
SpacetoGround

1
00:00:03,110 --> 00:00:05,336
"HOUSTON, STATION ON SPACE TO GROUND."

2
00:00:05,336 --> 00:00:08,239
WELCOME TO SPACE TO GROUND, I'M SANDRA JONES.

3
00:00:08,239 --> 00:00:10,800
THIS WEEK WE CELEBRATE THE 20TH ANNIVERSARY

4
00:00:10,800 --> 00:00:12,658
OF THE EXPEDITION 1 LAUNCH,

5
00:00:12,658 --> 00:00:14,530
ALL THE WHILE THE SCIENCE CONTINUES

6
00:00:14,530 --> 00:00:16,760
ON THE SPACE STATION, AS WE LEARN ABOUT

7
00:00:16,760 --> 00:00:18,652
HOW THE MICROGRAVITY ENVIRONMENT OF

8
00:00:18,652 --> 00:00:21,056
THE SPACE STATION AFFECTS THE HUMAN BODY.

9
00:00:26,238 --> 00:00:29,450
ON OCTOBER 31, 2000, NASA ASTRONAUT

10
00:00:29,450 --> 00:00:31,809
AND COMMANDER OF THE EXPEDITION 1 CREW,

11
00:00:31,809 --> 00:00:34,059
WILLIAM SHEPHERD, AND HIS RUSSIAN CREWMATES

12
00:00:34,059 --> 00:00:36,680
SERGEI KRIKALEV AND YURI GIDZENKO LAUNCHED

13
00:00:36,680 --> 00:00:38,950

TO THE INTERNATIONAL SPACE STATION OFFICIALLY

14
00:00:38,950 --> 00:00:40,640
BEGINNING A CONTINUOUS PRESENCE OF

15
00:00:40,640 --> 00:00:42,470
HUMANS LIVING OFF THE PLANET.

16
00:00:42,470 --> 00:00:44,990
SHEPHERD REFLECTED ABOUT HIS HISTORIC MISSION

17
00:00:44,990 --> 00:00:47,388
WITH NASA'S GARY JORDAN ON THE LASTEST EDITION
OF

18
00:00:47,388 --> 00:00:49,381
"HOUSTON, WE HAVE A PODCAST."

19
00:00:50,116 --> 00:00:52,620
"If we're going to go past the moon,

20
00:00:52,620 --> 00:00:55,130
out to Mars, and maybe other places,

21
00:00:55,130 --> 00:00:57,780
asteroids and things like that, the character
of

22
00:00:57,780 --> 00:00:59,170
how we will do this,

23
00:00:59,170 --> 00:01:01,499
it's going to have several aspects...

24
00:01:01,499 --> 00:01:03,390
And they're going to have to combine

25
00:01:03,390 --> 00:01:05,759

the resources of more than just one country

26
00:01:05,759 --> 00:01:08,640
because the expanse of a Mars mission is not

27
00:01:08,640 --> 00:01:10,970
something any single country is going to

28
00:01:10,970 --> 00:01:13,300
be able to afford, nor would they have all

29
00:01:13,300 --> 00:01:15,220
the technology and capability that

30
00:01:15,220 --> 00:01:16,220
will be required.

31
00:01:16,220 --> 00:01:18,090
And so, if you look

32
00:01:18,090 --> 00:01:19,790
at International Space Station,

33
00:01:19,790 --> 00:01:22,077
it's really a blueprint for how to do this."

34
00:01:22,934 --> 00:01:24,860
YOU CAN HEAR THE ENTIRE INTERVIEW WITH

35
00:01:24,860 --> 00:01:27,650
COMMANDER SHEPHERD RIGHT NOW, OR ANYTIME.

36
00:01:27,650 --> 00:01:29,900
“HOUSTON, WE HAVE A PODCAST” IS AVAILABLE
ON

37
00:01:29,900 --> 00:01:31,830
APPLE PODCASTS, GOOGLE PODCASTS,

38
00:01:31,830 --> 00:01:35,014
SOUND CLOUD, OR NASA.GOV/PODCAST.

