



Spaceto**Ground**



1
00:00:02,696 --> 00:00:04,656
"HOUSTON, STATION
ON SPACE TO GROUND."

2
00:00:05,296 --> 00:00:07,476
WELCOME TO SPACE TO
GROUND, I'M HAYLEY FICK.

3
00:00:07,556 --> 00:00:10,626
THIS WEEK WILL OFFICIALLY
BRING ONE EXPEDITION TO A CLOSE

4
00:00:10,676 --> 00:00:12,286
AND WELCOME THE BEGINNING
OF ANOTHER.

5
00:00:13,076 --> 00:00:15,366
EXPEDITION 55 WILL
COME TO A CLOSE

6
00:00:15,366 --> 00:00:18,666
WHEN RUSSIAN COSMONAUT ANTON
SHKAPLEROV HANDS CONTROL

7
00:00:18,666 --> 00:00:21,006
OF THE SPACE STATION
OVER TO NASA ASTRONAUT

8
00:00:21,126 --> 00:00:23,706
AND EXPEDITION 56
COMMANDER DREW FEUSTEL.

9
00:00:24,246 --> 00:00:27,596
YOU CAN WATCH THE CHANGE OF
COMMAND CEREMONY LIVE ON NASA TV

10
00:00:27,596 --> 00:00:29,836
AT 2:25 P.M. EASTERN TIME.

11

00:00:30,696 --> 00:00:33,806
SHKAPLEROV WILL RETURN HOME
WITH NASA'S SCOTT TINGLE

12
00:00:33,806 --> 00:00:36,876
AND JAPANESE ASTRONAUT
NORISHIGE KANAI ON JUNE 3.

13
00:00:37,446 --> 00:00:40,026
A NEW THREE-PERSON
COMPLEMENT, SERGEY PROKOPYEV,

14
00:00:40,116 --> 00:00:43,076
SERENA AUNON-CHANCELLOR AND
ALEXANDER GERST WILL LAUNCH

15
00:00:43,076 --> 00:00:44,906
FROM BAIKONUR ON
WEDNESDAY, JUNE 6TH

16
00:00:45,126 --> 00:00:49,166
AND JOIN FEUSTEL'S CREW
ABOARD THE STATION ON JUNE 8.

17
00:00:49,476 --> 00:00:51,986
WITH THE CYGNUS CARGO CRAFT
DOCKED TO THE SPACE STATION,

18
00:00:51,986 --> 00:00:54,236
THERE IS PLENTY OF RESEARCH
TO KEEP THE CREW BUSY.

19
00:00:55,076 --> 00:00:57,876
THE BARRIOS PROTEIN CRYSTAL
GROWTH EXPERIMENT TESTS THE

20
00:00:57,926 --> 00:00:59,846
FEASIBILITY OF OFF-THE-SHELF
EQUIPMENT

21

00:00:59,846 --> 00:01:02,456
FOR GROWING DIFFERENT PROTEIN
SOLUTIONS AT THE SAME TIME,

22
00:01:02,846 --> 00:01:04,706
WHICH MAY ALLOW FOR
THE SPEEDY DEVELOPMENT

23
00:01:04,706 --> 00:01:06,336
OF BETTER PHARMACEUTICALS
ON EARTH.

24
00:01:07,066 --> 00:01:10,536
SOLIDIFICATION USING A BAFFLE
IN SEALED AMPOULES, OR SUBSA,

25
00:01:10,536 --> 00:01:12,876
COULD CONTRIBUTE TO IMPROVED
TECHNOLOGY ON THE GROUND

26
00:01:12,876 --> 00:01:14,316
THROUGH ITS EXPERIMENTAL METHODS

27
00:01:14,406 --> 00:01:16,446
FOR PRODUCING SEMICONDUCTOR
CRYSTALS.

28
00:01:16,446 --> 00:01:19,956
THE CREW ALSO SPENT SOME TIME
INSTALLING THE COLD ATOM LAB

29
00:01:19,956 --> 00:01:21,286
THAT WE LEARNED ABOUT LAST WEEK.

30
00:01:21,616 --> 00:01:24,496
IT STUDIES ATOMS IN
EXTREMELY COLD SITUATIONS

31
00:01:24,496 --> 00:01:27,766
WHICH CAN HELP SCIENTISTS ANSWER

QUESTIONS IN FUNDAMENTAL PHYSICS

- 32
00:01:27,886 --> 00:01:30,306
AND CONTRIBUTE TO THE
DEVELOPMENT OF ATOMIC CLOCKS
- 33
00:01:30,486 --> 00:01:31,686
AND SPACECRAFT SENSORS.
- 34
00:01:32,496 --> 00:01:35,676
THIS WEEK DREW FEUSTEL AND RICKY
ARNOLD ANSWER ALL YOUR QUESTIONS
- 35
00:01:35,676 --> 00:01:38,956
ABOUT LIFE IN SPACE IN A SPECIAL
TUMBLR VIDEO ANSWER TIME.
- 36
00:01:39,686 --> 00:01:41,926
HEAR STRAIGHT FROM CURRENT
SPACE STATION RESIDENTS
- 37
00:01:41,926 --> 00:01:43,796
ABOUT WHAT EXPERIENCING
WEIGHTLESSNESS
- 38
00:01:43,856 --> 00:01:46,766
FOR THE FIRST TIME FEELS LIKE,
THE EXPERIMENTS THEY PERFORM,
- 39
00:01:46,816 --> 00:01:48,806
AND THE BEAUTIFUL SIGHTS
THEY SEE FROM UP THERE.
- 40
00:01:49,286 --> 00:01:53,216
CHECK IT OUT AT
[NASA.TUMBLR.COM/ANSWERTIME](https://www.nasa.gov/tumblr.com/answertime).
- 41
00:01:53,776 --> 00:01:56,736
KEEP SENDING IN YOUR QUESTIONS
USING THE HASHTAG SPACETOGROUND,

42

00:01:56,940 --> 00:01:59,940

WE'LL SEE YOU NEXT WEEK.