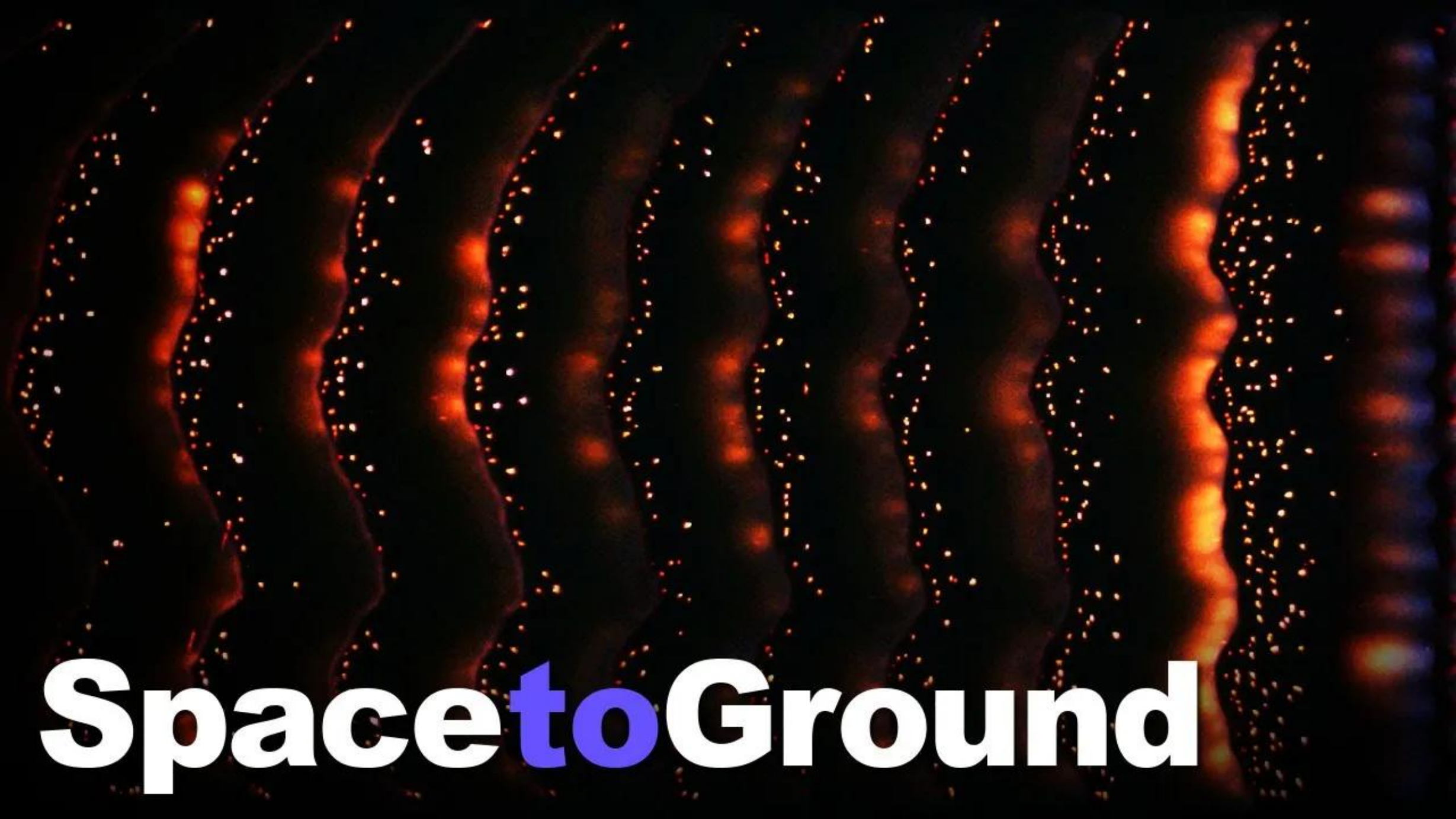
SpacetoGround

1
00:00:03,409 --> 00:00:06,299
WELCOME TO SPACE TO GROUND, I'M KATHRYN
CLAYTON.

2
00:00:06,299 --> 00:00:10,330
THIS WEEK A CARGO VEHICLE DEPARTS AND BEGINS
ITS SECOND MISSION,

3
00:00:10,330 --> 00:00:12,760
WHILE ANOTHER CARGO VEHICLE PREPARES FOR LAUNCH.

4
00:00:13,760 --> 00:00:16,760
THE NORTHROP GRUMMAN CYGNUS CRS-13 DEPARTED

5
00:00:16,770 --> 00:00:18,910
THE INTERNATIONAL SPACE STATION ON MONDAY,

6
00:00:18,910 --> 00:00:21,960
SUCCESSFULLY COMPLETING ITS THREE- MONTH CARGO MISSION.

7
00:00:21,960 --> 00:00:25,320
THE CRS-13, NAMED THE "SS ROBERT H. LAWRENCE"

8
00:00:25,320 --> 00:00:27,019
IN HONOR OF THE FIRST AFRICAN AMERICAN

9
00:00:27,019 --> 00:00:28,930
TO BE SELECTED AS AN ASTRONAUT,

10
00:00:28,930 --> 00:00:31,560
DELIVERED OVER 7,500 POUNDS OF SCIENCE EXPERIMENTS

11
00:00:31,560 --> 00:00:33,420
AND SUPPLIES TO STATION.

