

SpaceX

Space **to** Ground

1
00:00:06,970 --> 00:00:02,790
foreign

2
00:00:09,589 --> 00:00:06,980
[Music]

3
00:00:11,030 --> 00:00:09,599
and this week we take a look ahead at

4
00:00:12,830 --> 00:00:11,040
the next mission flying to the

5
00:00:15,589 --> 00:00:12,840
International Space Station

6
00:00:17,570 --> 00:00:15,599
on Wednesday January 25th a pair of news

7
00:00:19,490 --> 00:00:17,580
conferences at NASA's Johnson Space

8
00:00:21,650 --> 00:00:19,500
Center in Houston highlighted the agency

9
00:00:23,450 --> 00:00:21,660
SpaceX crew 6 mission to the

10
00:00:25,970 --> 00:00:23,460
International Space Station in February

11
00:00:27,710 --> 00:00:25,980
the mission is NASA's six crew rotation

12
00:00:30,109 --> 00:00:27,720
flight involving a U.S commercial

13
00:00:32,030 --> 00:00:30,119

spacecraft carrying crew for a science

14

00:00:34,190 --> 00:00:32,040

Expedition aboard the microgravity

15

00:00:36,290 --> 00:00:34,200

laboratory the purpose of the space

16

00:00:38,270 --> 00:00:36,300

station it's a national lab and it's for

17

00:00:41,150 --> 00:00:38,280

scientific research so we have this

18

00:00:43,069 --> 00:00:41,160

incredible unique weightless environment

19

00:00:44,990 --> 00:00:43,079

where we can conduct amazing scientific

20

00:00:47,270 --> 00:00:45,000

research and that's why we go to the ISS

21

00:00:49,790 --> 00:00:47,280

we will be subjects to a lot of

22

00:00:51,770 --> 00:00:49,800

scientific observation that is done

23

00:00:53,830 --> 00:00:51,780

before the flight during the flight and

24

00:00:56,450 --> 00:00:53,840

bus flight to see the impact of

25

00:00:59,450 --> 00:00:56,460

weightlessness on our on our bodies and

26
00:01:02,029 --> 00:00:59,460
our body mass so it's all for the sake

27
00:01:04,189 --> 00:01:02,039
of Science and it's all for the sake of

28
00:01:05,929 --> 00:01:04,199
the push towards the boundaries of

29
00:01:08,270 --> 00:01:05,939
exploration towards space

30
00:01:10,429 --> 00:01:08,280
the crew 6 Mission will carry NASA

31
00:01:12,289 --> 00:01:10,439
astronauts Steve Bowen and Warren hoberg

32
00:01:14,990 --> 00:01:12,299
as well as United Arab Emirates

33
00:01:18,050 --> 00:01:15,000
astronaut Sultan anayade and Ross Cosmos

34
00:01:19,609 --> 00:01:18,060
Cosmonaut Andre fed yayef the Falcon 9

35
00:01:21,530 --> 00:01:19,619
rocket and the dragon Endeavor

36
00:01:23,929 --> 00:01:21,540
spacecraft is scheduled to launch no

37
00:01:26,630 --> 00:01:23,939
earlier than February 26th from launch

38
00:01:28,190 --> 00:01:26,640

complex 39a at NASA's Kennedy Space

39

00:01:29,929 --> 00:01:28,200

Center in Florida

40

00:01:31,850 --> 00:01:29,939

during their mission aboard the orbiting

41

00:01:34,490 --> 00:01:31,860

laboratory the crew 6 astronauts will

42

00:01:37,130 --> 00:01:34,500

conduct Cutting Edge research

43

00:01:39,230 --> 00:01:37,140

studies of material flammability tests

44

00:01:41,090 --> 00:01:39,240

of treatments for cardiac disease and

45

00:01:42,950 --> 00:01:41,100

demonstration of a new tool that could

46

00:01:45,230 --> 00:01:42,960

monitor changes to the immune system

47

00:01:47,210 --> 00:01:45,240

during deep space exploration missions

48

00:01:49,010 --> 00:01:47,220

are just some of the more than 200

49

00:01:50,149 --> 00:01:49,020

experiments that will occur during the

50

00:01:51,410 --> 00:01:50,159

mission

51
00:01:53,330 --> 00:01:51,420
what we learned from the International

52
00:01:55,789 --> 00:01:53,340
Space Station will help us to explore

53
00:01:58,030 --> 00:01:55,799
Mars especially for our Transit habitat

54
00:02:00,410 --> 00:01:58,040
needed to get to and from the red planet

55
00:02:02,810 --> 00:02:00,420
this week on Houston we have a podcast

56
00:02:05,209 --> 00:02:02,820
Paul Kessler aerospace engineer from

57
00:02:07,069 --> 00:02:05,219
NASA's Langley Research Center discusses

58
00:02:08,870 --> 00:02:07,079
what a spacecraft that would take future

59
00:02:11,270 --> 00:02:08,880
Mars explorers to and from the red

60
00:02:12,770 --> 00:02:11,280
planet would look like as always you can

61
00:02:16,010 --> 00:02:12,780
catch the interview on Apple podcast

62
00:02:18,050 --> 00:02:16,020
Google podcasts and SoundCloud

63
00:02:20,910 --> 00:02:18,060

best space to ground for this week thank

64

00:03:12,490 --> 00:02:23,809

[Music]

65

00:03:12,500 --> 00:03:16,350

thank you

66

00:03:16,360 --> 00:03:36,170

[Music]