



SPACE TO GROUND

1
00:00:00,606 --> 00:00:02,500
"HOUSTON, STATION
ON SPACE TO GROUND."

2
00:00:03,586 --> 00:00:06,500
ALMOST TIME FOR DRAGON
TO FLY HOME.

3
00:00:07,176 --> 00:00:09,406
WELCOME TO SPACE TO
GROUND, I'M DAN HUOT.

4
00:00:09,786 --> 00:00:12,356
DRAGON IS GETTING READY
TO LEAVE, SO THE CREW

5
00:00:12,356 --> 00:00:15,026
AND SOME ROBOTS HAVE
BEEN BUSY LOADING IT UP.

6
00:00:15,476 --> 00:00:19,336
THE CREW WORKED NON-STOP TO
WRAP UP FINAL EXPERIMENT WORK

7
00:00:19,596 --> 00:00:22,086
AND PACK DRAGON FULL
OF EXPERIMENT SAMPLES

8
00:00:22,086 --> 00:00:24,066
AND OTHER ITEMS FOR
RETURN TO EARTH.

9
00:00:24,096 --> 00:00:29,126
MORE THAN 5,400 POUNDS OF STUFF
WAS SECURED INSIDE THE CARGO

10
00:00:29,126 --> 00:00:31,716
CRAFT WITH THE MAJORITY
BOUND FOR LABORATORIES

11

00:00:31,716 --> 00:00:34,126

AROUND THE GLOBE FOR
SCIENTIFIC ANALYSIS.

12

00:00:34,626 --> 00:00:38,476

GROUND CONTROLLERS ALSO FINISHED
SOME MARATHON ROBOTIC OPERATIONS

13

00:00:38,666 --> 00:00:41,746

AND MOVED THREE EXTERNAL
PAYLOADS INTO DRAGON'S TRUNK

14

00:00:41,816 --> 00:00:45,366

FOR RETURN, INCLUDING A LASER
COMMUNICATION EXPERIMENT,

15

00:00:45,546 --> 00:00:48,416

A PAYLOAD TESTING A
RADIATION-HARDENED COMPUTER

16

00:00:48,686 --> 00:00:51,086

AND A TESTBED FOR
NEW SATELLITE REPAIR

17

00:00:51,086 --> 00:00:52,686

AND REFUELING TECHNOLOGIES.

18

00:00:53,326 --> 00:00:58,096

DRAGON IS SET TO SPLASH DOWN IN
THE PACIFIC ON SUNDAY, MARCH 19.

19

00:00:58,786 --> 00:01:01,576

ONE EXPERIMENT THAT FINISHED
UP THIS WEEK FOR A RIDE HOME

20

00:01:01,576 --> 00:01:03,586

ON DRAGON WAS APEX-04.

21

00:01:03,646 --> 00:01:07,126

NASA'S PEGGY WHITSON
COMPLETED THE FINAL STAGES

22

00:01:07,206 --> 00:01:10,006
OF THE ADVANCED PLANT
EXPERIMENT-4 PAYLOAD,

23

00:01:10,256 --> 00:01:10,866
WHICH IS LOOKING

24

00:01:10,866 --> 00:01:14,766
AT HOW SPACEFLIGHT CAN AFFECT AN
ORGANISM ON THE MOLECULAR LEVEL

25

00:01:14,926 --> 00:01:16,946
WITHOUT ALTERING ITS
OUTWARD APPEARANCE.

26

00:01:17,596 --> 00:01:19,926
SCIENTISTS HAVE ACTUALLY
SEEN THAT A LOT

27

00:01:19,926 --> 00:01:22,146
OF PLANT GENES ACT
DIFFERENT IN SPACE

28

00:01:22,296 --> 00:01:23,496
THAN THEY DO ON THE GROUND.

29

00:01:24,116 --> 00:01:26,286
SINCE THOSE GENES
CARRY THE INFORMATION

30

00:01:26,286 --> 00:01:29,166
THAT DETERMINE HOW A
PLANT GROWS, KNOWING MORE

31

00:01:29,166 --> 00:01:32,086
ABOUT THEM CAN BENEFIT
FUTURE PLANS TO GROW PLANTS

32
00:01:32,086 --> 00:01:34,296
IN SPACE FOR FOOD AND OXYGEN.

33
00:01:35,166 --> 00:01:37,626
OUR TWITTER QUESTION THIS
WEEK COMES FROM THE STUDENTS

34
00:01:37,626 --> 00:01:39,376
AT BARRETT ELEMENTARY WHO WANTED

35
00:01:39,436 --> 00:01:41,576
TO KNOW WHAT OUR
FAVORITE EXPERIMENT IS.

36
00:01:42,226 --> 00:01:45,216
HONESTLY, THERE'S SO MANY
IT'S HARD TO PICK JUST ONE.

37
00:01:46,016 --> 00:01:49,706
AT ANY GIVEN TIME, HERE
ARE DOZENS OR EVEN HUNDREDS

38
00:01:49,706 --> 00:01:52,666
OF EXPERIMENTS FROM A RANGE
OF FIELDS ALL HAPPENING

39
00:01:52,666 --> 00:01:54,466
AT THE SAME TIME ON THE STATION.

40
00:01:54,616 --> 00:01:57,426
DURING THE TYPICAL SIX-MONTH
STAY FOR A CREW MEMBER,

41
00:01:57,426 --> 00:01:59,966
MORE THAN 250 INVESTIGATIONS

42
00:02:00,046 --> 00:02:02,896
FROM AROUND THE GLOBE ARE

CONDUCTED, STUDYING EVERYTHING

43

00:02:02,996 --> 00:02:06,146

FROM HUMAN HEALTH TO
BIOLOGY TO PHYSICAL SCIENCES

44

00:02:06,146 --> 00:02:08,036

TO THE VERY EARTH ITSELF.

45

00:02:08,616 --> 00:02:12,296

ONE OF MY PERSONAL FAVORITES IS
THE ALPHA MAGNETIC SPECTROMETER,

46

00:02:12,606 --> 00:02:15,206

THE HUGE PARTICLE
PHYSICS DETECTOR SEARCHING

47

00:02:15,206 --> 00:02:18,066

FOR DARK MATTER,
ANTIMATTER AND THE ORIGINS

48

00:02:18,066 --> 00:02:20,346

OF THE ENTIRE UNIVERSE!

49

00:02:21,126 --> 00:02:23,666

KEEP SENDING YOUR
QUESTIONS USING THE HASHTAG