



Spaceto**Ground**

1
00:00:02,366 --> 00:00:04,326
"HOUSTON, STATION
ON SPACE TO GROUND."

2
00:00:05,006 --> 00:00:07,546
"DREW FEUSTEL HAS
NOW MOVED INTO THIRD

3
00:00:07,596 --> 00:00:09,576
FOR ALL TIME SPENT SPACEWALKING.

4
00:00:09,776 --> 00:00:11,906
FEUSTEL, NOW ON HIS
NINTH SPACEWALK,

5
00:00:11,976 --> 00:00:15,956
HAS SPENT 60 HOURS 22
MINUTES AND COUNTING OUTSIDE

6
00:00:16,036 --> 00:00:17,646
IN THE VACUUM OF SPACE."

7
00:00:17,876 --> 00:00:21,276
WELCOME TO SPACE TO GROUND,
I'M KATHRYN MCLAURIN.

8
00:00:21,656 --> 00:00:23,826
THIS WEEK, THE CREW
KEPT BUSY INSIDE

9
00:00:23,826 --> 00:00:25,966
AND OUTSIDE THE INTERNATIONAL
SPACE STATION.

10
00:00:26,836 --> 00:00:29,276
EXPEDITION 56 COMMANDER
DREW FEUSTEL

11
00:00:29,366 --> 00:00:32,226

AND FLIGHT ENGINEER RICKY
ARNOLD COMPLETED A SPACEWALK

12

00:00:32,226 --> 00:00:32,996
ON THURSDAY.

13

00:00:32,996 --> 00:00:36,346
THE ASTRONAUTS INSTALLED NEW
HIGH DEFINITION CAMERAS NEAR AN

14

00:00:36,346 --> 00:00:39,296
INTERNATIONAL DOCKING ADAPTER
ATTACHED TO THE FRONT END

15

00:00:39,296 --> 00:00:40,816
OF STATION'S HARMONY MODULE.

16

00:00:40,816 --> 00:00:43,346
THE NEW CAMERAS WILL
PROVIDE ENHANCED VIEWS

17

00:00:43,346 --> 00:00:45,356
OF THE FINAL PHASE OF
APPROACH AND DOCKING

18

00:00:45,356 --> 00:00:48,606
OF THE SPACEX CREW DRAGON
AND THE BOEING STARLINER.

19

00:00:48,606 --> 00:00:51,676
DRAGON AND STARLINER ARE BOTH
COMMERCIAL CREW SPACECRAFT

20

00:00:51,676 --> 00:00:53,666
THAT WILL LAUNCH SOON
FROM AMERICAN SOIL.

21

00:00:53,666 --> 00:00:57,026
THE ASTRONAUTS ALSO HAD TIME
TO SWAP OUT A CAMERA ASSEMBLY

22

00:00:57,026 --> 00:00:58,846

ON THE STARBOARD
TRUSS OF THE STATION

23

00:00:59,096 --> 00:01:00,376

AND CLOSE AN APERTURE DOOR

24

00:01:00,376 --> 00:01:03,156

ON AN EXTERNAL ENVIRONMENTAL
IMAGING EXPERIMENT OUTSIDE

25

00:01:03,156 --> 00:01:04,656

OF THE JAPANESE KIBO MODULE.

26

00:01:04,656 --> 00:01:08,226

FIVE HOURS AND 23 MINUTES INTO
THE SPACEWALK FEUSTEL MOVED

27

00:01:08,226 --> 00:01:11,206

INTO THIRD PLACE FOR CUMULATIVE
TIME SPENT DURING SPACEWALKS

28

00:01:11,436 --> 00:01:14,016

SURPASSING PEGGY WHITSON WHO
PREVIOUSLY HELD THAT POST.