12
00:00:33,420 --> 00:00:35,050
WITH ITS DEPARTURE ON MONDAY,

13
00:00:35,050 --> 00:00:36,840
IT NOT ONLY CARRIED AWAY THOUSANDS OF POUNDS

14
00:00:36,840 --> 00:00:39,739
OF TRASH BUT ALSO BEGAN A SECONDARY MISSION

15
00:00:39,739 --> 00:00:42,780
HOSTING THE SPACECRAFT FIRE SAFETY EXPERIMENT–IV

16
00:00:42,780 --> 00:00:44,520
OR SAFFIRE-IV.

17
00:00:44,520 --> 00:00:46,829
THE SAFFIRE-IV EXPERIMENT WILL INVESTIGATE

18
00:00:46,829 --> 00:00:50,250
LARGE-SCALE FLAME GROWTH AND MATERIAL COMBUSTIBILITY LIMITS

19
00:00:50,250 --> 00:00:52,559
IN THE SAFE MICROGRAVITY ENVIRONMENT PROVIDED

20
00:00:52,560 --> 00:00:54,960
BY THE RECENTLY DEPARTED CYGNUS VEHICLE.

21
00:00:54,960 --> 00:00:57,820
IT IS CRITICAL FOR FUTURE HUMAN SPACECRAFTS
TO UNDERSTAND

22
00:00:57,820 --> 00:01:00,789
HOW FIRE BEHAVED IN MICROGRAVITY AND HOW DIFFERENT MATERIALS

23
00:01:00,789 --> 00:01:03,059
PROPOGATE FLAMES IN SPACE.

24
00:01:03,059 --> 00:01:05,030
THE INVESTIGATION WILL ALSO HELP INFORM

25

00:01:05,030 --> 00:01:07,630
OPERATIONAL PROTOCOLS FOR FIRE EMERGENCIES,

26
00:01:07,630 --> 00:01:09,720
ESPECIALLY IN SITUATIONS WHERE THE ASTRONAUTS

27
00:01:09,720 --> 00:01:13,380
DO NOT HAVE THE ABILITY TO EXIT THE SPACECRAFT.

28
00:01:13,380 --> 00:01:16,640
THE ALWAYS BUSY INTERNATIONAL SPACE STATION
IS PREPARING

29
00:01:16,640 --> 00:01:21,460
FOR JAXA'S H-II TRANSFER VEHICLE-9 LAUNCH
ON MAY 20TH.

30
00:01:21,460 --> 00:01:26,740
THIS WILL BE THE 9TH DELIVERY FOR HTV, ALSO
KNOWN AS THE KOUNOTORI.

31
00:01:26,820 --> 00:01:30,720
THE VEHICLE WILL CARRY OVER 6 TONS OF CARGO
TO THE ISS.

32
00:01:30,780 --> 00:01:33,260
INVESTIGATIONS AND PROVISIONS FOR THE CREW
WILL TRAVEL

33
00:01:33,270 --> 00:01:37,830
IN THE HTV-9'S PRESSURIZED LOGISTICS CARRIER

34
00:01:37,830 --> 00:01:39,720
AND ISS LITHIUM-ION BATTERY REPLACEMENT UNITS
WILL TRAVEL

35
00:01:39,720 --> 00:01:42,240
IN THE UNPRESSURIZED LOGISTICS CARRIER.

36

00:01:42,320 --> 00:01:45,880
HTV-9 WILL LAUNCH FROM JAXA'S TANEGASHIMA
SPACE CENTER.

37
00:01:45,880 --> 00:01:51,060
THE LAUNCH WILL BE COVERED ON NASA TV BEGINNING AT 1 PM EASTERN ON MAY 20TH.

38
00:01:51,740 --> 00:01:54,030
THE ENTIRE NASA TEAM IS EXCITED ABOUT

39
00:01:54,030 --> 00:01:58,110
THE UPCOMING SPACEX DEMO 2 FLIGHT TEST ON
MAY 27TH.

40
00:01:58,110 --> 00:02:01,200
NASA ASTRONAUTS BOB BEHNKEN AND DOUG HURLEY WILL LAUNCH

41
00:02:01,200 --> 00:02:03,709
FROM THE KENNEDY SPACE CENTER TO TEST THE
VEHICLES

42
00:02:03,709 --> 00:02:07,560
CREW TRANSPORTATION SYSTEM AND OPERATIONAL
CAPABILITIES IN ORBIT.

43
00:02:07,560 --> 00:02:10,220
NASA-TV WILL AIR THE CREW ARRIVAL NEWS CONFERENCE

44
00:02:10,220 --> 00:02:13,560
FROM KENNEDY ON WEDNESDAY, MAY 20TH AT NOON
EASTERN

45
00:02:13,560 --> 00:02:17,560
AND THE DM-2 FLIGHT READINESS REVIEW BRIEFING
AT KSC

46
00:02:17,560 --> 00:02:21,090
ON THURSDAY, MAY 21ST AT 6:00 PM EASTERN.

47

00:02:21,090 --> 00:02:24,560
STAY TUNED TO BE A PART OF THE EXCITEMENT.