



Space**to**Ground

1
00:00:01,936 --> 00:00:03,886
"HOUSTON, STATION
ON SPACE TO GROUND."

2
00:00:04,466 --> 00:00:06,646
WELCOME TO SPACE TO
GROUND, I'M ISIDRO REYNA.

3
00:00:07,016 --> 00:00:09,056
THIS WEEK, A CARGO
SPACECRAFT LAUNCHED

4
00:00:09,056 --> 00:00:10,566
TO THE INTERNATIONAL
SPACE STATION.

5
00:00:12,996 --> 00:00:15,826
NORTHROP GRUMMAN'S 11TH
CONTRACTED CARGO RESUPPLY

6
00:00:15,826 --> 00:00:19,066
MISSION WITH NASA LAUNCHED
TO THE STATION ON APRIL 17TH

7
00:00:19,066 --> 00:00:20,966
FROM THE WOLLOPS FLIGHT
FACILITY IN VIRGINIA.

8
00:00:21,786 --> 00:00:24,996
WITH ITS ARRIVAL TWO DAYS LATER,
CYGNUS SPACECRAFT DELIVERED

9
00:00:24,996 --> 00:00:28,696
ABOUT 7,600 POUNDS OF SCIENCE
AND RESEARCH, CREW SUPPLIES

10
00:00:28,796 --> 00:00:32,586
AND VEHICLE HARDWARE TO THE
ORBITAL LABORATORY AND ITS CREW.

11
00:00:32,586 --> 00:00:34,536
PAYLOADS INCLUDE A
THERMAL AMINE SCRUBBER

12
00:00:34,536 --> 00:00:35,826
THAT WILL TEST A NEW METHOD

13
00:00:35,826 --> 00:00:39,476
TO REMOVE CARBON DIOXIDE ONBOARD
THE STATION, A VITAL TECHNOLOGY

14
00:00:39,516 --> 00:00:42,896
FOR FUTURE DEEP SPACE MISSIONS
LIKE OUR RETURN TO THE MOON.

15
00:00:42,896 --> 00:00:46,316
NEW EXPERIMENTS ARRIVING TO THE
STATION ON CYGNUS WILL CHALLENGE

16
00:00:46,316 --> 00:00:48,626
AND INSPIRE FUTURE
SCIENTISTS AND EXPLORERS.

17
00:00:49,996 --> 00:00:52,766
ONE HIGHLIGHT IS THE
VASCULAR AGING INVESTIGATION,

18
00:00:52,996 --> 00:00:55,296
WHICH WILL TEST THE RELATIONSHIP
AMONG A CREW MEMBER'S

19
00:00:55,326 --> 00:00:58,196
METABOLISM, AGING
ARTERIES AND AGING BONES.

20
00:00:58,966 --> 00:01:01,446
ASTRONAUTS SHOW ACCELERATED
ARTERIAL STIFFENING,

21

00:01:01,896 --> 00:01:04,966
THICKER ARTERY WALLS AND SIGNS
ASSOCIATED WITH THE DEVELOPMENT

22
00:01:04,966 --> 00:01:08,036
OF INSULIN RESISTANCE AFTER
SPENDING SIX MONTHS IN SPACE.

23
00:01:08,776 --> 00:01:10,706
THIS DRAMATIC CHANGE
IN CAROTID ARTERY

24
00:01:10,786 --> 00:01:13,396
AGING WAS UNRECOGNIZED
UNTIL RECENTLY.

25
00:01:13,776 --> 00:01:16,096
THE RESULTS OF THIS STUDY
COULD HAVE GREAT IMPORTANCE

26
00:01:16,096 --> 00:01:18,066
FOR ASSESSING A NEWLY
IDENTIFIED RISK

27
00:01:18,066 --> 00:01:20,076
FOR ASTRONAUT CARDIOVASCULAR
HEALTH

28
00:01:20,256 --> 00:01:21,726
AND TEACH US HOW TO
KEEP THEM HEALTHY.

29
00:01:22,196 --> 00:01:25,476
NASA AND ITS SPACE STATION
PARTNERS HAVE SET NEW FLIGHT

30
00:01:25,476 --> 00:01:27,166
SCHEDULES AND CREW ASSIGNMENTS.

31
00:01:28,626 --> 00:01:30,786

THE NEW CREW ASSIGNMENTS
WILL INCLUDE THE FIRST FLIGHT

32

00:01:30,786 --> 00:01:34,296
OF NASA ASTRONAUT JESSICA MEIR
AND A RECORD-SETTING FLIGHT

33

00:01:34,366 --> 00:01:36,066
FOR NASA ASTRONAUT
CHRISTINA KOCH.

34

00:01:36,686 --> 00:01:40,266
KOCHE, WHO ARRIVED AT THE STATION
MARCH 14, IS SCHEDULED TO REMAIN

35

00:01:40,266 --> 00:01:42,286
IN ORBIT UNTIL FEBRUARY OF 2020.

36

00:01:42,756 --> 00:01:45,526
SHE WILL SET A RECORD FOR THE
LONGEST SINGLE SPACEFLIGHT

37

00:01:45,526 --> 00:01:48,956
BY A WOMAN, ECLIPSING THE
RECORD OF 288 DAYS SET

38

00:01:48,996 --> 00:01:50,956
BY PEGGY WHITSON IN 2017.

39

00:01:52,026 --> 00:01:54,606
"It's my honor to
follow Peggy's footsteps.

40

00:01:55,076 --> 00:01:57,596
Peggy has been a
mentor and a heroine

41

00:01:57,596 --> 00:01:59,656
of mine for many, many years.

42

00:02:00,266 --> 00:02:02,646

I don't necessarily
count days or numbers,

43

00:02:02,646 --> 00:02:05,606

it's definitely a lot,
very early in the process

44

00:02:05,606 --> 00:02:06,946

to start talking about records,

45

00:02:06,946 --> 00:02:09,836

but I just really take
it one day at a time."

46

00:02:10,746 --> 00:02:13,816

MEIR IS SCHEDULED TO LAUNCH TO
THE STATION IN THE FALL OF 2020.

47

00:02:14,296 --> 00:02:16,886

ALSO, NASA ASTRONAUT
ANDREW MORGAN,

48

00:02:17,156 --> 00:02:20,076

EUROPEAN SPACE AGENCY
ASTRONAUT LUCA PARMITANO,

49

00:02:20,226 --> 00:02:23,146

AND ROSCOSMOS COSMONAUT
ALEXANDER SKVORTSOV ARE

50

00:02:23,146 --> 00:02:25,056

SCHEDULED TO LAUNCH TO
THE STATION THIS SUMMER.

51

00:02:25,616 --> 00:02:27,946

MORGAN ALSO WILL COMPLETE
AN EXTENDED MISSION

52

00:02:27,946 --> 00:02:31,396
IN SPACE.THE EXTENDED MISSIONS
WILL HELP SCIENTISTS GATHER

53
00:02:31,396 --> 00:02:32,876
ADDITIONAL DATA ABOUT
THE EFFECTS

54
00:02:32,876 --> 00:02:35,536
OF LONG-DURATION HUMAN
SPACEFLIGHT BEYOND THOSE

55
00:02:35,536 --> 00:02:37,556
OF THE NORMAL SIX-MONTH
STATION EXPEDITION.

56
00:02:38,716 --> 00:02:41,106
KEEP SENDING IN YOUR QUESTIONS
USING THE HASHTAG SPACE