



1
00:00:15,070 --> 00:00:12,159
today wild leaders met to discuss the

2
00:00:16,749 --> 00:00:15,080
global food crisis they are expecting to

3
00:00:18,609 --> 00:00:16,759
form an international agreement that

4
00:00:20,499 --> 00:00:18,619
will facilitate global agricultural

5
00:00:25,260 --> 00:00:20,509
research with the hope that it will

6
00:00:30,940 --> 00:00:28,209
no no that's not the way you plant

7
00:00:33,430 --> 00:00:30,950
vegetables like I'll say you have to do

8
00:00:41,880 --> 00:00:33,440
this one and then you can do the next

9
00:00:57,630 --> 00:00:41,890
one like try a carrot they are delicious

10
00:01:08,410 --> 00:00:57,640
[Music]

11
00:01:18,050 --> 00:01:10,790
yes amen

12
00:01:30,310 --> 00:01:27,430
[Music]

13
00:02:00,109 --> 00:01:30,320

ground launch sequence has begun

14

00:02:05,850 --> 00:02:03,690

today NASA began its Orien mission on

15

00:02:08,130 --> 00:02:05,860

the ship is botanist and astronaut

16

00:02:11,460 --> 00:02:08,140

varied Emerson whom we spoke to earlier

17

00:02:13,620 --> 00:02:11,470

this week in this exclusive interview so

18

00:02:16,710 --> 00:02:13,630

Vera please tell us about your research

19

00:02:18,030 --> 00:02:16,720

mission on Mars yeah sure I'm going to

20

00:02:20,790 --> 00:02:18,040

be investigating how we can optimize

21

00:02:23,130 --> 00:02:20,800

plant growth on Mars the question I'm

22

00:02:24,660 --> 00:02:23,140

investigating is how can we grow the

23

00:02:26,330 --> 00:02:24,670

most amount of food on Mars with the

24

00:02:29,220 --> 00:02:26,340

least amount of resources

25

00:02:32,070 --> 00:02:29,230

Laika just look at our wonderful home

26

00:02:35,789 --> 00:02:32,080

from up here it seems so small and

27

00:02:37,530 --> 00:02:35,799

fragile in this black mass several major

28

00:02:39,300 --> 00:02:37,540

cities across the globe have now

29

00:02:42,120 --> 00:02:39,310

officially declared themselves to have

30

00:02:44,220 --> 00:02:42,130

no remaining water stores those cities

31

00:02:46,530 --> 00:02:44,230

trying to offer support can only do so

32

00:02:53,860 --> 00:02:46,540

in a limited capacity as their resources

33

00:02:58,870 --> 00:02:57,680

initiating landing sequence deploying

34

00:03:08,220 --> 00:02:58,880

landing legs

35

00:03:08,230 --> 00:03:13,240

[Music]

36

00:03:24,520 --> 00:03:16,580

pressurizing module air composition

37

00:03:28,960 --> 00:03:24,530

stabilizing heating module - 20 0 20

38

00:03:36,320 --> 00:03:28,970

module he set simulating Earth's gravity

39

00:03:38,979 --> 00:03:36,330

ready to rock and roll I've worked out

40

00:03:41,449 --> 00:03:38,989

the optimum temperature light exposure

41

00:03:45,670 --> 00:03:41,459

concentrations of key gases plant

42

00:03:48,880 --> 00:03:45,680

nutrition and growth cycles hmm

43

00:03:53,380 --> 00:03:48,890

let's run the simulation initializing

44

00:03:59,030 --> 00:03:53,390

optimum plant growing simulation

45

00:04:04,370 --> 00:03:59,040

simulation complete optimum growth

46

00:04:05,630 --> 00:04:04,380

achieved life support system stable we

47

00:04:08,240 --> 00:04:05,640

have successfully managed to grow

48

00:04:10,100 --> 00:04:08,250

vegetables on Mars I have completed all

49

00:04:11,720 --> 00:04:10,110

the experiments that were needed and the

50

00:04:13,550 --> 00:04:11,730

results are looking very promising I

51
00:04:14,890 --> 00:04:13,560
will be returning to earth to show my

52
00:04:18,430 --> 00:04:14,900
research with the world

53
00:04:24,010 --> 00:04:18,440
Orion mission 1 has landed I repeat

54
00:04:29,719 --> 00:04:28,250
like I'm so happy to see you I've missed

55
00:04:33,560 --> 00:04:29,729
you so much

56
00:04:35,120 --> 00:04:33,570
and so I think the most exciting thing

57
00:04:36,800 --> 00:04:35,130
about this research is that this

58
00:04:38,750 --> 00:04:36,810
technology will allow us to grow more

59
00:04:41,030 --> 00:04:38,760
food and more sustainably than ever

60
00:04:44,060 --> 00:04:41,040
before which means we can finally feed

61
00:04:47,480 --> 00:04:44,070
the world right that's it it's all on