



# SPACE TO GROUND

1  
00:00:00,386 --> 00:00:02,776  
HOUSTON, STATION  
ON SPACE TO GROUND.

2  
00:00:03,286 --> 00:00:06,506  
SPECIAL DELIVERY FOR THE  
INTERNATIONAL SPACE STATION.

3  
00:00:07,126 --> 00:00:09,406  
WELCOME TO SPACE TO  
GROUND, I'M DAN HUOT.

4  
00:00:09,686 --> 00:00:12,316  
AN EVENTFUL WEEK IN SPACE  
KICKED OFF ON SUNDAY

5  
00:00:12,316 --> 00:00:14,416  
WITH A LAUNCH FROM  
CLOUDY FLORIDA.

6  
00:00:15,166 --> 00:00:17,646  
SPACEX'S FALCON 9  
ROCKET LIFTED OFF,

7  
00:00:17,736 --> 00:00:19,676  
AND SENT DRAGON TOWARDS  
THE STATION

8  
00:00:19,676 --> 00:00:22,046  
ON ITS TENTH COMMERCIAL  
RESUPPLY MISSION.

9  
00:00:22,476 --> 00:00:26,376  
THE SPACECRAFT, PACKED WITH  
ABOUT 5,500 POUNDS OF SCIENCE

10  
00:00:26,466 --> 00:00:29,886  
AND SUPPLIES, ABORTED ITS FIRST  
RENDEZVOUS ATTEMPT ON WEDNESDAY

11  
00:00:29,886 --> 00:00:33,516  
BUT WAS SUCCESSFUL THE SECOND  
TIME AROUND ON THURSDAY.

12  
00:00:33,896 --> 00:00:35,546  
ASTRONAUTS THOMAS PESQUET

13  
00:00:35,546 --> 00:00:38,316  
AND SHANE KIMBROUGH USED  
THE STATION'S ROBOTIC ARM

14  
00:00:38,626 --> 00:00:41,516  
TO GRAPPLE THE VEHICLE BEFORE  
MISSION CONTROL TOOK OVER

15  
00:00:41,786 --> 00:00:43,936  
AND ATTACHED DRAGON  
TO THE HARMONY MODULE.

16  
00:00:44,216 --> 00:00:47,186  
DRAGON DELIVERED LITERALLY  
TONS OF COOL SCIENCE

17  
00:00:47,186 --> 00:00:49,546  
AND TECHNOLOGY PAYLOADS  
THAT WE'LL BE SURE

18  
00:00:49,546 --> 00:00:50,996  
TO HIGHLIGHT IN THE  
WEEKS TO COME.

19  
00:00:52,026 --> 00:00:54,206  
AND LAUNCHING FROM  
SNOWY KAZAKHSTAN,

20  
00:00:54,266 --> 00:00:57,286  
A RUSSIAN PROGRESS RESUPPLY  
CRAFT ALSO MADE THE TRIP

21

00:00:57,356 --> 00:00:57,756  
TO SPACE.

22  
00:00:58,916 --> 00:01:02,526  
PACKED WITH MORE THAN THREE  
TONS OF FOOD, FUEL AND SUPPLIES

23  
00:01:02,526 --> 00:01:06,026  
FOR THE EXPEDITION 50  
CREW, PROGRESS 66 LAUNCHED

24  
00:01:06,026 --> 00:01:08,526  
ON A FRIGID WEDNESDAY  
MORNING IN KAZAKHSTAN.

25  
00:01:09,106 --> 00:01:12,596  
THE SPACECRAFT EXECUTED A TWO  
DAY CHASE OF THE SPACE STATION,

26  
00:01:12,826 --> 00:01:14,886  
ULTIMATELY DOCKING  
ON FRIDAY MORNING.

27  
00:01:15,496 --> 00:01:18,676  
IT'S SCHEDULED TO REMAIN  
ATTACHED TO STATION UNTIL JUNE

28  
00:01:18,866 --> 00:01:22,476  
WHEN IT WILL DEPART, PACKED WITH  
TRASH AND OTHER DISPOSABLE ITEMS

29  
00:01:22,666 --> 00:01:24,296  
AND BURN UP IN EARTH'S  
ATMOSPHERE.

