



SPACE TO GROUND

1
00:00:00,840 --> 00:00:02,300
"HOUSTON, STATION ON SPACE TO GROUND."

2
00:00:03,180 --> 00:00:05,240
WELCOME TO SPACE TO
GROUND, I'M ISIDRO REYNA.

3
00:00:05,506 --> 00:00:09,026
THIS WEEK ON STATION, EXPEDITION
53 CREW MEMBERS PREPARED

4
00:00:09,026 --> 00:00:11,856
FOR THREE SPACEWALKS SET
TO TAKE PLACE IN OCTOBER.

5
00:00:12,640 --> 00:00:15,520
COMMANDER RANDY BRESNIK WILL
LEAD ALL THREE SPACEWALKS,

6
00:00:15,520 --> 00:00:17,900
JOINED ON OCTOBER 5th AND 10th

7
00:00:17,900 --> 00:00:19,480
BY FLIGHT
ENGINEER MARK VANDE HEI.

8
00:00:19,920 --> 00:00:22,620
JOE ACABA WILL JOIN
BRESNIK ON OCTOBER 18th.

9
00:00:23,400 --> 00:00:24,720
DURING THE
FIRST SPACEWALK,

10
00:00:24,720 --> 00:00:27,636
THE CREW WILL REPLACE ONE OF
TWO LATCHING END EFFECTORS

11
00:00:27,640 --> 00:00:30,320

ON THE STATION'S
ROBOTIC ARM - CANADARM2.

12

00:00:30,820 --> 00:00:32,860
THE SECOND AND THIRD
SPACEWALKS WILL BE DEVOTED

13

00:00:32,866 --> 00:00:35,216
TO LUBRICATING THE NEWLY
INSTALLED END EFFECTOR -

14

00:00:35,516 --> 00:00:37,756
THE SNARE AT THE END
OF THE ROBOTIC ARM USED

15

00:00:37,756 --> 00:00:41,156
TO GRAPPLE VEHICLES AND
PAYLOADS - AND REPLACING CAMERAS

16

00:00:41,160 --> 00:00:42,740
ON THE LEFT SIDE OF
THE STATION'S TRUSS

17

00:00:42,740 --> 00:00:43,756
AND THE RIGHT SIDE

18

00:00:43,756 --> 00:00:45,896
OF THE STATION'S U.S.
DESTINY LABORATORY.

19

00:00:46,440 --> 00:00:49,040
VISIT NASA TELEVISION
AND NASA.GOV

20

00:00:49,040 --> 00:00:51,080
AT 1 P.M. CENTRAL ON OCTOBER 2nd

21

00:00:51,100 --> 00:00:53,760
TO VIEW A BRIEFING OF
THE WORK TO BE PERFORMED.

22

00:00:54,420 --> 00:00:56,600

THIS WEEK, VICE PRESIDENT MIKE
PENCE VISITED

23

00:00:56,600 --> 00:00:59,340

THE MARSHALL SPACE FLIGHT CENTER IN HUNTSVILLE ALABAMA

24

00:00:59,340 --> 00:01:02,960

AND CALLED ASTRONAUTS
BRESNIK, VANDE HEI AND ACABA ABORD THE STATION.

25

00:01:03,380 --> 00:01:07,060

"HOW DO YOU BELIEVE YOUR WORK ON
THE INTERNATIONAL SPACE STATION,

26

00:01:07,060 --> 00:01:11,100

DAY IN AND DAY OUT, ADVANCES
AMERICAN LEADERSHIP IN SPACE?"

27

00:01:11,820 --> 00:01:14,880

"WE JUST SENT HOME A
SPACE X DRAGON CARGO VEHICLE

28

00:01:14,880 --> 00:01:16,696

THAT CARRIED SCIENCE
THAT WE'VE BEEN WORKING

29

00:01:16,696 --> 00:01:17,646

ON FOR A MONTH UP HERE.

30

00:01:18,216 --> 00:01:20,646

ONE OF THEM WAS GROWING
LUNG TISSUE.

