



Spaceto**Ground**

1

00:00:03,043 --> 00:00:05,020

"HOUSTON, STATION ON SPACE TO GROUND."

2

00:00:05,020 --> 00:00:07,880

WELCOME TO SPACE TO GROUND, I AM KAYLA LAFRANCE.

3

00:00:07,880 --> 00:00:11,330

FROM NEW ARRIVALS, AND MICROGRAVITY ARCHAEOLOGY,

4

00:00:11,330 --> 00:00:17,910

TO A SPACE WALKING DUO, THE CREW ONBOARD THE
ISS HAS HAD A BUSY WEEK.

5

00:00:17,910 --> 00:00:21,810

WITH THE ARRIVAL OF 3 COSMONAUTS TO THE ORBITING
LABORATORY LAST FRIDAY,

6

00:00:21,810 --> 00:00:26,870

THERE ARE NOW 10 PEOPLE LIVING AND WORKING
ON THE INTERNATIONAL SPACE STATION.

7

00:00:26,870 --> 00:00:32,640

THE NEWEST CREWMEMBERS LAUNCHED FROM THE BAIKONUR
COSMODROME IN KAZAKHSTAN ATOP OF A SOYUZ BOOSTER,

8

00:00:32,640 --> 00:00:36,590

THEN RENDEZVOUSED AND DOCKED WITH THE SPACE
STATION 3 HOURS LATER.

9

00:00:36,590 --> 00:00:40,970

THE TRIO WILL SPEND THE NEXT 6 AND A HALF
MONTHS PERFORMING SCIENCE AND MAINTENANCE

10

00:00:40,970 --> 00:00:42,370

ON THE ORBITING OUTPOST

11

00:00:42,370 --> 00:00:47,110

AS PART OF THE EXPEDITION 66 AND 67 CREWS.

12

00:00:47,110 --> 00:00:52,670

WHILE THE 63 SOYUZ CREW SETTLED IN THEIR NEW HOME AND ADAPTED TO LIFE IN MICROGRAVITY,

13

00:00:52,670 --> 00:00:57,175

THE REST OF THE EXPEDITION 66 TEAM SPENT THE WEEK PREPPING

14

00:00:57,175 --> 00:01:00,670

FOR THE SECOND SPACEWALK IN TWO WEEKS.

15

00:01:00,670 --> 00:01:04,144

SOME OF THE WORK PERFORMED BY NASA ASTRONAUT RAJA CHARI

16

00:01:04,144 --> 00:01:07,799

AND EUROPEAN SPACE AGENCY ASTRONAUT MATTHIAS MAURER

17

00:01:07,799 --> 00:01:12,076

INCLUDED THE INSTALLATION OF JUMPER HOSES FOR THE THERMAL SYSTEM.

18

00:01:12,076 --> 00:01:17,470

UPGRADES TO SOME OF THE ELECTRONICS AND POWER COMPONENTS ON THE STATION WAS ALSO ON THE

19

00:01:17,470 --> 00:01:19,730

BOOKS FOR THE SPACEWALKING DUO.

20

00:01:19,730 --> 00:01:25,677

WEDNESDAY'S EVA WAS THE SECOND FOR CHARI, AND THE FIRST FOR MAURER.

21

00:01:25,677 --> 00:01:30,340

WHEN YOU HEAR THE TERM 'ARCHAEOLOGY', YOU PROBABLY THINK OF INDIANA JONES,

22

00:01:30,340 --> 00:01:33,525

EXCAVATION SITES, AND ANCIENT ARTIFACTS.

23

00:01:33,525 --> 00:01:38,780

BUT DID YOU KNOW THAT WE HAVE BEGUN DOING
ARCHEOLOGY RESEARCH IN ORBIT?

24

00:01:38,780 --> 00:01:44,890

THE ISS ARCHAEOLOGICAL PROJECT, ALSO KNOWN
AS SQUARE, IS WRAPPING UP ITS FIRST TEST STUDY

25

00:01:44,890 --> 00:01:46,891

ABOARD THE SPACE STATION.

26

00:01:46,891 --> 00:01:52,020

ARCHAEOLOGISTS ON EARTH USE A ONE METER BY
ONE METER "SHOVEL PIT" METHOD TO EXCAVATE

27

00:01:52,020 --> 00:01:54,560

LAYER BY LAYER AND REVEAL OBJECTS.

28

00:01:54,560 --> 00:02:00,930

IN SPACE, ASTRONAUTS HAVE INSTEAD TAPED OFF
ONE METER BY ONE METER SQUARES IN VARIOUS

29

00:02:00,930 --> 00:02:03,750

HIGH-TRAFFIC PLACES THROUGHOUT THEIR HOME
IN ORBIT.

30

00:02:03,750 --> 00:02:07,869

THEY'VE TAKEN PICTURES OF THOSE SQUARES
ON A DAILY BASIS TO REVEAL "LAYERS" OF

31

00:02:07,869 --> 00:02:09,525

ACTIVITY WITHIN.

32

00:02:09,525 --> 00:02:14,450

THE AIM IS TO SHOW HOW THESE AREAS CHANGE
OVER TIME AND TO CAPTURE HOW THE STATION WAS

33

00:02:14,450 --> 00:02:16,140

USED DAY-TO-DAY.

34

00:02:16,140 --> 00:02:22,040

RESULTS FROM THIS STUDY COULD NOT ONLY PRESERVE
THE DAILY USE OF THE ISS FOR FUTURE GENERATIONS,

35

00:02:22,040 --> 00:02:27,660

BUT COULD ALSO BE USED TO IMPROVE THE DESIGN
OF FUTURE SPACE CRAFT AND HABITATS.

36

00:02:27,660 --> 00:02:29,680

AND THAT'S SPACE TO GROUND FOR THIS WEEK.

37

00:02:29,680 --> 00:02:31,000

THANKS FOR WATCHING.

38

00:02:31,000 --> 00:02:36,240

BUT BEFORE WE GO, WE INVITE YOU TO LISTEN
TO "HOUSTON, WE HAVE A PODCAST".

39

00:02:36,240 --> 00:02:40,650

THE FIRST PRIVATE ASTRONAUT MISSION TO THE
SPACE STATION IS RIGHT AROUND THE CORNER,

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00:02:40,650 --> 00:02:46,170

AND THE UPCOMING AXIOM-1 MISSION WILL BE THE
TOPIC FOR THIS WEEK'S EPISODE.

41

00:02:46,170 --> 00:02:52,184

YOU CAN FIND THIS CONVERSATION BY GOING TO
NASA.GOV/PODCASTS.

42

00:02:52,184 --> 00:02:57,660

"HOUSTON, WE HAVE A PODCASTS", ALONG WITH
THE FULL LIBRARY OF NASA PODCASTS ARE ALSO