



SPACE TO GROUND

1
00:00:00,820 --> 00:00:02,760
"HOUSTON, STATION ON SPACE TO GROUND."

2
00:00:03,780 --> 00:00:06,660
SPACE STATION IS FEELING THE SUMMER TRAVEL TRAFFIC TOO!

3
00:00:07,540 --> 00:00:09,820
WELCOME TO SPACE TO
GROUND, I'M HAYLEY FICK.

4
00:00:10,226 --> 00:00:12,286
THIS WEEK SAW THE
PACKING AND UNPACKING

5
00:00:12,286 --> 00:00:13,820
OF VISITING CARGO VEHICLES.

6
00:00:14,580 --> 00:00:17,820
LIKE BACK TO BACK VACATIONS
OR A BIG SUMMERTIME MOVE,

7
00:00:17,820 --> 00:00:20,536
THE SPACE STATION CREW IS
SPENDING THEIR DAYS UNPACKING

8
00:00:20,536 --> 00:00:21,726
AND RE-PACKING TOO.

9
00:00:22,000 --> 00:00:25,180
MORE THAN THREE TONS OF SUPPLIES
ARRIVED ABOARD THE PROGRESS

10
00:00:25,180 --> 00:00:29,220
RUSSIAN CARGO SHIP ON JUNE 16,
BUT SOMEONE HAS TO UNPACK ALL

11
00:00:29,226 --> 00:00:30,136
OF THOSE AND STORE THEM

12

00:00:30,136 --> 00:00:32,146

IN THE CORRECT AREAS
OF THE SPACE STATION.

13

00:00:32,666 --> 00:00:36,186

LIKEWISE, THE DRAGON CARGO CRAFT
THAT ARRIVED ON JUNE 5 IS DUE

14

00:00:36,186 --> 00:00:37,876

TO DISEMBARK ON JULY 2.

15

00:00:38,336 --> 00:00:41,226

AFTER OFFLOADING SCIENCE
EXPERIMENTS, SPACEWALKING GEAR,

16

00:00:41,226 --> 00:00:43,636

AND STATION HARDWARE,
IT IS NOW BEING LOADED

17

00:00:43,640 --> 00:00:46,480

WITH USED STATION GEAR
AND RESEARCH SAMPLES

18

00:00:46,480 --> 00:00:48,860

FOR ANALYSIS UPON
ITS RETURN TO EARTH.

19

00:00:50,060 --> 00:00:53,320

ONE OF THE DELIVERIES FROM THE
SPACEX DRAGON CARGO VEHICLE WAS

20

00:00:53,320 --> 00:00:55,420

THE ROLL-OUT SOLAR
ARRAY, OR ROSA.

21

00:00:56,240 --> 00:00:58,396

AFTER BEING EXTRACTED
FROM DRAGON'S TRUNK

22

00:00:58,400 --> 00:01:02,520
BY THE CANADARM2 ROBOTIC
ARM, ROSA WAS PUT TO THE TEST

23

00:01:02,520 --> 00:01:05,140
IN THE SUMMER SUN OUTSIDE
OF SPACE STATION ON JUNE 18.

24

00:01:05,736 --> 00:01:08,146
THE FLEXIBLE SOLAR ARRAY THAT
ROLLS OUT LIKE A TAPE MEASURE

25

00:01:08,146 --> 00:01:11,096
OR A PARTY HORN, COULD OFFER
SUBSTANTIAL COST SAVINGS

26

00:01:11,096 --> 00:01:15,056
AND INCREASED POWER COMPARED
TO CURRENT BULKY, HEAVY PANELS.

27

00:01:15,446 --> 00:01:17,816
THE REAL PARTY FAVOR IS ALL
THE DATA BEING COLLECTED

28

00:01:17,816 --> 00:01:21,186
FOR INVESTIGATORS BACK ON EARTH
TO EVALUATE HOW WELL IT STANDS

29

00:01:21,186 --> 00:01:24,126
UP TO THE EXTREME TEMPERATURE
AND MICROGRAVITY CONDITIONS.

30

00:01:25,306 --> 00:01:27,006
THIS WEEK'S QUESTION
COMES FROM AVA

31

00:01:27,006 --> 00:01:28,896
IN MS. ROBILOTTA'S
FIFTH GRADE CLASS.

32

00:01:29,340 --> 00:01:32,520
SHE WANTS TO KNOW WHAT TESTS
ARE GOING ON AT THE ISS.

33
00:01:33,160 --> 00:01:35,336
AMONGST ALL THE MATERIALS,
LIFE SCIENCES,

34
00:01:35,340 --> 00:01:37,600
AND TECHNOLOGY RESEARCH
BEING CONDUCTED ON STATION,

35
00:01:37,600 --> 00:01:40,360
THERE'S ONE BIG TEST THAT
MIGHT GET YOU AND ME CLOSER

36
00:01:40,360 --> 00:01:41,680
TO A VACATION IN SPACE.

37
00:01:42,520 --> 00:01:45,640
THE BIGELOW EXPANDABLE
ACTIVITY MODULE, OR BEAM,

38
00:01:45,640 --> 00:01:47,780
IS AN EXPERIMENTAL HABITAT
THAT'S BEEN ATTACHED

39
00:01:47,780 --> 00:01:50,120
TO SPACE STATION SINCE MAY 2016.

40
00:01:50,580 --> 00:01:52,900
ASTRONAUT JACK FISCHER
ENTERED BEAM THIS WEEK

41
00:01:52,900 --> 00:01:54,860
TO PERFORM REGULAR AIR
AND SURFACE CHECKUPS

42
00:01:55,240 --> 00:01:57,020
AND INSTALL A NEW

RADIATION SHIELD

43

00:01:57,026 --> 00:01:58,556

THAT WAS 3D-PRINTED ON ORBIT.

44

00:01:59,136 --> 00:02:01,356

EXPANDABLE HABITATS

THAT WEIGH LESS AND TAKE

45

00:02:01,356 --> 00:02:03,656

UP LESS VOLUME COULD

REDUCE THE COST AND NUMBER

46

00:02:03,656 --> 00:02:05,906

OF LAUNCHES NEEDED FOR

DEEP SPACE MISSIONS

47

00:02:05,906 --> 00:02:08,000

LIKE LANDING HUMANS ON MARS.

48

00:02:08,820 --> 00:02:11,020

KEEP SENDING YOUR

QUESTIONS USING THE HASHTAG