31

00:01:21,086 --> 00:01:24,296

LUNG TISSUE THAT'S GOING TO
ALLOW THEM TO IDEALLY FIGURE

32

00:01:24,296 --> 00:01:25,716
OUT CURES FOR LUNG CANCER.

33
00:01:26,146 --> 00:01:27,646
GROUNDBREAKING RESEARCH
LIKE THAT UP HERE

34
00:01:27,646 --> 00:01:30,706
ON THE INTERNATIONAL SPACE
STATION IS WHAT KEEPS AMERICAN

35
00:01:30,706 --> 00:01:32,100
LEADERSHIP IN SPACE."

36
00:01:32,620 --> 00:01:34,800
PENCE ALSO MET WITH GROUND
CONTROLLERS AT MARSALL

37
00:01:34,800 --> 00:01:36,760
THAT PROVIDE AROUND-THE-CLOCK
SUPPORT

38
00:01:36,760 --> 00:01:38,560
OF THE CREW'S SCIENTIFIC
ACTIVITIES

39
00:01:38,560 --> 00:01:40,960
ON THE ORBITING LABORATORY,
PAVING THE WAY

40
00:01:40,960 --> 00:01:43,260
FOR FUTURE DEEP SPACE
EXPLORATION MISSIONS.

41
00:01:44,060 --> 00:01:46,400
AND RANDY BRESNIK
GOT TO TAKE SOME TIME

42
00:01:46,400 --> 00:01:48,360
OUT OF HIS BUSY SCHEDULE

TO SPEAK WITH STUDENTS

43

00:01:48,360 --> 00:01:51,360

AT THE NATIONAL AIR AND
SPACE MUSEUM IN WASHINGTON DC.,

44

00:01:51,960 --> 00:01:53,840

THIS WEEK'S QUESTION
CAME FROM GISELLE.

45

00:01:54,080 --> 00:01:56,420

SHE WANTS TO KNOW WHAT
WEATHER LOOKS LIKE FROM SPACE.

46

00:01:57,220 --> 00:01:58,920

"WEATHER LOOKS REALLY NEAT.

47

00:01:58,920 --> 00:02:01,680

WE GET TO SEE THE CLOUDS, AND SO
THE NEAT THING ABOUT CLOUDS IS,

48

00:02:01,700 --> 00:02:03,400

THERE ARE NO TWO THE SAME.

49

00:02:03,440 --> 00:02:04,860

THEY'RE DIFFERENT EVERYWHERE.

50

00:02:04,860 --> 00:02:07,420

AND YOU CAN SEE WHERE, YOU
CAN HAVE A LINE OF CLOUDS,

51

00:02:07,420 --> 00:02:08,360

AND THERE'S SOME PUFFIES

52

00:02:08,360 --> 00:02:10,260

AND THERE'S SOME STREAKS
AND THINGS LIKE THAT.

53

00:02:10,260 --> 00:02:13,360

WE HAVE UNFORTUNATELY SEEN WAY
TOO MANY HURRICANES FROM UP HERE

54

00:02:13,360 --> 00:02:14,380
IN THE PAST COUPLE OF WEEKS.

55

00:02:14,820 --> 00:02:18,080
BUT TO SEE THE HURRICANES SWIRLS
AND THE WAY THE CLOUDS JET

56

00:02:18,080 --> 00:02:20,220
OUT FROM THE EDGES AND
THEN LOOK DOWN LITERALLY

57

00:02:20,220 --> 00:02:21,540
INTO THE EYE OF A HURRICANE.

58

00:02:21,980 --> 00:02:24,180
WE'VE SEEN STRAIGHT DOWN
INTO THE BLUE OF THE OCEAN,

59

00:02:24,260 --> 00:02:27,660
INSIDE THE MIDDLE
OF IRMA AND JOSE.

60

00:02:27,920 --> 00:02:29,640
THE SAD PART FOR US IS
JUST KNOWING WHAT'S GOING

61

00:02:29,640 --> 00:02:32,960
ON THE GROUND UNDERNEATH
THOSE HURRICANES."

62

00:02:33,820 --> 00:02:35,440
KEEP SENDING US YOUR
QUESTIONS USING THE HASHTAG