



# SPACE TO GROUND

1  
00:00:00,940 --> 00:00:02,996  
"HOUSTON, STATION  
ON SPACE TO GROUND."

2  
00:00:02,996 --> 00:00:04,866  
WELCOME TO SPACE TO  
GROUND, I'M GARY JORDAN.

3  
00:00:05,166 --> 00:00:07,886  
ROCKETING THROUGH THEIR  
PRIMARY TASKS AND TYING THE BOW

4  
00:00:07,886 --> 00:00:11,376  
ON A FEW GET-AHEADS, MARK VANDE  
HEI AND NORISHIGE KANAI WRAPPED

5  
00:00:11,376 --> 00:00:12,876  
UP A SUCCESSFUL SPACEWALK.

6  
00:00:13,986 --> 00:00:16,636  
IT WAS A SHORT SPACEWALK FOR  
THE DUO, TIMING OUT AT JUST

7  
00:00:16,666 --> 00:00:19,086  
UNDER 6 HOURS, BUT THEY  
REALLY GOT A LOT DONE.

8  
00:00:19,496 --> 00:00:21,026  
THEY MOVED SOME LATCHING  
END EFFECTORS

9  
00:00:21,026 --> 00:00:22,476  
FROM THE STATION'S ROBOTIC ARM,

10  
00:00:22,636 --> 00:00:25,256  
ONE OF WHICH WAS BROUGHT  
INSIDE THE STATION TO BE STORED

11  
00:00:25,256 --> 00:00:26,996

IN THE BEAM MODULE  
UNTIL ITS RETURN

12  
00:00:26,996 --> 00:00:28,576  
TO EARTH FOR REFURBISHMENT.

13  
00:00:28,876 --> 00:00:31,246  
THEY FINISHED THIS PRIMARY  
GOAL A BIT AHEAD OF SCHEDULE,

14  
00:00:31,306 --> 00:00:34,106  
SO THEY HAD SOME TIME TO DO  
SOME EXTRA TASKS LIKE TYING

15  
00:00:34,106 --> 00:00:37,436  
DOWN COMPONENTS AT ONE END OF  
THE ROBOTIC ARM AND GREASING

16  
00:00:37,436 --> 00:00:38,976  
UP THE END EFFECTOR  
ON THE OTHER END.

17  
00:00:39,576 --> 00:00:42,696  
THIS 5 HOUR AND 57 MINUTE  
SPACEWALK BRINGS SPACEWALKS

18  
00:00:42,696 --> 00:00:44,686  
FOR EXPEDITION 54 TO A CLOSE.

19  
00:00:45,056 --> 00:00:48,086  
THE 3 SPACEWALKS THIS YEAR --  
2 OF THEM FROM THE USOS SIDE

20  
00:00:48,086 --> 00:00:51,916  
AND ONE RUSSIAN SPACEWALK --  
TOTAL 21 HOURS AND 34 MINUTES.

21  
00:00:52,796 --> 00:00:55,546  
AND WITH THE FINAL SPACEWALK  
OF EXPEDITION 54 COMPLETE,

22  
00:00:55,836 --> 00:00:58,246  
IT'S TIME FOR SOME OF THE CREW  
TO GET READY TO COME HOME.

23  
00:00:58,986 --> 00:01:01,716  
FLIGHT ENGINEERS MARK VANDE  
HEI AND JOE ACABA OF NASA

24  
00:01:01,716 --> 00:01:04,886  
AND COMMANDER ALEXANDER MISURKIN  
OF ROSCOSMOS ARE GETTING READY

25  
00:01:04,886 --> 00:01:06,946  
TO UNDOCK FROM THE  
STATION NEXT WEEK.

26  
00:01:06,996 --> 00:01:09,366  
THEY'LL START WITH A  
CHANGE OF COMMAND CEREMONY

27  
00:01:09,366 --> 00:01:11,616  
WHERE MISURKIN WILL HAND  
OVER COMMAND OF THE STATION

28  
00:01:11,616 --> 00:01:14,346  
TO COSMONAUT ANTON  
SHKAPLEROV BEFORE HIS DEPARTURE.

