



Spaceto**Ground**

1
00:00:03,110 --> 00:00:04,790
"HOUSTON, STATION ON SPACE TO GROUND."

2
00:00:04,790 --> 00:00:07,520
WELCOME TO SPACE TO GROUND, I AM KAYLA LAFRANCE.

3
00:00:07,520 --> 00:00:10,519
A NEW CARGO VEHICLE HAS ARRIVED AT THE STATION,

4
00:00:10,519 --> 00:00:13,309
BRINGING WITH IT A VARIETY OF NEW SCIENCE
EXPERIMENTS

5
00:00:13,309 --> 00:00:15,780
TO BE CONDUCTED ONBOARD.

6
00:00:15,780 --> 00:00:18,590
AFTER ITS LAUNCH ON MARCH 6TH, U.S. TIME,

7
00:00:18,590 --> 00:00:22,570
THE SPACEX CRS-20 DRAGON CAPSULE RENDEZVOUSED

8
00:00:22,570 --> 00:00:24,830
WITH THE ORBITING LABORATORY, BRINGING WITH IT

9
00:00:24,830 --> 00:00:27,130
MORE THAN TWO TONS OF CARGO.

10
00:00:27,130 --> 00:00:29,650
ON MONDAY, NASA ASTRONAUTS JESSICA MEIR

11
00:00:29,650 --> 00:00:32,680
AND ANDREW MORGAN USED THE CANADIAN ROBOTIC ARM

12
00:00:32,680 --> 00:00:35,870
ON THE SPACE STATION TO CAPTURE THE DRAGON
CARGO VEHICLE

13
00:00:35,870 --> 00:00:39,200
AND BERTH IT TO THE NODE 2 NADIR PORT.

14
00:00:39,200 --> 00:00:40,900
STOWED AWAY ON CRS-20

15
00:00:40,900 --> 00:00:43,070
WAS MANY NEW SCIENTIFIC EXPERIMENTS

16
00:00:43,070 --> 00:00:44,460
FOR THE CREW TO PERFORM,

17
00:00:44,460 --> 00:00:47,170
INCLUDING BIOLOGICAL RESEARCH INVESTIGATIONS

18
00:00:47,170 --> 00:00:50,310
STUDYING MICROGRAVITY'S IMPACT ON STEM CELLS,

19
00:00:50,310 --> 00:00:54,170
INTESTINAL DISEASES AND CHEMICAL REACTIONS.

20
00:00:54,170 --> 00:00:55,350
DRAGON BROUGHT THE FIRST

21
00:00:55,350 --> 00:00:57,910
EXTERNAL COMMERCIAL RESEARCH PLATFORM TO BE

22
00:00:57,910 --> 00:01:00,760
INSTALLED ON THE STATION CALLED BARTOLOMEO,

23
00:01:00,760 --> 00:01:02,010
NAMED FOR THE YOUNGER BROTHER OF

24
00:01:02,010 --> 00:01:04,220
EXPLORER CHRISTOPHER COLUMBUS.

25
00:01:04,220 --> 00:01:06,760

THIS EXTERNAL PAYLOAD PLATFORM WAS DEVELOPED

26

00:01:06,760 --> 00:01:09,171

BY GERMANY'S AIRBUS DEFENSE AND SPACE,

27

00:01:09,171 --> 00:01:12,800

AND WILL BE OPERATED BY THE EUROPEAN SPACE
AGENCY.

28

00:01:12,800 --> 00:01:15,590

BARTOLOMEO WILL PROVIDE POWER AND DATA TRANSMISSION

29

00:01:15,590 --> 00:01:17,740

FOR UP TO 12 PAYLOADS THAT ARE MOUNTED

30

00:01:17,740 --> 00:01:20,370

OUTSIDE THE ORBITING LABORATORY.

31

00:01:20,370 --> 00:01:22,610

ALSO ARRIVING ON DRAGON ARE SEVERAL NEW

32

00:01:22,610 --> 00:01:25,850

MISSE SAMPLE CARRIERS OR MSC'S.

33

00:01:25,850 --> 00:01:27,970

DREW MORGAN TOOK TIME THIS WEEK TO INSTALL

34

00:01:27,970 --> 00:01:30,540

THE NEW MSC'S ON TO THE TRANSFER TRAY

35

00:01:30,540 --> 00:01:33,320

THAT IS USED TO TRANSPORT THE SAMPLE CARRIERS

36

00:01:33,320 --> 00:01:36,260

THROUGH THE JEM AIRLOCK OUTSIDE INTO SPACE.

37

00:01:36,260 --> 00:01:39,119

FROM THERE THE MSC'S ARE ATTACHED ROBOTICALLY

38

00:01:39,119 --> 00:01:41,030
TO THE MISSE PLATFORM.

39

00:01:41,030 --> 00:01:43,290
MISSE IS AN EXTERNAL PLATFORM THAT PROVIDES

40

00:01:43,290 --> 00:01:46,049
THE ABILITY TO TEST MATERIALS, COATINGS,

41

00:01:46,049 --> 00:01:48,799
AND TECHNOLOGIES OR OTHER LARGER EXPERIMENTS

42

00:01:48,799 --> 00:01:50,970
IN THE HARSH ENVIRONMENT OF SPACE,

43

00:01:50,970 --> 00:01:52,780
WHICH IS VIRTUALLY IMPOSSIBLE TO DO

44

00:01:52,780 --> 00:01:54,720
COLLECTIVELY ON EARTH.

45

00:01:54,720 --> 00:01:55,780
TESTING IN LOW-EARTH ORBIT

46

00:01:55,780 --> 00:01:58,330
ALLOWS RESEARCHERS TO SEE HOW TECHNOLOGIES

47

00:01:58,330 --> 00:02:00,979
REACT TO EXPOSURE TO THE SPACE ENVIRONMENT,

48

00:02:00,979 --> 00:02:04,000
INCLUDING ULTRAVIOLET AND IONIZING RADIATION,

49

00:02:04,000 --> 00:02:07,670
CHARGED PARTICLES, AND MICRO-METEORIDS.