
SpacetoGround

1
00:00:03,220 --> 00:00:07,960
WELCOME TO SPACE TO GROUND, I AM KATHRYN CLAYTON, THE INTERNATIONAL SPACE STATION

2
00:00:07,960 --> 00:00:13,130
FLURRY OF ACTIVITY WITH THE BACK TO BACK ARRIVAL OF CARGO SHIPS LOADED WITH SCIENCE

3
00:00:13,130 --> 00:00:15,520
FOR THE SPACE STATION CREW.

4
00:00:15,520 --> 00:00:20,390
EARLY SUNDAY MORNING THE SPACEX DRAGON CARGO SPACECRAFT WAS INSTALLED ON THE EA

5
00:00:20,390 --> 00:00:24,949
SIDE OF THE HARMONY MODULE 3 DAYS AFTER ITS LAUNCH FROM CAPE CANAVERAL AIR FORCE S

6
00:00:24,949 --> 00:00:26,329
IN FLORIDA.

7
00:00:26,329 --> 00:00:31,329
EUROPEAN SPACE AGENCY ASTRONAUT LUCA PARMITANO GRAPPLED THE DRAGON USING THE S

8
00:00:31,329 --> 00:00:36,330
ROBOTIC ARM, CANADARM 2, AND NASA ASTRONAUT ANDREW MORGAN PROVIDED BACKUP.

9
00:00:36,330 --> 00:00:43,200
THE SPACEX DRAGON BRINGS 5,700 POUNDS OF RESEARCH, CREW SUPPLIES AND HARDWARE TO

10
00:00:43,200 --> 00:00:47,680
DRAGON WILL SPEND ABOUT ONE MONTH AT THE STATION AND THEN RETURN TO EARTH WITH CA

11
00:00:47,680 --> 00:00:49,000
RESULTS.

12
00:00:49,000 --> 00:00:53,630
THE VERY NEXT MORNING THE RUSSIAN PROGRESS 74 CARGO RESUPPLY DOCKED TO THE PIRS D

13
00:00:53,630 --> 00:00:56,770

COMPARTMENT ON THE RUSSIAN SEGMENT OF THE SPACE STATION.

14
00:00:56,770 --> 00:01:01,520
PROGRESS 74 SPENT THREE DAYS IN ORBIT BEFORE DOCKING TO THE ISS AFTER LAUNCHING FRO

15
00:01:01,520 --> 00:01:04,100
BAIKONUR COSMODROME IN KAZAKHSTAN.

16
00:01:04,100 --> 00:01:09,420
PROGRESS ARRIVED WITH ALMOST THREE TONS OF FOOD, FUEL AND SUPPLIES FOR THE EXPEDIT

17
00:01:09,600 --> 00:01:13,460
PROGRESS 74 WILL REMAIN AT THE STATION UNTIL JULY 2020.

18
00:01:13,760 --> 00:01:18,340
THE ACTIVITY DOESN'T STOP THERE, THE RESUPPLY BRINGS LOTS OF GROUNDBREAKING SCIENC

19
00:01:18,350 --> 00:01:21,080
THE CREW WORKING HARD.

20
00:01:21,080 --> 00:01:24,540
NUTRITION ON LONG DURATION SPACEFLIGHTS WILL CONTINUE TO BE AN IMPORTANT RESEARCH

21
00:01:24,540 --> 00:01:30,260
THE MALTING BARLEY IN MICROGRAVITY INVESTIGATION WILL TEST AN AUTOMATED MALTING PRO

22
00:01:30,260 --> 00:01:34,210
THEN COMPARE THE MALT PRODUCED IN SPACE TO MALT PRODUCED ON THE GROUND FOR GENE

23
00:01:34,210 --> 00:01:35,770
STRUCTURAL CHANGES.

24
00:01:35,770 --> 00:01:40,180
THE MALTING PROCESS CONVERTS RAW GRAIN INTO MALT BY CHANGING THE GRAINS STARCHES

25
00:01:40,180 --> 00:01:41,720
VARIOUS SUGARS.

26
00:01:41,720 --> 00:01:46,290
UNDERSTANDING HOW BARLEY RESPONDS IN MICROGRAVITY WILL HELP SCIENTISTS IDENTIFY WA

27
00:01:46,290 --> 00:01:51,130
BARLEY FOR NUTRITIONAL USES ON FUTURE LONG DURATION SPACEFLIGHT MISSIONS.

28
00:01:51,130 --> 00:01:57,460
THERE IS A SENSE OF EXCITEMENT AS PREPARATIONS FINALIZE FOR THE LAUNCH OF THE BOEINC

29
00:01:58,200 --> 00:02:02,120
THE STARLINER SPACECRAFT WILL LAUNCH FROM CAPE CANAVERAL TO THE SPACE STATION FOR

30
00:02:02,130 --> 00:02:06,520
UNCREWED ORBITAL FLIGHT TEST FOR NASA'S
COMMERCIAL CREW PROGRAM.

31
00:02:06,520 --> 00:02:10,950
THE FLIGHT TEST WILL PROVIDE VALUABLE DATA
ON PERFORMANCE OF THE ATLAS V ROCKET, THE

32
00:02:10,950 --> 00:02:16,150
STARLINER SPACECRAFT, THE GROUND SYSTEMS, AND IN-ORBIT, DOCKING AND LANDING OPERAT