



Spaceto**Ground**

1
00:00:03,020 --> 00:00:04,680
"HOUSTON, STATION ON SPACE TO GROUND."

2
00:00:05,080 --> 00:00:07,500
WELCOME TO SPACE TO GROUND, I'M SANDRA JONES.

3
00:00:07,880 --> 00:00:12,800
THIS WEEK SPACE STATION CREWMEMBERS COMPLETED A SPACEWALK AND PREPARED FOR ONE

4
00:00:12,800 --> 00:00:16,900
CLOSER TO HOME, WE'RE ONE STEP CLOSER TO
LAUNCHING ASTRONAUTS FROM FLORIDA ONCE AGAIN.

5
00:00:18,100 --> 00:00:22,800
ON SUNDAY, SPACEX COMPLETED A SUCCESSFUL TEST DEMONSTRATING THE CAPABILITY OF TH

6
00:00:22,800 --> 00:00:28,010
DRAGON VEHICLE TO CARRY ASTRONAUTS TO SAFETY
IN THE UNLIKELY EVENT OF AN EMERGENCY DURING

7
00:00:28,010 --> 00:00:29,010
ASCENT.

8
00:00:29,010 --> 00:00:33,071
FOLLOWING THE TEST, THE SPACECRAFT SPLASHED
DOWN OFF THE COAST OF CAPE CANAVERAL, AND

9
00:00:33,071 --> 00:00:37,789
TEAMS CONDUCTED RECOVERY OPERATION SIMULATIONS IN PREPARATION FOR A CREWED FLIGH

10
00:00:37,789 --> 00:00:38,720
THIS YEAR.

11
00:00:39,000 --> 00:00:44,100
ON MONDAY, NASA ASTRONAUTS CHRISTINA KOCH
AND JESSICA MEIR CONDUCTED A SPACEWALK TO

12
00:00:44,100 --> 00:00:48,260

REPLACE NICKEL-HYDROGEN BATTERIES WITH MORE POWERFUL LITHIUM-ION BATTERIES.

13

00:00:49,140 --> 00:00:53,640

THIS SPACEWALK ROUNDS OUT THE SERIES OF 4 TO REPLACE AGING BATTERIES ON TWO OF THE POWER

14

00:00:53,649 --> 00:00:58,969

CHANNELS ON THE STATION'S FAR PORT TRUSS.THE SPACEWALK LASTED NEARLY 7 HOURS AND WAS THE

15

00:00:58,969 --> 00:01:04,370

3RD SPACEWALK FOR MEIR AND THE 6TH FOR KOCH WHO CONTINUES TO MAKE HISTORY WITH EACH PASSING

16

00:01:04,370 --> 00:01:08,180

DAY AS THE RECORD HOLDER FOR LONGEST SPACEFLIGHT BY A WOMAN.

17

00:01:08,180 --> 00:01:13,460

WHEN SHE RETURNS TO EARTH ON FEBRUARY 6TH SHE WILL HAVE SPENT A TOTAL OF 328 DAYS ABOARD

18

00:01:13,460 --> 00:01:14,640

THE ORBITING LABORATORY.

19

00:01:15,320 --> 00:01:20,740

ONBOARD STATION, ASTRONAUTS WERE BUSY CONDUCTING THE COLD ATOM LABORATORY EXPERIMENT

20

00:01:20,750 --> 00:01:25,579

THIS INVESTIGATION PRODUCES CLOUDS OF ATOMS THAT ARE CHILLED TO ABOUT ONE TEN BILLIONTH

21

00:01:25,579 --> 00:01:30,960

OF A DEGREE ABOVE ABSOLUTE ZERO—EVEN COLDER THAN THE AVERAGE TEMPERATURE OF DEEP SPACE.

22

00:01:30,960 --> 00:01:35,619

AT THESE TEMPERATURES, ATOMS HAVE ALMOST NO MOTION, ALLOWING SCIENTISTS TO STUDY FUNDAMENTAL

23

00:01:35,619 --> 00:01:40,290

BEHAVIORS AND QUANTUM CHARACTERISTICS FOR
LONGER PERIODS OF TIME.

24

00:01:40,290 --> 00:01:44,380

THIS WEEK'S QUESTION COMES FROM CHRISTINE
WHO WANTS TO KNOW IF A SPACEWALK TO FINISH

25

00:01:44,380 --> 00:01:47,630

WORK ON THE ALPHA MAGNETIC SPECTROMETER HAS BEEN SCHEDULED?

26

00:01:47,630 --> 00:01:48,940

IT SURE HAS, CHRISTINE!

27

00:01:49,700 --> 00:01:55,240

ON SATURDAY NASA ASTRONAUT ANDREW MORGAN AND EUROPEAN SPACE AGENCY ASTRONAUT

28

00:01:55,250 --> 00:01:59,979

ARE SLATED TO COMPLETE THE FINAL SPACEWALK
TO REPAIR THE ALPHA MAGNETIC SPECTROMETER,

29

00:01:59,979 --> 00:02:04,479

INSURING THE INSTRUMENT CAN CONTINUE TO HUNT
FOR PARTICLES LIKE ANTIMATTER AND DARK MATTER

30

00:02:04,479 --> 00:02:09,430

AND GIVE US BETTER INSIGHT INTO THE ORIGINS
OF THE UNIVERSE FOR YEARS TO COME.