



SPACE TO GROUND

1
00:00:00,860 --> 00:00:02,520
"HOUSTON, STATION
ON SPACE TO GROUND."

2
00:00:02,716 --> 00:00:05,416
WELCOME TO SPACE TO GROUND,
I'M KATHRYN MCLAURIN.

3
00:00:05,416 --> 00:00:08,446
A SUCCESSFUL SPACEWALK IS
JUST ONE OF THE HIGHLIGHTS

4
00:00:08,446 --> 00:00:10,356
OF AN ANOTHER EXCITING
WEEK ON STATION.

5
00:00:11,296 --> 00:00:14,066
EXPEDITION 55 FLIGHT
ENGINEERS DREW FEUSTEL

6
00:00:14,066 --> 00:00:17,606
AND RICKY ARNOLD COMPLETED
THE 210TH SPACEWALK IN SUPPORT

7
00:00:17,606 --> 00:00:20,136
OF STATION ASSEMBLY,
MAINTENANCE AND UPGRADES.

8
00:00:20,426 --> 00:00:23,456
THE SIX HOUR AND 31 MINUTE
SPACEWALK WAS THE EIGHTH

9
00:00:23,456 --> 00:00:25,266
FOR FEUSTEL AND THE
FOURTH FOR ARNOLD.

10
00:00:25,336 --> 00:00:28,236
THEY COMPLETED ALL OF THEIR
PRIMARY OBJECTIVES INCLUDING

11
00:00:28,236 --> 00:00:32,056
RELOCATING A PUMP FLOW
CONTROL SUBASSEMBLY, OR PFCS,

12
00:00:32,656 --> 00:00:34,936
FROM A SPARE PARTS PLATFORM
ON THE STATION'S TRUSS

13
00:00:35,266 --> 00:00:37,386
TO THE SPECIAL PURPOSE
DEXTEROUS MANIPULATOR,

14
00:00:37,386 --> 00:00:39,116
OR DEXTRE, ROBOTIC ARM.

15
00:00:39,226 --> 00:00:41,886
THE PFCS DRIVES AND
CONTROLS THE FLOW OF AMMONIA

16
00:00:41,886 --> 00:00:44,446
THROUGH THE EXTERIOR PORTIONS
OF THE STATION'S COOLING SYSTEM.

17
00:00:44,446 --> 00:00:47,306
THE ASTRONAUTS ALSO
REPLACED A CAMERA SYSTEM

18
00:00:47,306 --> 00:00:50,056
ON THE DESTINY LABORATORY AND
A COMMUNICATIONS RECEIVER.

19
00:00:50,356 --> 00:00:53,526
THE SECOND SPACEWALK FOR THIS
TEAM IS PLANNED FOR MID JUNE.

20
00:00:54,606 --> 00:00:57,456
EXPEDITION CREWMEMBERS ALSO HAD
THE OPPORTUNITY TO TAKE IMAGES

21

00:00:57,456 --> 00:00:58,956
OF A MAJOR EVENT BACK ON EARTH.

22
00:00:59,876 --> 00:01:02,576
WHILE FLYING OVER THE BIG
ISLAND OF HAWAII, ASTRONAUTS

23
00:01:02,576 --> 00:01:05,066
AND COSMONAUTS SHOT
PHOTOGRAPHS OF THE ASH PLUME

24
00:01:05,066 --> 00:01:06,386
FROM THE KILAUEA VOLCANO.

25
00:01:07,046 --> 00:01:09,116
THE VOLCANO BECAME
ACTIVE EARLIER THIS MONTH,

26
00:01:09,146 --> 00:01:12,726
WITH NUMEROUS FISSURES EMITTING
LAVA AND TOXIC SULFUR DIOXIDE.

27
00:01:13,366 --> 00:01:15,746
NASA SUPPORTS THE
INTERNATIONAL DISASTER CHARTER,

28
00:01:15,986 --> 00:01:18,606
WHICH GATHERS IMAGERY AND
DATA FOR NATURAL DISASTERS

29
00:01:18,606 --> 00:01:20,946
AROUND THE GLOBE TO SHARE
WITH EMERGENCY RESPONDERS.

30
00:01:21,546 --> 00:01:23,446
YOU CAN SEE SOME OF
THE STUNNING IMAGES

31
00:01:23,446 --> 00:01:25,396
ON THE CREWMEMBERS

SOCIAL MEDIA ACCOUNTS.

32

00:01:25,526 --> 00:01:28,286

THIS WEEK'S TWITTER
QUESTION COMES FROM SHANKAR.

33

00:01:28,836 --> 00:01:31,306

HE WANTS TO KNOW HOW IS
THE STATION REBOOSTED

34

00:01:31,376 --> 00:01:32,736

AND HOW DOES IT GET REFUELED.

35

00:01:33,366 --> 00:01:35,786

THE STATION CAN BE
REBOOSTED TWO DIFFERENT WAYS:

36

00:01:36,236 --> 00:01:39,456

USING THRUSTERS LOCATED THE
RUSSIAN ZVEZDA SERVICE MODULE

37

00:01:39,566 --> 00:01:41,466

OR FIRING THE ENGINES
ON A DOCKED PROGRESS.

38

00:01:42,106 --> 00:01:43,666

PROGRESS IS THE PRIMARY METHOD,

39

00:01:43,986 --> 00:01:46,016

ZVEZDA IS USUALLY
USED AS A BACKUP.

40

00:01:46,186 --> 00:01:48,776

PROGRESS CRAFT ALSO
DELIVER FUEL TO THE STATION,

41

00:01:48,806 --> 00:01:51,376

WITH THE FUEL STORED IN
TANKS ON ZVEZDA AND ZARYA.

