



Spaceto**Ground**

1
00:00:02,700 --> 00:00:04,660
"HOUSTON, STATION
ON SPACE TO GROUND."

2
00:00:05,860 --> 00:00:09,500
"AND LIFTOFF OF SOYUZ
MS-09 CARRYING SERENA

3
00:00:09,506 --> 00:00:12,736
AUÑON-CHANCELLOR, SERGEY
PROKOPYEV AND ALEXANDER GERST

4
00:00:12,736 --> 00:00:14,626
TO THE INTERNATIONAL
SPACE STATION."

5
00:00:15,216 --> 00:00:17,376
WELCOME TO SPACE TO
GROUND, I'M ISIDRO REYNA.

6
00:00:17,826 --> 00:00:20,626
THIS WEEK, ONE CREW LAUNCHED TO
THE INTERNATIONAL SPACE STATION,

7
00:00:20,826 --> 00:00:22,336
WHILE ANOTHER RETURNED TO EARTH.

8
00:00:23,126 --> 00:00:27,026
EXPEDITION 55 ASTRONAUT SCOTT
TINGLE OF NASA, NORISHIGE KANAI

9
00:00:27,026 --> 00:00:29,646
OF THE JAPAN AEROSPACE
EXPLORATION AGENCY

10
00:00:29,906 --> 00:00:31,966
AND ANTON SHKAPLEROV
OF ROSCOSMOS,

11

00:00:32,196 --> 00:00:34,216
LANDED ON JUNE 3RD
IN KAZAKHSTAN.

12
00:00:34,406 --> 00:00:35,626
THE CREW COMPLETED HUNDREDS

13
00:00:35,626 --> 00:00:39,096
OF EXPERIMENTS DURING THEIR
168-DAY STAY ABOARD THE

14
00:00:39,096 --> 00:00:40,576
ORBITING LABORATORY.

15
00:00:40,576 --> 00:00:44,246
MEANWHILE, A NEW THREE-PERSON
CREW INCLUDING SERGEY PROKOPYEV

16
00:00:44,246 --> 00:00:47,736
OF ROSCOSMOS, NASA ASTRONAUT
SERENA AUÑON-CHANCELLOR

17
00:00:47,836 --> 00:00:50,696
AND ALEXANDER GERST OF
THE EUROPEAN SPACE AGENCY,

18
00:00:50,886 --> 00:00:52,576
LAUNCHED FROM BAIKONUR
ON JUNE 6TH.

19
00:00:53,006 --> 00:00:55,016
THE TRIO JOINED COMMANDER
DREW FEUSTEL,

20
00:00:55,246 --> 00:00:56,906
NASA ASTRONAUT RICKY ARNOLD

21
00:00:57,136 --> 00:01:00,086
AND RUSSIAN OLEG ARTEMYEV
ABOARD THE STATION ON JUNE 8TH

22
00:01:00,326 --> 00:01:02,006
TO FORM EXPEDITION 56.

23
00:01:02,486 --> 00:01:05,126
ALL SIX WILL CONTINUE WORK
ON EXPERIMENTS IN BIOLOGY,

24
00:01:05,506 --> 00:01:08,336
BIOTECHNOLOGY, PHYSICAL
SCIENCE AND EARTH SCIENCE.

25
00:01:09,176 --> 00:01:10,666
TWO NASA ASTRONAUTS WILL EMBARK

26
00:01:10,706 --> 00:01:13,356
ON A SIX-AND-A-HALF-HOUR
SPACEWALK ON JUNE 14TH.

27
00:01:14,416 --> 00:01:17,146
DREW FEUSTEL AND RICKY
ARNOLD WILL INSTALL BRACKETS

28
00:01:17,186 --> 00:01:19,816
AND CAMERAS NEAR AN
INTERNATIONAL DOCKING ADAPTER

29
00:01:19,996 --> 00:01:22,456
MATED TO THE FRONT END OF
THE STATION'S HARMONY MODULE.

