



SPACE TO GROUND

1
00:00:00,386 --> 00:00:03,256
HOUSTON, STATION ON SPACE
TO GROUND EVEN WHEN WE'RE

2
00:00:03,256 --> 00:00:04,966
UP IN SPACE, WE'RE STILL
THINKING ABOUT EARTH.

3
00:00:04,966 --> 00:00:06,086
WELCOME TO SPACE TO
GROUND, I'M HAYLEY FICK.

4
00:00:06,086 --> 00:00:09,336
THE SAGE-III EXPERIMENT MEASURES
THE EARTH'S SUNSCREEN, OR OZONE,

5
00:00:09,436 --> 00:00:11,656
WHICH IS IMPORTANT TO
PROTECTING LIFE ON OUR PLANET.

6
00:00:12,226 --> 00:00:14,906
SAGE III WAS ROBOTICALLY
INSTALLED ON THE OUTSIDE

7
00:00:14,906 --> 00:00:15,966
OF THE SPACE STATION THIS WEEK.

8
00:00:16,526 --> 00:00:19,416
SAGE MAKES ITS MEASUREMENTS BY
LOCKING ONTO THE SUN OR MOON

9
00:00:19,576 --> 00:00:22,446
AND SCANNING THE LIMB, OR THIN
PROFILE OF THE ATMOSPHERE,

10
00:00:22,756 --> 00:00:25,486
FROM THE UNIQUE VANTAGE
POINT OF THE SPACE STATION.

11

00:00:25,606 --> 00:00:27,496

VISITING VEHICLES BRING
IMPORTANT SCIENCE,

12

00:00:27,496 --> 00:00:29,256

BUT IT USUALLY MEANS
MORE WORK FOR THE CREW.

13

00:00:30,446 --> 00:00:32,606

THOMAS PESQUET TWEETED
ABOUT HOW THE CREW TAKES

14

00:00:32,676 --> 00:00:34,316

ON ADDITIONAL WORK
TO UNLOAD THE CARGO,

15

00:00:34,716 --> 00:00:37,166

BUT THE WORK STARTS EVEN
BEFORE THE VEHICLES ARRIVE.

16

00:00:37,696 --> 00:00:39,416

CURRENTLY, THE CREW
HAS TO REMOVE

17

00:00:39,416 --> 00:00:42,116

AND REINSTALL CONTROL
PANEL ASSEMBLYS, OR CPAS,

18

00:00:42,116 --> 00:00:45,736

WHICH CONTROL THE BOLTING AND
UNBOLTING OF VISITING VEHICLES

19

00:00:45,736 --> 00:00:46,696

TO DESIGNATED PORTS

20

00:00:46,926 --> 00:00:48,966

ON THE STATION EVERY
TIME ONE COME AND GOES.

21

00:00:49,526 --> 00:00:52,036

THE CREW SPENT TIME THIS
WEEK TESTING A NEW CONCEPT

22
00:00:52,276 --> 00:00:54,866
THAT WOULD ALLOW THEM TO SIMPLY
FOLD THE CPAS OUT OF THE WAY

23
00:00:54,946 --> 00:00:57,036
WITHOUT CAUSING ANY
INTERFERENCE ISSUES.

24
00:00:57,036 --> 00:01:00,226
OUR TWITTER QUESTION THIS WEEK
COMES FROM YVETTE WHEELER.

25
00:01:00,476 --> 00:01:03,416
YVETTE WANTED TO KNOW WHICH FOOD
ASTRONAUTS MISS THE MOST WHILE

26
00:01:03,416 --> 00:01:03,796
IN SPACE.

27
00:01:04,416 --> 00:01:06,446
LUCKILY THE ASTRONAUTS
ARE ON SOCIAL MEDIA

28
00:01:06,446 --> 00:01:08,536
TO TELL US FOR THEMSELVES!

29
00:01:08,536 --> 00:01:11,006
SCIENCE IS NOT THE ONLY
THING CARGO VEHICLES DELIVER.

30
00:01:11,356 --> 00:01:13,926
SHANE KIMBROUGH TWEETED THIS
WEEK THAT HE WAS EXCITED

31
00:01:14,006 --> 00:01:17,406
TO ENJOY FRESH FRUIT DELIVERED
BY THE SPACEX DRAGON VEHICLE.

32

00:01:18,176 --> 00:01:20,516

WE'RE WORKING ON TECHNIQUES
TO GROW FOOD IN SPACE

33

00:01:20,596 --> 00:01:22,626

SO WE CAN HAVE FRESH
FRUITS AND VEGETABLES

34

00:01:22,626 --> 00:01:24,756

ON LONG DURATION MISSIONS
TO PLACES LIKE MARS.

35

00:01:24,756 --> 00:01:27,106

IN FACT, THE CREW
WORKED ON AN EXPERIMENT

36

00:01:27,106 --> 00:01:30,086

WITH CORN SEEDLINGS THIS WEEK
THAT STUDIES HOW THE TRANSPORT

37

00:01:30,086 --> 00:01:32,926

OF AUXIN, A HORMONE THAT
PLAYS A ROLE IN PLANT GROWTH

38

00:01:32,926 --> 00:01:35,036

AND DEVELOPMENT, IS
AFFECTED BY MICROGRAVITY.

39

00:01:35,816 --> 00:01:39,216

FRESH FOODS ARE IMPORTANT, BUT
A SPECIAL TREAT IS A SWEET WAY

40

00:01:39,216 --> 00:01:41,156

TO BE REMINDED OF HOME
EVERY ONCE IN A WHILE TOO!

41

00:01:41,696 --> 00:01:44,326

THE SPACEX CARGO VEHICLE
DELIVERED MACARON COOKIES

42

00:01:44,326 --> 00:01:46,686

FOR FRENCH ASTRONAUT
THOMAS PESQUET'S BIRTHDAY!

43

00:01:47,716 --> 00:01:50,526

KEEP SENDING YOUR QUESTIONS
USING THE HASHTAG SPACE