29  
00:01:14,846 --> 00:01:17,146  
THEY'LL SAY FAREWELL THE  
NEXT DAY BEFORE DETATCHING

30  
00:01:17,146 --> 00:01:19,486  
FROM THE STATION AND BEGINNING  
THEIR THREE-AND-A-HALF-HOUR

31  
00:01:19,486 --> 00:01:20,106  
RIDE HOME.

32

00:01:20,556 --> 00:01:23,956  
CHECK OUT NASA.GOV/NTV  
TO SEE THE LATEST TIMES

33

00:01:23,956 --> 00:01:25,796  
ON HOW YOU CAN WATCH  
THESE EVENTS LIVE.

34

00:01:26,296 --> 00:01:28,366  
BUT BEFORE HE GOES HOME,  
JOE ACABA CONNECTED

35

00:01:28,366 --> 00:01:30,906  
WITH THE PARA LOS NINOS  
SCHOOL IN LOS ANGELES TO TALK

36

00:01:30,906 --> 00:01:33,186  
ABOUT HIS EXPERIENCES  
ABOARD THE SPACE STATION.

37

00:01:34,166 --> 00:01:36,276  
"WHAT DOES IT FEEL  
LIKE TO WALK IN SPACE?"

38

00:01:37,696 --> 00:01:41,076  
"YEAH, IT'S PRETTY EXCITING  
AND IT'S, IT'S VERY VERY COOL.

39

00:01:41,416 --> 00:01:44,356  
IT'S A GREAT EXPERIENCE,  
BUT IT'S KIND OF WEIRD

40

00:01:44,356 --> 00:01:46,606  
WHEN YOU GO OUTSIDE  
AND YOU LOOK DOWN,

41

00:01:46,756 --> 00:01:49,566  
AND YOU SEE THE EARTH  
250 MILES BELOW YOU.

42

00:01:50,076 --> 00:01:51,576

IT CAN BE SCARY FOR A WHILE

43

00:01:51,666 --> 00:01:53,726

UNTIL YOU REALIZE HEY  
I'M NOT GOING TO FALL,

44

00:01:54,096 --> 00:01:56,456

BUT IT'S A GREAT EXPERIENCE  
AND I'M GLAD I'VE HAD

45

00:01:56,456 --> 00:01:58,236

THAT OPPORTUNITY  
AND HOPEFULLY SOME

46

00:01:58,236 --> 00:01:59,876

OF YOU WILL GET A CHANCE  
TO DO THAT AS WELL."

47

00:02:00,816 --> 00:02:03,206

SHEA ON TWITTER ASKED HOW  
THE HUMAN BODY IS AFFECTED.

48

00:02:03,206 --> 00:02:06,136

WELL, IF YOU'RE AN EDUCATOR,  
YOU CAN SHARE THE ANSWER

49

00:02:06,136 --> 00:02:08,306

WITH YOUR STUDENTS IN  
A NEW NASA CURRICULUM.

50

00:02:09,086 --> 00:02:12,046

IN THE CURRICULUM, CALLED "HEART  
TO HEART," STUDENTS CAN STEP

51

00:02:12,086 --> 00:02:14,736

INTO THE SHOES OF A FLIGHT  
SURGEON, LEARNING WHAT THEY DO

52

00:02:14,736 --> 00:02:17,126  
AND HOW THEY HELP TO KEEP  
ASTRONAUTS HEALTHY IN SPACE,

53

00:02:17,636 --> 00:02:19,446  
ESPECIALLY IN THEIR  
CARDIOVASCULAR SYSTEM.

54

00:02:19,906 --> 00:02:22,416  
HERE'S A HINT - WORKING  
OUT REALLY HELPS.