



NASA'S SPACEX CREW-2 ASTRONAUTS

ADVANCE RESEARCH IN SPACE



1
00:00:04,410 --> 00:00:05,400
AND LIFTOFF.

2
00:00:05,500 --> 00:00:09,250
GODSPEED ENDEAVOUR
AND CREW-2.

3
00:00:09,270 --> 00:00:11,970
THE CREW IS GO FOR
INGRESS AND YOU CAN

4
00:00:11,970 --> 00:00:16,590
SEE AKI IS THE FIRST
TO INGRESS ONTO

5
00:00:16,590 --> 00:00:18,270
THE INTERNATIONAL
SPACE STATION.

6
00:00:18,960 --> 00:00:20,040
WE'RE SO EXCITED
TO BE HERE.

7
00:00:20,040 --> 00:00:20,970
WE'RE READY TO
GET TO WORK.

8
00:00:20,970 --> 00:00:23,290
THERE'S A LOT OF
GREAT SCIENCE AND

9
00:00:23,290 --> 00:00:25,020
WE'RE JUST EXCITED TO
LEARN AND GET STARTED.

10
00:00:31,500 --> 00:00:33,240
THE EXPERIMENT THAT'S
TAKING UP MOST OF MY

11

00:00:33,240 --> 00:00:35,460
TIME RIGHT NOW IS CALLED
CELESTIAL IMMUNITY

12
00:00:35,460 --> 00:00:37,380
AND IT'S A REALLY
INTERESTING EXPERIMENT

13
00:00:37,710 --> 00:00:40,470
THAT INVOLVES LOOKING
AT IMMUNE PATHWAYS AND

14
00:00:40,470 --> 00:00:42,660
I HAVE AN EXPERT THAT'S
LOOKING OVER MY SHOULDER

15
00:00:42,660 --> 00:00:44,880
VIA CAMERA AND SHE CAN
TALK WITH ME KIND OF

16
00:00:44,880 --> 00:00:46,830
STEP-BY-STEP AS WE GO
THROUGH THE PROCESS.

17
00:00:47,040 --> 00:00:48,810
THAT LOOKS GOOD MEGAN.

18
00:00:48,860 --> 00:00:49,120
ALL RIGHT.

19
00:00:49,140 --> 00:00:50,220
THANK YOU VERY MUCH.

20
00:00:50,490 --> 00:00:52,080
I'M SURE I'LL BE TALKING
TO YOU AGAIN TOMORROW.

21
00:00:54,635 --> 00:00:55,955
RECENTLY I'VE
BEEN WORKING ON A

22

00:00:55,955 --> 00:00:58,205
REALLY INTERESTING
EDUCATIONAL EXPERIMENT

23

00:00:58,205 --> 00:00:58,945
CALLED THE BLOB.

24

00:00:58,945 --> 00:01:02,165
IT'S THAT CRAZY
MONOCELULAR BEING

25

00:01:02,165 --> 00:01:05,224
THAT HAS NO BRAIN,
BUT CAN LEARN, UH, AND

26

00:01:05,224 --> 00:01:07,535
CAN ACTUALLY SEARCH
FOOD AND SOLVE MAZES.

27

00:01:07,545 --> 00:01:09,435
IT'S PRETTY CONTAINED
ON THE SPACE STATION,

28

00:01:09,435 --> 00:01:10,015
DON'T WORRY ABOUT IT.

29

00:01:10,015 --> 00:01:13,055
IT'S VERY TINY, BUT SO
WE'RE WORKING ON ALL

30

00:01:13,055 --> 00:01:15,515
KINDS OF ENDEAVORS LIKE
THIS, AND EVERY DAY,

31

00:01:15,725 --> 00:01:18,275
YOU KNOW, BRINGS IT'S A,
IT'S A LOT OF DISCOVERIES

32

00:01:18,275 --> 00:01:18,965
ON THE SPACE STATION.

33

00:01:18,965 --> 00:01:19,635
THAT'S VERY EXCITING.

34

00:01:20,635 --> 00:01:23,215
WE'RE TRACKING A FULL
AND GOOD DEPLOY OF

35

00:01:23,215 --> 00:01:24,205
THAT SOLAR ARRAY.

36

00:01:24,295 --> 00:01:25,725
SO WELL DONE BOTH OF YOU.

37

00:01:26,335 --> 00:01:27,055
IT'S BEAUTIFUL.

38

00:01:27,735 --> 00:01:29,605
WE'RE IN A SEASON
NOW ACTUALLY OF

39

00:01:29,605 --> 00:01:30,645
DOING CARGO OPS.

40

00:01:30,675 --> 00:01:32,815
WE HAVE TWO SPACECRAFT
THAT ARE ATTACHED TO US

41

00:01:33,145 --> 00:01:35,005
THAT BROUGHT US CARGO,
AND NOW WE'RE PACKING

42

00:01:35,005 --> 00:01:36,895
THEM BACK UP TO GET THEM
READY FOR DEPARTURE.

43

00:01:37,825 --> 00:01:39,145

WELL ONBOARD THE
INTERNATIONAL SPACE

44

00:01:39,145 --> 00:01:42,355
STATION WE DO HELP OUT
SOME OF THE DEVELOPMENT

45

00:01:42,355 --> 00:01:43,465
OF A MEDICINE.