29

00:01:14,716 --> 00:01:17,406

DID YOU KNOW THAT THE NASA
PERISCOPE CHANNEL OFFERS MORE

30

00:01:17,506 --> 00:01:19,296

CHANCES TO INTERACT
WITH NASA ASTRONAUTS,

31

00:01:19,396 --> 00:01:20,736

SCIENTISTS AND ENGINEERS?

32

00:01:20,736 --> 00:01:24,456

THIS WEEK THE NASA PERISCOPE
CHANNEL HOSTED A SPECIAL EVENT

33

00:01:24,456 --> 00:01:26,616

WHERE JOE ACABA AND
MARK VANDE HEI TALKED

34

00:01:26,676 --> 00:01:29,086

ABOUT THE NATIONAL WEEK
OF MAKING, STEMONSTRATIONS

35

00:01:29,086 --> 00:01:31,636

AND THE YEAR OF EDUCATION
ON STATION.

36

00:01:31,636 --> 00:01:33,396

PEOPLE WERE ABLE TO
TWEET THEIR QUESTIONS

37

00:01:33,486 --> 00:01:37,506

TO @NASAEDU USING THE HASHTAG
ASK NASA BEFORE THE EVENT

38

00:01:37,506 --> 00:01:38,956

FOR JOE AND MARK TO ANSWER LIVE.

39

00:01:39,216 --> 00:01:41,716

FOR YOUR CHANCE TO PARTICIPATE
IN FUTURE EVENTS BE SURE

40

00:01:41,716 --> 00:01:43,966

TO SUBSCRIBE TO THE
NASA PERISCOPE CHANNEL.

41

00:01:44,436 --> 00:01:46,286

THIS WEEK'S QUESTION
COMES FROM CLAIRE

42

00:01:46,586 --> 00:01:49,366

FROM STURGEON BAY WISCONSIN

WHO WANTS TO KNOW IF BEING

43

00:01:49,366 --> 00:01:51,376
IN SPACE IS JUST LIKE
BEING UNDER WATER.

44

00:01:51,656 --> 00:01:53,196
WELL, IT'S PRETTY CLOSE.

45

00:01:53,936 --> 00:01:56,826
ASTRONAUTS TRAIN FOR SPACEWALKS
AT THE NEUTRAL BOUYANCY LAB

46

00:01:56,826 --> 00:01:57,936
AT THE JOHNSON SPACE CENTER.

47

00:01:58,456 --> 00:02:01,396
THE LAB IS ESSENTIALLY A BIG
POOL WITH A FULL SIZE MOCK-UP

48

00:02:01,396 --> 00:02:03,036
OF THE SPACE STATION IN IT.

49

00:02:03,036 --> 00:02:05,636
ASTRONAUTS TRAIN UNDER WATER TO
PRACTICE FOR FUTURE SPACEWALKS.

50

00:02:06,236 --> 00:02:08,246
BEING UNDERWATER IS AN
EXCELLENT WAY TO PREPARE

51

00:02:08,246 --> 00:02:09,916
FOR THE MICROGRAVITY
ENVIRONMENT OF SPACE

52

00:02:10,166 --> 00:02:12,666
BECAUSE YOU CAN BE WEIGHED SO
THAT YOU ARE NUETRALLY BOUYANT,

53

00:02:12,876 --> 00:02:14,086
WHICH JUST MEANS YOU WONT SINK

54
00:02:14,146 --> 00:02:15,666
TO THE BOTTOM OR
RISE TO THE TOP.

55
00:02:16,356 --> 00:02:17,606
THIS IS CRITICAL
FOR LEARNING HOW

56
00:02:17,706 --> 00:02:20,276
TO SUCCESSFULLY ACCOMPLISH TASKS
DURING THE REAL SPACEWALKS.

57
00:02:21,196 --> 00:02:24,166
KEEP SENDING IN YOUR QUESTIONS
USING THE HASHTAG SPACETOGROUND,

58
00:02:24,166 --> 00:02:25,080
WE'LL SEE YOU NEXT WEEK.