39
00:01:35,864 --> 00:01:38,000
IN THE 20 YEARS THAT HAVE FOLLOWED,

40
00:01:38,000 --> 00:01:41,299
241 PEOPLE FROM 19 COUNTRIES

41
00:01:41,299 --> 00:01:43,850
HAVE LIVED AND WORKED ABOARD THE SPACE STATION

42
00:01:43,850 --> 00:01:46,780
COMPLETING ALMOST 3,000 SCIENCE EXPERIMENTS.

43
00:01:46,780 --> 00:01:49,622
AND THAT SCIENCE CONTINUES.

44
00:01:49,622 --> 00:01:51,900
NASA ASTRONAUT KATE RUBINS TOOK PART

45
00:01:51,900 --> 00:01:54,009
IN A STUDY TO DETERMINE TO WHAT EXTENT

46
00:01:54,009 --> 00:01:55,680
AN ASTRONAUT'S ABILITY TO VISUALLY

47
00:01:55,680 --> 00:01:58,000
INTERPRET MOTION, ORIENTATION,

48
00:01:58,000 --> 00:01:59,710
AND DISTANCE MAY BE DISRUPTED IN

49
00:01:59,710 --> 00:02:01,829
A MICROGRAVITY ENVIRONMENT, AND HOW

50

00:02:01,829 --> 00:02:03,970
IT MAY BE CHANGED UPON RETURN TO EARTH,

51
00:02:03,970 --> 00:02:05,810
AS PART OF THE EFFECT OF LONG DURATION

52
00:02:05,810 --> 00:02:09,231
HYPOGRAVITY ON THE PERCEPTION OF SELF-MOTION
STUDY.

53
00:02:09,860 --> 00:02:13,040
BACK ON EARTH, NASA'S SPACE-X CREW-1 MISSION

54
00:02:13,040 --> 00:02:15,939
HAS A NEW TARGET LAUNCH DATE.

55
00:02:15,939 --> 00:02:18,050
NASA ASTRONAUTS MICHAEL HOPKINS,

56
00:02:18,050 --> 00:02:19,970
VICTOR GLOVER, AND SHANNON WALKER,

57
00:02:19,970 --> 00:02:22,880
ALONG WITH JAPAN AEROSPACE EXPLORATION AGENCY

58
00:02:22,880 --> 00:02:25,070
MISSION SPECIALIST SOICHI NOGUCHI,

59
00:02:25,070 --> 00:02:28,466
ARE NOW SCHEDULED TO LAUNCH AT 7:49 PM EASTERN
TIME

60
00:02:28,466 --> 00:02:30,660
ON SATURDAY, NOVEMBER 14TH FROM

61
00:02:30,660 --> 00:02:33,229
LAUNCH COMPLEX 39A AT KENNEDY.

62

00:02:33,229 --> 00:02:34,980
NASA WILL PROVIDE CONTINUOUS COVERAGE

63
00:02:34,980 --> 00:02:36,180
UNTIL THEY ARE WELCOMED ABOARD

64
00:02:36,180 --> 00:02:38,220
THE INTERNATIONAL SPACE STATION AS

65
00:02:38,220 --> 00:02:41,080
EXPEDITION 64 CREWMATES, WHERE THEY WILL SPEND

66
00:02:41,080 --> 00:02:43,590
SIX MONTHS CONDUCTING RESEARCH, MAINTANENCE,

67
00:02:43,590 --> 00:02:44,890
AND SPACEWALKS.

68
00:02:44,890 --> 00:02:47,129
VISIT NASA.GOV/COMMERCIAL CREW

69
00:02:47,129 --> 00:02:49,780
FOR THE LATEST INFORMATION ON CREW-1.

70
00:02:50,720 --> 00:02:52,080
KEEP SENDING YOUR QUESTIONS