



Space **to** Ground

1
00:00:02,696 --> 00:00:04,656
"HOUSTON, STATION
ON SPACE TO GROUND."

2
00:00:05,336 --> 00:00:07,686
WELCOME TO SPACE TO
GROUND, I AM KAYLA LAFRANCE.

3
00:00:07,826 --> 00:00:11,346
THIS WEEK ASTRONAUTS ONBOARD
THE STATION WERE BUSY PREPARING

4
00:00:11,346 --> 00:00:14,246
TO STEP OUTSIDE THE SPACE
STATION FOR ANOTHER SPACEWALK.

5
00:00:15,926 --> 00:00:18,286
LAST FRIDAY, NASA
ASTRONAUTS NICK HAGUE

6
00:00:18,536 --> 00:00:21,116
AND ANNE MCCLAIN CONDUCTED
THE FIRST SPACEWALK

7
00:00:21,116 --> 00:00:22,816
IN THIS SERIES OF THREE.

8
00:00:23,796 --> 00:00:26,466
THE PAIR VENTURED OUTSIDE
THE STATION'S QUEST AIRLOCK

9
00:00:26,526 --> 00:00:29,096
TO CONDUCT A SIX AND
A HALF HOUR SPACEWALK

10
00:00:29,286 --> 00:00:32,476
TO SUPPORT THE REPLACEMENT OF
OLD NICKEL-HYDROGEN BATTERIES

11

00:00:32,476 --> 00:00:35,316
WITH NEWER, MORE POWERFUL
LITHIUM-ION BATTERIES

12

00:00:35,446 --> 00:00:38,016
FOR ONE PAIR OF THE
STATION'S SOLAR ARRAYS.

13

00:00:38,776 --> 00:00:41,326
THE NEW BATTERIES HAD BEEN
TRANSPORTED TO THE STATION

14

00:00:41,326 --> 00:00:45,086
IN SEPTEMBER ABOARD THE
JAPANESE H-II TRANSFER VEHICLE.

15

00:00:46,706 --> 00:00:48,776
THIS WEEK NASA ASTRONAUTS
NICK HAGUE

16

00:00:48,856 --> 00:00:51,696
AND CHRISTINA KOCH
CONTINUED THE EXTERNAL WORK

17

00:00:51,696 --> 00:00:53,256
ON THE STATIONS POWER SYSTEM

18

00:00:53,376 --> 00:00:55,296
WHEN THEY CONDUCTED
THE SECOND SPACEWALK.

19

00:00:55,936 --> 00:00:59,106
THE DUO REMOVED ANOTHER SET
OF NICKEL-HYDROGEN BATTERIES

20

00:00:59,206 --> 00:01:01,486
AND REPLACED THEM WITH
LITHIUM-ION BATTERIES

21

00:01:01,546 --> 00:01:03,596

THAT WILL STORE ENERGY
FOR ANOTHER

22

00:01:03,596 --> 00:01:05,516

OF THE STATION'S
EIGHT POWER CHANNELS.

23

00:01:06,456 --> 00:01:09,096

THIS SPACEWALK COMPLETED
THE SECOND ROUND OF UPGRADES

24

00:01:09,256 --> 00:01:11,486

TO THE STATION'S POWER
SYSTEM THAT BEGAN

25

00:01:11,486 --> 00:01:15,516

WITH SIMILAR BATTERY REPLACEMENT
SPACEWALKS IN JANUARY 2017.

26

00:01:16,426 --> 00:01:19,526

THE 3RD EVA IN THE SERIES
WILL BE CONDUCTED ON APRIL 8TH

27

00:01:19,696 --> 00:01:21,366

BY NASA ASTRONAUT ANN MCCLAIN

28

00:01:21,566 --> 00:01:24,006

AND CANADIAN ASTRONAUT
DAVID SAINT-JACQUES.

29

00:01:25,596 --> 00:01:28,696

DURING THIS EVA, THE TWO SPACE
WALKERS WILL DEPLOY JUMPER

30

00:01:28,696 --> 00:01:31,926

CABLES BETWEEN THE UNITY
MODULE AND THE S0 TRUSS,

31

00:01:31,926 --> 00:01:34,666

AT THE MIDPOINT OF THE

STATION'S BACKBONE.

32

00:01:34,866 --> 00:01:40,096
TUNE INTO NASA TV ON APRIL
8TH STARTING AT 6:30 AM EASTERN

33

00:01:40,496 --> 00:01:42,846
FOR LIVE COVERAGE
OF THIS FINAL EVA.

34

00:01:43,786 --> 00:01:46,856
THIS WEEK'S QUESTION COMES
FROM STEPHEN WHO ASKED,

35

00:01:46,856 --> 00:01:49,446
HOW MANY EXPERIMENTS TO
DATE HAVE BEEN CONDUCTED

36

00:01:49,516 --> 00:01:50,396
ON THE SPACE_STATION?

37

00:01:51,726 --> 00:01:54,466
SINCE THE ISS LAUNCHED
OVER 20 YEARS AGO,

38

00:01:54,716 --> 00:01:58,556
MORE THAN 2500 RESEARCH
INVESTIGATIONS FROM RESEARCHERS

39

00:01:58,556 --> 00:02:01,526
IN 106 COUNTRIES
HAVE BEEN CONDUCTED

40

00:02:01,526 --> 00:02:02,646
ON THE ORBITING LABORATORY.

41

00:02:03,236 --> 00:02:05,476
THESE EXPERIMENTS CROSS
MANY DIFFERENT FIELDS,

42

00:02:05,626 --> 00:02:09,356

INCLUDING ASTRONOMY, BIOLOGY,
EARTH SCIENCE, PHYSICAL SCIENCE,

43

00:02:09,596 --> 00:02:10,766

TECHNOLOGY DEVELOPMENT

44

00:02:10,766 --> 00:02:12,946

AND DEMONSTRATION,
AND HUMAN RESEARCH.