30
00:01:22,456 --> 00:01:25,776
THE ADDITIONS WILL PROVIDE
ENHANCED VIEWS DURING THE FINAL

31
00:01:25,776 --> 00:01:28,836
PHASE OF APPROACH AND DOCKING
OF THE SPACEX CREW DRAGON,

32

00:01:29,026 --> 00:01:31,376
AND BOEING STARLINER
COMMERCIAL CREW SPACECRAFT,

33
00:01:31,376 --> 00:01:32,966
THAT WILL SOON BEGIN LAUNCHING

34
00:01:32,966 --> 00:01:35,706
FROM AMERICAN SOIL.DURING
THEIR SPACEWALK,

35
00:01:35,706 --> 00:01:38,326
THE ASTRONAUTS WILL ALSO
SWAP OUT A CAMERA ASSEMBLY

36
00:01:38,396 --> 00:01:40,406
ON THE STARBOARD
TRUSS OF THE STATION,

37
00:01:40,406 --> 00:01:42,006
AND CLOSE AN APERTURE DOOR

38
00:01:42,046 --> 00:01:44,756
ON AN EXTERNAL ENVIRONMENTAL
IMAGING EXPERIMENT OUTSIDE THE

39
00:01:44,756 --> 00:01:46,056
JAPANESE KIBO MODULE.

40
00:01:46,536 --> 00:01:49,036
THE SPACEWALK WILL BE
THE 211TH IN SUPPORT

41
00:01:49,036 --> 00:01:50,966
OF SPACE STATION
ASSEMBLY AND MAINTENANCE

42
00:01:50,966 --> 00:01:52,616
AND THE SIXTH SPACEWALK
THIS YEAR.

43

00:01:53,586 --> 00:01:55,366

THIS WEEK'S QUESTION
COMES FROM CHRISTIAN

44

00:01:55,566 --> 00:01:58,216

OF R.J.O. INTERMEDIATE SCHOOL
IN KINGS PARK, NEW YORK.

45

00:01:58,596 --> 00:02:01,346

HE WANTS TO KNOW HOW LONG AN
ASTRONAUT CAN STAY OUTSIDE

46

00:02:01,346 --> 00:02:02,806

OF THE SPACE STATION
IN A SPACESUIT.

47

00:02:03,816 --> 00:02:07,166

A SPACESUIT OR EXTRAVEHICULAR
MOBILITY UNIT IS MUCH MORE

48

00:02:07,166 --> 00:02:09,396

THAN A SET OF CLOTHES
ASTRONAUTS WEAR ON SPACEWALKS.

49

00:02:09,806 --> 00:02:12,896

A FULLY EQUIPPED SPACESUIT IS
REALLY A ONE-PERSON SPACECRAFT.

50

00:02:13,506 --> 00:02:16,156

EACH SPACESUIT HAS TWO
OXYGEN TANKS (SIMILAR

51

00:02:16,156 --> 00:02:17,666

TO SCUBA DIVING TANKS) THAT WORK

52

00:02:17,716 --> 00:02:20,866

WITH A CARBON DIOXIDE REMOVAL
SYSTEM TO ALLOW AN ASTRONAUT

53

00:02:20,926 --> 00:02:24,436

TO STAY IN THEIR SUIT FOR A 6
TO 8 AND A HALF HOUR SPACEWALK.

54

00:02:25,036 --> 00:02:28,386

NASA ASTRONAUTS JAMES VOSS AND
SUSAN HELMS HOLD THE RECORD

55

00:02:28,516 --> 00:02:30,526

FOR THE LONGEST AMERICAN
SPACEWALK,

56

00:02:30,596 --> 00:02:34,976

WHICH LASTED EIGHT HOURS AND
56 MINUTES ON MARCH 11, 2001.

57

00:02:36,036 --> 00:02:38,876

KEEP SENDING IN YOUR QUESTIONS
USING THE HASHTAG SPACETOGROUND,

58

00:02:39,100 --> 00:02:39,900

WE'LL SEE YOU NEXT WEEK.