



SPACE TO GROUND

1
00:00:00,606 --> 00:00:02,896
"HOUSTON, STATION
ON SPACE TO GROUND."

2
00:00:02,896 --> 00:00:05,516
WELCOME TO SPACE TO GROUND,
I'M KATHRYN MCLAURIN.

3
00:00:05,726 --> 00:00:08,076
THIS WEEK OUR CREWMEMBERS
WRAPPED UP A SPACEWALK

4
00:00:08,076 --> 00:00:10,016
AND ARE NOW GETTING
READY FOR A NEW DELIVERY

5
00:00:10,016 --> 00:00:11,246
OF SCIENCE AND RESEARCH.

6
00:00:12,066 --> 00:00:14,886
EXPEDITION 55 FLIGHT
ENGINEERS DREW FEUSTEL

7
00:00:14,886 --> 00:00:18,306
AND RICKY ARNOLD COMPLETED
THE 209TH SPACEWALK IN SUPPORT

8
00:00:18,306 --> 00:00:21,026
OF SPACE STATION ASSEMBLY,
MAINTENANCE AND UPGRADES.

9
00:00:21,026 --> 00:00:24,616
THIS WAS THE 7TH SPACEWALK FOR
FUESTAL AND THE 3RD FOR ARNOLD.

10
00:00:24,646 --> 00:00:27,516
DURING THE SPACEWALK THEY
INSTALLED WIRELESS COMMUNICATION

11

00:00:27,516 --> 00:00:29,246

EQUIPMENT ON THE
TRANQUILITY MODULE

12

00:00:29,246 --> 00:00:32,086

TO ENHANCE DATA PROCESSING
FOR THE ECOSTRESS EXPERIMENT

13

00:00:32,086 --> 00:00:33,966

THAT WILL BE ARRIVING
ON A FUTURE CARGO SHIP.

14

00:00:34,246 --> 00:00:36,996

THIS EXPERIMENT WILL MEASURE THE
TEMPERATURE OF PLANTS ON EARTH

15

00:00:37,146 --> 00:00:39,366

TO BETTER UNDERSTAND HOW
MUCH WATER PLANTS NEED

16

00:00:39,366 --> 00:00:40,856

AND HOW THE PLANTS
RESPOND TO STRESS.

17

00:00:41,136 --> 00:00:44,246

THE CREW MEMBERS ALSO
REPLACED THE PAN/TILT MECHANISM

18

00:00:44,246 --> 00:00:46,066

FOR A CAMERA ON THE
OUTSIDE OF THE STATION

19

00:00:46,066 --> 00:00:48,996

AND REMOVED AGING HOSES
FROM THE COOLING COMPONENT

20

00:00:48,996 --> 00:00:49,926

ON THE STATIONS TRUSS.

21

00:00:50,026 --> 00:00:52,936

NOW THAT THE SPACEWALK
IS COMPLETED,

22

00:00:52,996 --> 00:00:54,436

STATION RESIDENTS
ARE GETTING READY

23

00:00:54,436 --> 00:00:56,556

FOR NEXT WEEK'S SPECIAL
DELIVERY FROM SPACEX.

24

00:00:57,626 --> 00:01:01,656

ON MONDAY, APRIL 2, SPACEX WILL
LAUNCH ITS 14TH CARGO RESUPPLY

25

00:01:01,660 --> 00:01:02,920

MISSION TO THE ISS.

26

00:01:03,340 --> 00:01:07,400

THE SPACEX DRAGON IS PACKED WITH
ALMOST 5,800 POUNDS OF RESEARCH,

27

00:01:07,486 --> 00:01:09,006

CREW SUPPLIES AND HARDWARE.

28

00:01:09,636 --> 00:01:12,266

RESEARCH HIGHLIGHTS INCLUDE
A STUDY ON METABOLIC TRACKING

29

00:01:12,356 --> 00:01:15,396

THAT WILL EVALUATE THE METABOLIC
IMPACTS OF PHARMACEUTICAL DRUGS,

30

00:01:15,846 --> 00:01:18,076

THE ATMOSPHERE SPACE
INTERACTIONS MONITOR

31

00:01:18,076 --> 00:01:20,566

THAT WILL STUDY SEVERE
THUNDERSTORMS AND THEIR ROLE

32

00:01:20,566 --> 00:01:22,256

IN THE EARTH'S ATMOSPHERE
AND THE CLIMATE,

33

00:01:22,556 --> 00:01:25,266

AND THE VEGGIE PASSIVE ORBITAL
NUTRIENT DELIVERY SYSTEM

34

00:01:25,316 --> 00:01:27,886

EXPERIMENT THAT CONTINUES
NASA'S PLANT RESEARCH

35

00:01:27,886 --> 00:01:30,376

BY TESTING A NEW WAY TO
DELIVER NUTRIENTS TO PLANTS.

36

00:01:30,956 --> 00:01:33,156

THE DRAGON WILL SPEND
ALMOST A MONTH ATTACHED

37

00:01:33,156 --> 00:01:35,636

TO THE SPACE STATION BEFORE
RETURNING IN MAY WITH RESULTS

38

00:01:35,636 --> 00:01:37,346

OF COMPLETED EXPERIMENTS.

39

00:01:37,346 --> 00:01:39,816

LIVE COVERAGE WILL BEGIN
AT 4:00 PM EASTERN

40

00:01:39,816 --> 00:01:44,276

ON MONDAY APRIL 2ND ON NASA
TV AND AT NASA.GOV/NASALIVE.

41

00:01:45,306 --> 00:01:48,186

MANISH ON TWITTER WANTS TO KNOW
WHY IT TAKES SO LONG FOR THE ISS

42

00:01:48,186 --> 00:01:50,976

TO OPEN THE HATCHES ONCE THE
SOYUZ IS DOCKED TO THE STATION.

43

00:01:51,686 --> 00:01:54,576

AFTER DOCKING, THE CREW CONDUCTS
A SERIES OF LEAK CHECKS,

44

00:01:54,916 --> 00:01:56,596

CHECKING IN WITH FLIGHT
CONTROLLERS BACK ON EARTH

45

00:01:56,596 --> 00:01:59,986

AND MAKING SURE THAT THERE IS A
PERFECT SEAL BETWEEN THE SOYUZ

46

00:01:59,986 --> 00:02:01,666

AND THE HATCH ON
THE SPACE STATION.

47

00:02:02,046 --> 00:02:04,246

THE PROCESS TAKES ABOUT
TWO HOURS TO COMPLETE,

48

00:02:04,716 --> 00:02:06,806

DURING THIS TIME, THE CREW
CAN GET OUT OF THEIR LAUNCH

49

00:02:06,806 --> 00:02:09,386

AND ENTRY SUITS AND GET
READY TO MOVE INSIDE STATION.