46

00:01:43,585 --> 00:01:47,395
WITHOUT GRAVITY YOU
GET LARGER CHUNKS OF

47

00:01:47,445 --> 00:01:49,085
PURE PROTEIN CRYSTALS.

48

00:01:49,405 --> 00:01:51,390
WHAT WE'RE LOOKING
FOR TODAY ARE

49

00:01:51,450 --> 00:01:52,870
NEEDLE-LIKE STRUCTURES.

50

00:01:52,890 --> 00:01:53,370
PERFECT.

51

00:01:53,429 --> 00:01:53,970
THERE THEY ARE.

52

00:01:57,120 --> 00:01:58,980
WELL, IT IS A FANTASTIC
VIEW THAT WE HAVE,

53

00:01:58,980 --> 00:02:00,399
WE SEE THE THIN LAYER
OF ATMOSPHERE, THAT'S

54

00:02:00,420 --> 00:02:02,039

PROTECTING ALL OF
YOU DOWN ON EARTH.

55

00:02:02,039 --> 00:02:04,200

SO JUST TAKING CARE OF
OUR PLANET HAS KIND OF

56

00:02:04,200 --> 00:02:06,330

BEEN A CHANGE, MAYBE
MENTALLY FROM SEEING IT

57

00:02:06,330 --> 00:02:07,280

FROM THIS PERSPECTIVE.

58

00:02:08,820 --> 00:02:10,919

WE ARE GROWING SOME
CHILI PEPPERS IN

59

00:02:10,919 --> 00:02:12,930

THE PLANT HABITAT
HERE IN THE JAPANESE

60

00:02:12,930 --> 00:02:13,950

EXPERIMENT MODULE.

61

00:02:14,430 --> 00:02:15,960

IT'S ONE OF THE MORE
COMPLICATED THINGS THAT

62

00:02:15,960 --> 00:02:17,250

HAVE BEEN GROWN IN SPACE.

63

00:02:17,250 --> 00:02:19,080

AND SO THEY DO TAKE
A LITTLE LONGER TO

64

00:02:19,080 --> 00:02:20,100

COME TO FRUITION.

65

00:02:20,280 --> 00:02:21,750
SO WE'RE REALLY HOPING
THAT WE GET TO TRY

66
00:02:21,750 --> 00:02:23,550
SOME PEPPERS BEFORE
THE END OF OUR MISSION.

67
00:02:24,660 --> 00:02:26,820
OVER THE YEARS, THE
CAPABILITIES OF THE

68
00:02:26,820 --> 00:02:29,430
LABORATORY HAVE EXPANDED
AND GROWN ALONG WITH

69
00:02:29,430 --> 00:02:31,170
THE INTEREST IN DOING
THIS KIND OF RESEARCH

70
00:02:31,170 --> 00:02:32,430
IN LOW-EARTH ORBIT,
WHICH I THINK IS

71
00:02:32,430 --> 00:02:33,200
REALLY REMARKABLE.

72
00:02:33,200 --> 00:02:35,250
SO WE ARE REALLY
KIND OF AT THE PEAK

73
00:02:35,250 --> 00:02:35,850
OF THAT, I THINK.

74
00:02:35,910 --> 00:02:37,290
AND SO WE'VE SEEN
A LITTLE BIT OF

75
00:02:37,290 --> 00:02:37,950
EVERYTHING, RIGHT?

76

00:02:37,950 --> 00:02:40,710

WE'VE DONE, UM, HUMAN
IMMUNE SYSTEM RESEARCH.

77

00:02:40,710 --> 00:02:43,620

SO LOTS OF RESEARCH INTO
MEDICATION FORMATION,

78

00:02:44,100 --> 00:02:46,200

FLUIDS RESEARCH,
COMBUSTION RESEARCH,

79

00:02:46,230 --> 00:02:47,460

EVEN ROBOTICS RESEARCH.

80

00:02:47,490 --> 00:02:49,260

THIS HUGE RANGE OF
DIFFERENT THINGS THAT

81

00:02:49,260 --> 00:02:51,090

WE'VE GOTTEN TO TOUCH
DURING OUR MISSION.

82

00:02:51,210 --> 00:02:53,160

AND THE WAY SCIENCE
WORKS, AS YOU KNOW, IS

83

00:02:53,340 --> 00:02:55,380

THIS IS THE BUILDING
BLOCKS FOR STUFF TO COME.

84

00:02:55,380 --> 00:02:57,720

AND SO THE RESULTS FROM
THESE EXPERIMENTS WILL

85

00:02:57,720 --> 00:02:59,520

COME OUT IN THE YEARS
TO COME, BUT THEY WILL

86

00:02:59,520 --> 00:03:01,500

ALSO BE THE FOUNDATION
OF EXPERIMENTS THAT ARE

87

00:03:01,500 --> 00:03:03,860

DESIGNED IN THE FOLLOWING
YEARS AND SO ALL OF THE

88

00:03:03,860 --> 00:03:05,750

RESEARCH, THAT'S GOING
TO BE STUFF THAT WE

89

00:03:05,750 --> 00:03:07,310

GET TO SAY, OH, WE HAD
A LITTLE PART OF THAT.

90

00:03:07,310 --> 00:03:08,810

WE GOT, WE GOT OUR
HANDS ON A LITTLE BIT