



Space to Ground

1
00:00:03,030 --> 00:00:05,125
"HOUSTON, STATION ON SPACE TO GROUND."

2
00:00:05,125 --> 00:00:08,109
WELCOME TO SPACE TO GROUND, I'M SANDRA JONES.

3
00:00:08,109 --> 00:00:11,759
THIS WEEK, A CARGO RESUPPLY VEHICLE ARRIVED
TO SPACE STATION

4
00:00:11,759 --> 00:00:14,038
AND ASTRONAUTS PREPARE TO VENTURE OUTSIDE

5
00:00:14,038 --> 00:00:17,295
THE HATCH INTO THE VACUUM OF SPACE FOR A SPACEWALK.

6
00:00:17,943 --> 00:00:19,822
ON MONDAY, NORTHRUP GRUMMAN'S

7
00:00:19,822 --> 00:00:22,450
CRS-15 CARGO RESUPPLY VEHICLE,

8
00:00:22,450 --> 00:00:24,820
NAMED THE S.S. KATHERINE JOHNSON

9
00:00:24,820 --> 00:00:27,840
IN HONOR OF THE LEGENDARY NASA MATHEMATICIAN,

10
00:00:27,840 --> 00:00:29,590
ARRIVED TO THE SPACE STATION CARRYING OVER

11
00:00:29,590 --> 00:00:31,600
4 TONS OF SCIENCE INVESTIGATIONS,

12
00:00:31,600 --> 00:00:33,950
CARGO, AND CREW SUPPLIES.

13

00:00:33,950 --> 00:00:36,980
CRS-15 LAUNCHED FROM THE WALLOPS FLIGHT FACILITY

14
00:00:36,980 --> 00:00:39,890
IN WALLOPS VIRGINIA ON SATURDAY, FEBRUARY 20th,

15
00:00:39,890 --> 00:00:42,649
AND WAS CAPTURED WITH THE STATIONS ROBOTIC
ARM

16
00:00:42,649 --> 00:00:45,390
BY JAXA ASTRONAUT SOICHI NOGUCHI,

17
00:00:45,390 --> 00:00:47,039
AND THEN INSTALLED TO THE STATION'S

18
00:00:47,039 --> 00:00:49,162
EARTH FACING SIDE OF THE UNITY MODULE

19
00:00:49,162 --> 00:00:51,502
WHERE IT WILL REMAIN UNTIL LATE MAY.

20
00:00:52,277 --> 00:00:54,760
SCIENCE INVESTIGATIONS ONBOARD THIS CYGNUS

21
00:00:54,760 --> 00:00:57,850
INCLUDES MICRO-16, WHICH IS AN INVESTIGATION

22
00:00:57,850 --> 00:01:00,579
STUDYING MUSCLE STRENGTH CHANGES IN WORMS

23
00:01:00,579 --> 00:01:02,870
TO HELP US BETTER UNDERSTAND MUSCLE WEAKENING

24
00:01:02,870 --> 00:01:05,840
THAT ASTRONAUTS CAN EXPERIENCE IN MICROGRAVITY.

25
00:01:05,840 --> 00:01:08,130

LAMBDADVISION'S SECOND EXPERIMENT HEADED

26

00:01:08,130 --> 00:01:10,420

TO THE SPACE STATION TO STUDY THE ADVANTAGES

27

00:01:10,420 --> 00:01:13,851

OF MANUFACTURING ARTIFICIAL RETINAS IN SPACE.

28

00:01:13,851 --> 00:01:17,340

And A-HOSS, A RADIATION DETECTION SYSTEM DEVELOPED

29

00:01:17,340 --> 00:01:20,670

FOR THE ORION SPACECRAFT AND CERTIFIED FOR
USE ON

30

00:01:20,670 --> 00:01:24,140

NASA'S ARTEMIS II MISSION, THE FIRST ARTEMIS
MISSION

31

00:01:24,140 --> 00:01:25,670

ON WHICH A CREW OF ASTRONAUTS

32

00:01:25,670 --> 00:01:28,221

WILL ORBIT THE MOON IN THE SPACECRAFT.

33

00:01:28,812 --> 00:01:30,930

ON SUNDAY FEBRUARY 28th,

34

00:01:30,930 --> 00:01:33,060

TWO SPACEALKERS WILL BEGIN WORK FOR

35

00:01:33,060 --> 00:01:35,720

UPCOMING SOLAR ARRAY UPGRADES.

36

00:01:35,720 --> 00:01:38,469

NASA ASTRONAUTS KATE RUBINS AND VICTOR GLOVER

37

00:01:38,469 --> 00:01:40,649

WILL WORK TOGETHER TO BEGIN ASSEMBLING

38

00:01:40,649 --> 00:01:42,850

AND INSTALLING MODIFICATION KITS

39

00:01:42,850 --> 00:01:44,860

REQUIRED FOR SOLAR ARRAY UPGRADES

40

00:01:44,860 --> 00:01:46,920

DURING SUNDAY'S SPACEWALK.

41

00:01:46,920 --> 00:01:48,340

THOUGH THEY ARE FUNCTIONING WELL,

42

00:01:48,340 --> 00:01:50,109

THE CURRENT SET OF SOLAR ARRAYS

43

00:01:50,109 --> 00:01:52,439

ARE SHOWING SIGNS OF DEGRADATION,

44

00:01:52,439 --> 00:01:54,159

WHICH WAS EXPECTED.

45

00:01:54,159 --> 00:01:55,960

SIX NEW SOLAR ARRAYS ARE SCHEDULE

46

00:01:55,960 --> 00:01:57,251

FOR DELIVERY TO THE STATION

47

00:01:57,251 --> 00:01:59,270

DURING THREE RESUPPLY MISSIONS

48

00:01:59,270 --> 00:02:00,999

STARTING LATER THIS YEAR.

49

00:02:00,999 --> 00:02:02,460

EACH NEW ARRAY WILL PRODUCES

50
00:02:02,460 --> 00:02:05,649
MORE THAN 20 KILOWATTS OF ELECTRICITY.

51
00:02:05,649 --> 00:02:07,570
YOU CAN TUNE IN TO WATCH THE SPACEWALK,

52
00:02:07,570 --> 00:02:10,200
THE THIRD FOR BOTH RUBINS AND GLOVER,

53
00:02:10,200 --> 00:02:12,870
ON NASA TELEVISION AND THE AGENCY'S WEBSITE.

54
00:02:12,870 --> 00:02:15,850
LIVE COVERAGE WILL BEGIN AT 4:30 AM EASTERN.

55
00:02:16,600 --> 00:02:19,440
THAT'S SPACE TO GROUND FOR THIS WEEK, THANKS
FOR WATCHING.

56
00:02:19,440 --> 00:02:22,159
AS ALWAYS, KEEP SENDING IN YOUR QUESTIONS