



SPACE TO GROUND

1
00:00:00,606 --> 00:00:02,986
"HOUSTON, STATION
ON SPACE TO GROUND."

2
00:00:07,500 --> 00:00:10,066
WELCOME TO SPACE TO
GROUND, I'M DAN HUOT.

3
00:00:10,396 --> 00:00:13,126
IT FELT LIKE A TWO MINUTE
DRILL ON STATION THIS WEEK

4
00:00:13,156 --> 00:00:15,666
WITH THE SCIENCE
COMING FAST AND FURIOUS.

5
00:00:16,506 --> 00:00:19,066
PEGGY WHITSON WORKED
WITH THE JAPANESE AIRLOCK

6
00:00:19,066 --> 00:00:21,676
FOR SOME UPCOMING ROBOTICS
THAT WILL CLEAR SPACE

7
00:00:21,676 --> 00:00:23,166
ON THE EXPOSED FACILITY

8
00:00:23,296 --> 00:00:26,796
FOR A NEW ULTRA-HIGH-DEFINITION
CAMERA PAYLOAD THAT WILL BE USED

9
00:00:26,856 --> 00:00:28,586
FOR EARTH OBSERVATIONS.

10
00:00:28,696 --> 00:00:32,446
SHE ALSO SPENT TIME OVER IN THE
MICROGRAVITY SCIENCE GLOVEBOX

11
00:00:32,576 --> 00:00:35,856

SWAPPING OUT GEAR FOR THE PACKED BED REACTOR EXPERIMENT

12

00:00:35,966 --> 00:00:39,176

WHICH STUDIES TECHNOLOGY USED
IN WATER RECOVERY SYSTEMS,

13

00:00:39,356 --> 00:00:41,826

FUEL CELLS AND OTHER
EQUIPMENT ON THE STATION.

14

00:00:42,506 --> 00:00:45,516

AND ON THURSDAY, WHITSON
OPENED THE HATCH TO BEAM

15

00:00:45,516 --> 00:00:48,896

TO INSTALL MORE SENSORS AND
PERFORM ANOTHER MODAL TEST,

16

00:00:48,996 --> 00:00:51,746

WHICH LITERALLY HAS THE
ASTRONAUT BANG ON THE WALLS

17

00:00:51,746 --> 00:00:55,046

WITH THEIR FIST TO TEST
HOW BEAM REACTS TO IMPACTS

18

00:00:55,046 --> 00:00:57,176

AND ITS ABILITY TO
MINIMIZE VIBRATIONS.

19

00:00:57,736 --> 00:01:01,296

MEANWHILE, THOMAS PESQUET
BROKE OUT THE HAPTICS-2 PAYLOAD

20

00:01:01,476 --> 00:01:04,986

WHICH ALLOWS THE ASTRONAUTS TO
ACTUALLY CONTROL A ROBOT BACK

21

00:01:04,986 --> 00:01:07,106

ON EARTH, A REALLY COOL DEMO

22

00:01:07,106 --> 00:01:09,846

OF WHAT FUTURE EXPLORERS
COULD BE DOING ON MARS.

23

00:01:09,986 --> 00:01:13,606

HE ALSO SPUN AROUND FOR THE
SPHERES SLOSH EXPERIMENT,

24

00:01:13,726 --> 00:01:16,446

WHICH STUDIES HOW LIQUIDS
MOVE AROUND IN MICROGRAVITY,

25

00:01:16,606 --> 00:01:17,936

WHICH IMPACTS EVERYTHING

26

00:01:17,936 --> 00:01:20,266

FROM HOW THE ASTRONAUTS
GET THEIR MORNING COFFEE

27

00:01:20,266 --> 00:01:23,366

TO HOW ROCKET FUEL GETS
PUMPED TO ENGINES IN SPACE.

28

00:01:24,016 --> 00:01:26,926

PESQUET ALSO DONNED
THE BRAND NEW SKINSUIT,

29

00:01:27,026 --> 00:01:29,806

WHICH SQUEEZES THE BODY FROM
THE SHOULDERS TO THE FEET

30

00:01:29,836 --> 00:01:31,446

TO MIMIC THE FEELING OF GRAVITY,

31

00:01:31,766 --> 00:01:35,146

POTENTIALLY LIGHTENING THE
DISCOMFORT SOME CREW EXPERIENCE

32

00:01:35,146 --> 00:01:36,846

WHEN ADAPTING TO MICROGRAVITY.

33

00:01:37,646 --> 00:01:39,976

HOUSTON, WE HAVE A
SUPER BOWL AND THE CREW

34

00:01:39,976 --> 00:01:43,136

ON STATION IS GEARING
UP FOR THE BIG GAME.

35

00:01:43,136 --> 00:01:45,116

PARTICIPANTS IN A NASA SOCIAL

36

00:01:45,156 --> 00:01:47,466

AT SPACE CENTER HOUSTON
HAD A CHANCE TO TALK

37

00:01:47,516 --> 00:01:49,896

TO EXPEDITION 50
COMMANDER SHANE KIMBROUGH

38

00:01:50,126 --> 00:01:52,676

AND FLIGHT ENGINEER PEGGY
WHITSON, AND WONDERED

39

00:01:52,676 --> 00:01:55,176

IF THEY'D GET A SPECIAL
VIEW OF THE BIG GAME.

40

00:01:55,686 --> 00:01:58,256

" WELL, I WISH WE COULD PARK IT
ABOVE THE STADIUM AND JUST KIND

41

00:01:58,256 --> 00:02:00,586

OF WATCH FROM THAT PERSPECTIVE,
BUT WE CAN'T DO THAT.

42

00:02:00,586 --> 00:02:01,416

WE'RE GOING TO BE MOVING

43

00:02:01,416 --> 00:02:04,446

AT 17,500 MILES AN HOUR

WHETHER WE WANT TO OR NOT.

44

00:02:04,956 --> 00:02:07,716

BUT WE WILL HAVE THE GAME LIVE

UP HERE SO WE GET TO WATCH IT."

45

00:02:08,566 --> 00:02:11,156

GO LEARN ABOUT SOME

INTERESTING THINGS SPACEFLIGHT

46

00:02:11,156 --> 00:02:14,856

AND FOOTBALL HAVE IN

COMMON AT [NASA.GOV/FOOTBALL](https://www.nasa.gov/football).

47

00:02:16,096 --> 00:02:18,746

KEEP SENDING YOUR

QUESTIONS USING THE HASHTAG