30  
00:01:25,406 --> 00:01:27,976  
OUR VIEWER QUESTION THIS  
WEEK COMES FROM JACK POLCEN

31  
00:01:27,976 --> 00:01:31,416

IN MR. TELLSTROM'S 4TH GRADE  
CLASS AT SUNRISE ELEMENTARY.

32

00:01:31,766 --> 00:01:34,306  
JACK WANTED TO KNOW IF  
THE ASTRONAUTS CAN FEEL

33

00:01:34,306 --> 00:01:35,536  
THAT THE SPACE STATION  
IS MOVING.

34

00:01:35,966 --> 00:01:38,956  
DURING CERTAIN MANEUVERS,  
THEY SURE CAN.

35

00:01:39,376 --> 00:01:42,726  
THE STATION REGULARLY PERFORMS  
WHAT IS CALLED A REBOOST,

36

00:01:43,076 --> 00:01:46,296  
FIRING ENGINES ON A DOCKED  
VEHICLE OR THE STATION ITSELF

37

00:01:46,356 --> 00:01:47,466  
TO RAISE ITS ALTITUDE.

38

00:01:48,176 --> 00:01:48,916  
WHEN THIS HAPPENS,

39

00:01:48,976 --> 00:01:51,616  
THE ASTRONAUTS CAN FEEL  
THE STATION ACCELERATING,

40

00:01:51,926 --> 00:01:54,176  
MUCH LIKE YOU FEEL IT  
WHEN A CAR ACCELERATES

41

00:01:54,176 --> 00:01:55,296  
OR A PLANE TAKES OFF.

42  
00:01:55,296 --> 00:01:57,296  
SOMETIMES THEY'LL DO  
MINI-DEMONSTRATIONS WITH OBJECTS

43  
00:01:57,296 --> 00:01:58,616  
OR EVEN THEMSELVES TO SHOW  
HOW THE STATION IS MOVING

44  
00:01:58,646 --> 00:01:58,886  
AROUND THEM.

45  
00:01:58,916 --> 00:02:00,086  
KEEP SENDING YOUR  
QUESTIONS USING THE HASHTAG

46  
00:02:00,116 --> 00:02:01,106  
SPACE-TO-GROUND, WE'LL  
SEE YOU NEXT WEEK.

47  
00:02:01,136 --> 00:02:02,696  
Alternate Progress story AND  
LAUNCHING FROM SNOWY KAZAKHSTAN,

48  
00:02:02,726 --> 00:02:04,106  
A RUSSIAN PROGRESS RESUPPLY  
CRAFT ALSO MADE THE TRIP

49  
00:02:04,136 --> 00:02:04,346  
TO SPACE.

50  
00:02:04,376 --> 00:02:05,846  
PACKED WITH MORE THAN THREE  
TONS OF FOOD, FUEL AND SUPPLIES

51  
00:02:05,876 --> 00:02:07,436  
FOR THE EXPEDITION 50  
CREW, PROGRESS 66 LAUNCHED

52  
00:02:07,466 --> 00:02:08,606

ON A FRIGID WEDNESDAY  
MORNING IN KAZAKHSTAN.

53  
00:02:08,636 --> 00:02:10,316  
THE SPACECRAFT IS HEADED TOWARDS  
THE SPACE STATION AND WILL DOCK

54  
00:02:10,346 --> 00:02:11,606  
WITH THE PIRS COMPARTMENT  
ON THE RUSSIAN SEGMENT.

55  
00:02:11,636 --> 00:02:13,016  
IT'S SCHEDULED TO REMAIN  
ATTACHED TO STATION UNTIL JUNE

56  
00:02:13,046 --> 00:02:14,726  
WHEN IT WILL DEPART, PACKED WITH  
TRASH AND OTHER DISPOSABLE ITEMS