



# SPACE TO GROUND

1  
00:00:00,606 --> 00:00:02,800  
"HOUSTON, STATION  
ON SPACE TO GROUND."

2  
00:00:03,566 --> 00:00:05,726  
SPLASH DOWN IN THE  
PACIFIC OCEAN!

3  
00:00:06,486 --> 00:00:08,776  
WELCOME TO SPACE TO  
GROUND, I'M ISIDRO REYNA.

4  
00:00:09,246 --> 00:00:13,206  
SPACE X'S DRAGON SPLASHED DOWN  
ON MARCH 19, MARKING THE END

5  
00:00:13,206 --> 00:00:14,876  
TO ITS TENTH RESUPPLY MISSION.

6  
00:00:15,596 --> 00:00:18,656  
MORE THAN FIFTY-FOUR HUNDRED  
POUNDS OF CARGO, SCIENCE

7  
00:00:18,656 --> 00:00:21,346  
AND TECHNOLOGY DEMONSTRATION  
SAMPLES MADE IT BACK TO EARTH

8  
00:00:21,346 --> 00:00:23,956  
ON DRAGON, WITH THE MAJORITY  
BOUND FOR LABORATORIES

9  
00:00:23,956 --> 00:00:25,296  
AROUND THE GLOBE FOR ANALYSIS.

10  
00:00:25,856 --> 00:00:29,146  
ONE PAYLOAD, THE  
MICROGRAVITY EXPANDED STEM CELLS

11  
00:00:29,146 --> 00:00:31,886

INVESTIGATION, HAD CREW  
MEMBERS OBSERVE CELL GROWTH

12

00:00:31,886 --> 00:00:33,856

AND OTHER CHARACTERISTICS  
IN MICROGRAVITY.

13

00:00:34,256 --> 00:00:36,276

THE RESULTS FROM THIS  
INVESTIGATION COULD LEAD

14

00:00:36,276 --> 00:00:38,606

TO THE TREATMENT OF  
DISEASE AND INJURY IN SPACE,

15

00:00:38,966 --> 00:00:41,586

AS WELL AS PROVIDE A WAY TO  
IMPROVE STEM CELL PRODUCTION

16

00:00:41,666 --> 00:00:42,956

FOR HUMAN THERAPY ON EARTH.

17

00:00:43,876 --> 00:00:47,756

THIS WEEK, ASTRONAUTS ONBOARD  
THE STATION CONDUCTED THE FIRST

18

00:00:47,956 --> 00:00:49,556

OF THREE SCHEDULED SPACEWALKS.

19

00:00:50,346 --> 00:00:52,716

EXPEDITION 50 COMMANDER  
SHANE KIMBROUGH

20

00:00:52,926 --> 00:00:56,126

AND FLIGHT ENGINEER THOMAS  
PESQUET DISCONNECTED CABLES

21

00:00:56,266 --> 00:00:57,436

AND ELECTRICAL CONNECTIONS

22  
00:00:57,436 --> 00:00:59,506  
ON THE PRESSURIZED  
MATING ADAPTER-3.

23  
00:01:00,186 --> 00:01:01,776  
THIS WILL PREPARE  
THE MATING ADAPTER

24  
00:01:01,776 --> 00:01:05,456  
FOR ITS ROBOTIC MOVE MARCH 26,  
LEADING THE WAY FOR INSTALLATION

25  
00:01:05,456 --> 00:01:07,716  
OF THE SECOND INTERNATIONAL  
DOCKING ADAPTER.

26  
00:01:08,126 --> 00:01:09,846  
THE ADAPTER WILL BE  
USED FOR THE ARRIVAL

27  
00:01:09,846 --> 00:01:11,586  
OF COMMERCIAL CREW  
VEHICLES IN THE FUTURE.

28  
00:01:12,126 --> 00:01:15,486  
THE SPACEWALKERS INSTALLED A  
NEW COMPUTER RELAY BOX EQUIPPED

29  
00:01:15,486 --> 00:01:17,226  
WITH ADVANCED SOFTWARE  
FOR THE ADAPTER.

30  
00:01:17,686 --> 00:01:19,916  
THEY ALSO LUBRICATED THE  
LATCHING END EFFECTOR

31  
00:01:19,916 --> 00:01:21,286  
ON THE DEXTRE ROBOTIC ARM,

32

00:01:21,476 --> 00:01:23,516  
INSPECTED A RADIATOR  
VALVE SUSPECTED

33  
00:01:23,516 --> 00:01:25,836  
OF A SMALL AMMONIA LEAK  
AND REPLACED CAMERAS

34  
00:01:25,836 --> 00:01:27,606  
ON THE JAPANESE SEGMENT  
OF THE OUTPOST.

35  
00:01:28,046 --> 00:01:30,956  
THIS WAS THE 198TH  
SPACEWALK IN SUPPORT

36  
00:01:30,956 --> 00:01:32,646  
OF SPACE STATION  
ASSEMBLY AND MAINTENANCE.

37  
00:01:33,686 --> 00:01:37,166  
OUR TWITTER QUESTION THIS WEEK  
COMES FROM @ SAM I AM SCIENCE.

38  
00:01:37,556 --> 00:01:39,836  
HE WANTED TO KNOW WHAT A  
TORNADO LOOKS LIKE FROM SPACE.

39  
00:01:40,426 --> 00:01:42,596  
WELL, TORNADOES LOOK  
LIKE A VARIETY

40  
00:01:42,596 --> 00:01:43,796  
OF THUNDERSTORMS FROM SPACE.

41  
00:01:44,546 --> 00:01:45,126  
CREW MEMBERS

42  
00:01:45,126 --> 00:01:47,606  
ON THE INTERNATIONAL SPACE

STATION PHOTOGRAPH THE EARTH

43

00:01:47,606 --> 00:01:48,986  
FROM THEIR UNIQUE POINT OF VIEW.

44

00:01:49,506 --> 00:01:52,596  
PHOTOGRAPHS RECORD HOW THE  
PLANET IS CHANGING OVER TIME,

45

00:01:52,946 --> 00:01:55,526  
FROM HUMAN-CAUSED  
CHANGES LIKE URBAN GROWTH

46

00:01:55,526 --> 00:01:58,486  
AND RESERVOIR CONSTRUCTION,  
TO NATURAL DYNAMIC EVENTS

47

00:01:58,486 --> 00:02:01,436  
SUCH AS HURRICANES, FLOODS  
AND VOLCANIC ERUPTIONS.

48

00:02:01,716 --> 00:02:04,286  
YOU CAN VISIT OUR GATEWAY TO  
ASTRONAUT PHOTOGRAPHY PAGE

49

00:02:04,286 --> 00:02:06,926  
TO VIEW THESE STUNNING IMAGES.

50

00:02:06,926 --> 00:02:09,036  
KEEP SENDING YOUR  
QUESTIONS USING THE HASHTAG