



SPACE TO GROUND

1
00:00:00,066 --> 00:00:02,886
"HOUSTON, STATION
ON SPACE TO GROUND."

2
00:00:03,136 --> 00:00:05,406
WELCOME TO SPACE TO
GROUND, I'M DAN HUOT.

3
00:00:05,596 --> 00:00:09,516
A RUSSIAN CARGO CRAFT WAS LOST
DURING ITS FLIGHT INTO SPACE.

4
00:00:10,506 --> 00:00:14,346
THE RUSSIAN PROGRESS 65 LIFTED
OFF FROM THE BAIKONUR COSMODROME

5
00:00:14,346 --> 00:00:17,066
IN KAZAKHSTAN ON
TIME ON DECEMBER 1ST.

6
00:00:17,726 --> 00:00:20,606
THE FLIGHT WAS NORMAL
UNTIL JUST OVER 6 MINUTES

7
00:00:20,966 --> 00:00:24,276
WHEN RUSSIAN GROUND CONTROLLERS
STOPPED RECEIVING TELEMETRY DATA

8
00:00:24,356 --> 00:00:25,186
FROM THE VEHICLE.

9
00:00:25,926 --> 00:00:27,336
PRELIMINARY INFORMATION

10
00:00:27,336 --> 00:00:30,096
FROM ROSCOSMOS INDICATES
THE VEHICLE WAS LOST

11
00:00:30,096 --> 00:00:33,436

OVER AN UNPOPULATED AND
MOUNTAINOUS AREA WITH MOST

12

00:00:33,436 --> 00:00:35,476

OF THE CRAFT BURNING
UP IN THE ATMOSPHERE.

13

00:00:36,036 --> 00:00:39,416

THE LOSS OF THE CARGO SHIP WILL
NOT AFFECT THE STATION'S NORMAL

14

00:00:39,416 --> 00:00:42,726

OPERATIONS AND SUPPLIES
ABOARD REMAIN AT GOOD LEVELS.

15

00:00:43,606 --> 00:00:46,776

THIS WAS A PACKED WEEK
WITH CLOSE TO 70 HOURS

16

00:00:46,776 --> 00:00:48,966

OF SCIENCE WORK SCHEDULED
FOR THE CREW.

17

00:00:48,966 --> 00:00:51,496

THEY WORKED ON SEVERAL
EXPERIMENTS,

18

00:00:51,496 --> 00:00:53,706

INCLUDING THE EUROPEAN
MARES DEVICE,

19

00:00:53,916 --> 00:00:57,206

SET UP BY THOMAS PESQUET, WHICH
IS RESEARCHING THE EFFECTS

20

00:00:57,246 --> 00:00:59,456

OF MICROGRAVITY ON
THE MUSCULAR SYSTEM.

21

00:01:00,086 --> 00:01:02,136

COMMANDER SHANE KIMBROUGH
SET UP HARDWARE

22

00:01:02,196 --> 00:01:05,436
FOR THE MARANGONI EXPERIMENT,
WHICH INVESTIGATES THE PHYSICS

23

00:01:05,436 --> 00:01:09,436
OF SURFACE TENSION WHERE LIQUID
AND GAS MEET, AN IMPORTANT FACET

24

00:01:09,436 --> 00:01:11,016
OF HEAT EXCHANGERS IN SPACE

25

00:01:11,206 --> 00:01:13,226
AND CLINICAL DIAGNOSTICS
HERE ON EARTH.

26

00:01:13,716 --> 00:01:16,276
PEGGY WHITSON WAS EVEN
ABLE TO DO A DEMONSTRATION

27

00:01:16,306 --> 00:01:19,296
TO HELP NASA FLIGHT SURGEONS
FIGURE OUT THE BEST WAY

28

00:01:19,446 --> 00:01:22,236
TO REMOVE AIR BUBBLES
FROM AN IV FLUID BAG,

29

00:01:22,456 --> 00:01:25,096
IN CASE THEY ARE EVER NEEDED
FOR A SICK CREWMEMBER.

30

00:01:26,016 --> 00:01:28,796
THIS WEEK TWITTER USER
ALPHA ADHITO WANTS

31

00:01:28,796 --> 00:01:31,966
TO KNOW WHAT THE STATION CREW

DOES IF THERE IS A FIRE ONBOARD.

32

00:01:32,316 --> 00:01:34,486
THAT'S A GREAT QUESTION
AND AN IMPORTANT PART

33

00:01:34,486 --> 00:01:36,896
OF ANY ASTRONAUT'S
TRAINING BEFORE FLIGHT.

34

00:01:37,686 --> 00:01:41,236
EVERY STATION CREW PRACTICES
FIGHTING FIRES BEFORE FLIGHT

35

00:01:41,236 --> 00:01:44,396
AT THE SPACE VEHICLE MOCKUP
FACILITY HERE IN HOUSTON.

36

00:01:44,876 --> 00:01:46,626
THE STATION HAS SMOKE DETECTORS

37

00:01:46,626 --> 00:01:48,436
THAT CAN IMMEDIATELY
WARN THE CREW.

38

00:01:48,906 --> 00:01:51,556
TO SUPPRESS ANY FIRE,
THERE ARE EXTINGUISHERS

39

00:01:51,556 --> 00:01:55,116
THAT USE EITHER CARBON
DIOXIDE, A FINE WATER-MIST

40

00:01:55,316 --> 00:01:57,526
OR A WATER-BASED
EXTINGUISHING FOAM.

41

00:01:57,836 --> 00:02:01,866
THEY ALSO HAVE OXYGEN MASKS
AVAILABLE AND HANDHELD SENSORS

42

00:02:02,136 --> 00:02:05,636

TO TEST THE ATMOSPHERE
FOR COMBUSTION PRODUCTS.

43

00:02:05,786 --> 00:02:07,796

KEEP SENDING IN YOUR
QUESTIONS USING THE