



# Space**to**Ground

1  
00:00:03,030 --> 00:00:05,020  
"HOUSTON, STATION ON SPACE TO GROUND."

2  
00:00:05,020 --> 00:00:07,502  
WELCOME TO SPACE TO GROUND AND HAPPY NEW YEAR!

3  
00:00:07,502 --> 00:00:09,050  
I'M LEAH CHESHIER.

4  
00:00:09,050 --> 00:00:12,349  
THIS WEEK, A CARGO SPACECRAFT DEPARTED THE  
ORBITING LABORATORY

5  
00:00:12,349 --> 00:00:14,836  
WHILE ANOTHER PREPARES TO DO THE SAME.

6  
00:00:15,026 --> 00:00:16,920  
ON WEDNESDAY, JANUARY 6,

7  
00:00:16,920 --> 00:00:19,550  
NORTHROP GRUMMAN'S CYGNUS RESUPPLY SPACECRAFT

8  
00:00:19,550 --> 00:00:22,350  
DEPARTED AFTER MORE THAN 3 MONTHS ONBOARD.

9  
00:00:22,350 --> 00:00:24,730  
THIS 14TH RESUPPLY MISSION FROM THE COMPANY

10  
00:00:24,730 --> 00:00:27,120  
LAUNCHED ON OCT. 2, 2020,

11  
00:00:27,120 --> 00:00:29,320  
ARRIVING AT THE STATION OCTOBER 5th

12  
00:00:29,320 --> 00:00:32,510  
AND DELIVERING NEARLY 8,000 POUNDS OF CREW  
SUPPLIES,

13  
00:00:32,510 --> 00:00:35,440  
HARDWARE, RESEARCH EXPERIMENTS AND MORE.

14  
00:00:35,440 --> 00:00:37,470  
AFTER UNLOADING THE PRECIOUS CARGO,

15  
00:00:37,470 --> 00:00:39,167  
ASTRONAUTS FILLED CYGNUS WITH TRASH

16  
00:00:39,167 --> 00:00:40,780  
TO BURN UP WITH THE VEHICLE

17  
00:00:40,780 --> 00:00:43,420  
UPON ITS FIREY REENTRY INTO EARTH'S ATMOSPHERE

18  
00:00:43,420 --> 00:00:45,420  
AFTER COMPLETING ITS SECONDARY MISSION

19  
00:00:45,420 --> 00:00:47,106  
IN ORBIT OVER THE NEXT SEVERAL WEEKS.

20  
00:00:48,000 --> 00:00:49,949  
SPACEX'S CARGO DRAGON WILL BE

21  
00:00:49,949 --> 00:00:52,102  
THE NEXT DEPARTURE FROM THE SPACE STATION,

22  
00:00:52,102 --> 00:00:53,940  
SCHEDULED TO UNDOCK FOR A SPLASHDOWN

23  
00:00:53,940 --> 00:00:56,829  
IN THE ATLANTIC OCEAN ON JANUARY 11th.

24  
00:00:56,829 --> 00:00:59,780  
YOU CAN WATCH UNDOCKING ON THE AGENCY'S  
WEBSITE.

25

00:01:00,478 --> 00:01:02,999  
WHILE I PERSONALLY CAN'T KEEP A CACTUS ALIVE,

26  
00:01:02,999 --> 00:01:04,680  
CREW MEMBERS ARE PROVING YET AGAIN THAT

27  
00:01:04,680 --> 00:01:07,520  
THEY CAN GROW PLANTS IN SPACE.

28  
00:01:07,520 --> 00:01:08,930  
FUTURE LONG DURATION MISSIONS

29  
00:01:08,930 --> 00:01:11,130  
TO THE MOON OR MARS WILL REQUIRE ASTRONAUTS

30  
00:01:11,130 --> 00:01:12,335  
TO GROW THEIR OWN FOOD,

31  
00:01:12,335 --> 00:01:14,409  
A CAPABILITY BEING TESTED ABOARD

32  
00:01:14,409 --> 00:01:16,020  
THE INTERNATIONAL SPACE STATION WITH

33  
00:01:16,020 --> 00:01:17,729  
THE VEGGIE EXPERIMENT.

34  
00:01:17,729 --> 00:01:19,549  
THIS WEEK, ASTRONAUTS INSTALLED

35  
00:01:19,549 --> 00:01:21,939  
THE ROOT MAT AND SMALL PLANT PILLOWS NEEDED

36  
00:01:21,939 --> 00:01:24,500  
TO BEGIN GROWING EXTRA DWARF PAK CHOI,

37  
00:01:24,500 --> 00:01:26,829  
AMARA MUSTARD, AND RED ROMAINE LETTUCE

38  
00:01:26,829 --> 00:01:29,525  
AS PART OF THE VEG-03 INVESTIGATION.

39  
00:01:29,525 --> 00:01:31,350  
AS THE PLANTS GROW, CREW MEMBERS WILL

40  
00:01:31,350 --> 00:01:33,149  
TAKE PHOTOS FOR GROUND ANALYSIS

41  
00:01:33,149 --> 00:01:35,439  
ON PLANT GROWTH RATES AND HEALTH.

42  
00:01:35,439 --> 00:01:37,159  
THESE PLANTS WILL BE HARVESTED ON-ORBIT

43  
00:01:37,159 --> 00:01:40,040  
AND SAMPLES WILL BE RETURNED TO EARTH FOR  
TESTING.

44  
00:01:40,040 --> 00:01:41,170  
RESULTS FROM THIS EXPERIMENT

45  
00:01:41,170 --> 00:01:42,920  
COULD ALSO BENEFIT AGRICULTURAL

46  
00:01:42,920 --> 00:01:45,229  
AND BIOMASS PRODUCTION EFFORTS ON EARTH

47  
00:01:45,229 --> 00:01:47,070  
BY CONTRIBUTING TO BASIC RESEARCH

48  
00:01:47,070 --> 00:01:48,689  
ON PLANT CULTIVATION.

49  
00:01:49,736 --> 00:01:52,040  
THAT'LL DO IT FOR US THIS WEEK ON SPACE  
TO GROUND.

