> 00:01:53,149
A NON-INVASIVE DIAGNOSIS PROCESS FOR CREW
MEMBERS.

63
00:01:53,149 --> 00:01:54,750
THESE TESTS OCCUR BEFORE, DURING

64
00:01:54,750 --> 00:01:56,770
AND AFTER AN ASTRONAUT'S MISSION

65
00:01:56,770 --> 00:01:59,530
TO DETERMINE ANY POSSIBLE ADVERSE EFFECTS.

66
00:01:59,530 --> 00:02:00,530
THIS HELPS US PREPARE FOR

67
00:02:00,530 --> 00:02:01,950
LONG-DURATION MISSIONS TO THE MOON

68
00:02:01,950 --> 00:02:03,730
AND MARS AND INCREASED EXPOSURE

69
00:02:03,730 --> 00:02:06,229
TO NOISY ENVIRONMENTS.

70
00:02:06,229 --> 00:02:07,549
KEEP SENDING IN YOUR QUESTIONS