SpacetoGround

1
00:00:02,920 --> 00:00:05,220
"HOUSTON, STATION ON SPACE TO GROUND."

2
00:00:05,220 --> 00:00:07,720
WELCOME TO SPACE TO GROUND, I AM KATHRYN CLAYTON.

3
00:00:07,720 --> 00:00:11,130
THE ACTION NEVER STOPS ON THE INTERNATIONAL
SPACE STATION.

4
00:00:11,130 --> 00:00:14,469
THIS WEEK THERE WAS AN EVA, A CARGO RESUPPLY
DELIVERY,

5
00:00:14,469 --> 00:00:17,180
AND PLENTY OF SCIENCE TO KEEP THE CREW BUSY.

6
00:00:17,180 --> 00:00:20,849
ON TUESDAY, NASA ASTRONAUTS ROBERT BEHNKEN
AND CHRIS CASSIDY

7
00:00:20,849 --> 00:00:24,320
PERFORMED A SPACEWALK TO CONDUCT SEVERAL TASKS TO UPGRADE SYSTEMS

8
00:00:24,320 --> 00:00:26,650
AND PREPARE FOR FUTURE STATION UPGRADES.

9
00:00:26,650 --> 00:00:29,180
THE FIRST TASK WAS TO INSTALL A PROTECTIVE
UNIT,

10
00:00:29,180 --> 00:00:31,620
CALLED THE ROBOTIC TOOL STORAGE OR RITS,

11
00:00:31,620 --> 00:00:34,960
USED TO STORE TOOLS SUCH AS THE ROBOTIC EXTERNAL LEAK LOCATOR

12
00:00:34,960 --> 00:00:37,700

FOR THE CANADIAN SPACE AGENCY'S DEXTRE ROBOT.

13
00:00:37,700 --> 00:00:40,540
RITS WAS INSTALLED TO THE STATIONS MOBILE
BASE SYSTEM

14
00:00:40,550 --> 00:00:42,640
WHERE IT CAN TRAVERSE AROUND THE STATION ALONGSIDE

15
00:00:42,640 --> 00:00:44,780
A ROBOT THAT WILL USE THE STORED TOOLS.

16
00:00:44,780 --> 00:00:47,320
IN ADDITION TO INSTALLING THE RITS THE ASTRONAUTS

17
00:00:47,330 --> 00:00:49,410
REMOVED TWO LIFTING FIXTURES AT THE BASE

18
00:00:49,410 --> 00:00:51,120
OF THE STATIONS SOLAR ARRAYS,

19
00:00:51,120 --> 00:00:53,100
COMPLETED TASKS TOWARD TO PREPARE THE OUTSIDE

20
00:00:53,100 --> 00:00:54,960
OF THE TRANQUILITY MODULE FOR THE ARRIVAL

21
00:00:54,960 --> 00:00:56,590
OF THE NANORACKS COMMERCIAL AIRLOCK,

22
00:00:56,590 --> 00:00:58,820
AND ROUTED ETHERNET CABLES AND REMOVED

23
00:00:58,820 --> 00:01:02,020
A LENS FILTER COVER FROM AN EXTERNAL CAMERA.

24
00:01:02,020 --> 00:01:06,820
IN ADDITION TO THE EVA, THE CREW WELCOMED

A CARGO RESUPPLY DELIVERY.

25
00:01:06,820 --> 00:01:09,790
THE UNCREWED RUSSIAN PROGRESS 76 LAUNCHED

26
00:01:09,790 --> 00:01:12,180
ON A SOYUZ ROCKET FROM THE BAIKONUR COSMODROME

27
00:01:12,180 --> 00:01:14,650
IN KASAZHSTAN ON THURSDAY MORING AND DOCKED

28
00:01:14,650 --> 00:01:17,650
TO THE STATIONS RUSSIAN SEGMENT ON THURDAY
AFTERNOON.

29
00:01:17,650 --> 00:01:20,750
PROGRESS 76 DELIVERED ALMOST THREE TONS OF
FOOD,

30
00:01:20,750 --> 00:01:22,330
FUEL AND SUPPLIES.

31
00:01:22,330 --> 00:01:24,080
PROGRESS 76 WILL REMAIN DOCKED

32
00:01:24,080 --> 00:01:25,770
FOR MORE THAN FOUR MONTHS BEORE

33
00:01:25,770 --> 00:01:28,510
DEORBITING INTO THE EARTH'S ATMOSPHERE.

34
00:01:28,510 --> 00:01:30,350
THERE'S ALWAYS TIME FOR SCIENCE

35
00:01:30,350 --> 00:01:33,220
AND RESEARCH ON THE INTERNATIONAL SPACE STATION.

36
00:01:33,220 --> 00:01:35,700

NASA ASTRONAUT DOUG HURLEY CONDUCTED

37
00:01:35,710 --> 00:01:38,049
THE NINTH OF TEN TOTAL PLATE CHANGEOUTS

38
00:01:38,049 --> 00:01:42,010
FOR THE CAPILLARY DRIVEN MICROFLUIDICS IN
SPACE INVESTIGATION.

39
00:01:42,010 --> 00:01:44,850
THIS INVESTIGATION EXAMINES MICROFLUID SYSTEMS

40
00:01:44,850 --> 00:01:47,050
WITH AN AIM TO IMPROVE FLUID CONROL

41
00:01:47,050 --> 00:01:48,670
IN VARIOUS DEVICES.

42
00:01:48,670 --> 00:01:50,280
DIAGNOSTIC DEVICES REQUIRE

43
00:01:50,280 --> 00:01:52,380
THE SEPARATION OF BLOOD CELLS AND PLASMA

44
00:01:52,380 --> 00:01:54,440
IN ORDER TO ANALYZE THE PLASMA WITHOUT

45
00:01:54,440 --> 00:01:57,030
THE INTERFERENCE CAUSED BY THE BLOOD CELLS.

46
00:01:57,030 --> 00:01:59,020
THE INVESTIGATION IN MICROGRAVITY MAY

47
00:01:59,020 --> 00:02:00,920
OBTAIN BETTER PARTICLE SEPARATION,

48
00:02:00,920 --> 00:02:03,400
BLOOD FILTERING, AND IMPROVED FLUID CONTROL

49
00:02:03,400 --> 00:02:05,630
IN FUTURE MEDICAL DEVICES THAT CAN BE USED

50
00:02:05,630 --> 00:02:08,869
IN ANY ENVIRONMENT AND ORIENTATION.

51
00:02:08,869 --> 00:02:10,599
KEEP SENDING IN YOUR QUESTIONS USING