



1
00:00:01,000 --> 00:00:02,200
(Roar of rocket engine)

2
00:00:02,200 --> 00:00:07,000
2017 was an awesome year at Ames!
(Melodic piano music)

3
00:00:07,000 --> 00:00:09,500
Small Sats: Several shoebox-sized Cubesat missions

4
00:00:09,500 --> 00:00:12,100
were launched to conduct experiments.

5
00:00:12,100 --> 00:00:15,300
They demonstrated new technologies,

6
00:00:15,300 --> 00:00:18,800
and tested space operations.

7
00:00:18,800 --> 00:00:21,900
Life Science: E.coli, plants, fruit flies, mice,

8
00:00:21,900 --> 00:00:24,500
and more were flown to the International Space Station.

9
00:00:24,500 --> 00:00:27,500
The environment of space helps researchers

10
00:00:27,500 --> 00:00:30,900
uncover the basics of life.

11
00:00:30,900 --> 00:00:33,900
Drones: Technology to coordinate small,

12
00:00:33,900 --> 00:00:36,900
remotely-operated aircraft was tested at sites nationwide.

13

00:00:36,900 --> 00:00:39,300

For these tests, the drones flew beyond the

14

00:00:39,300 --> 00:00:43,000

pilots' lines of sight in sparsely populated areas.

15

00:00:43,000 --> 00:00:45,500

SOFIA: The SOFIA airborne observatory deployed

16

00:00:45,500 --> 00:00:48,300

to New Zealand and Florida.

17

00:00:48,300 --> 00:00:50,600

SOFIA observed supernovae, galaxies,

18

00:00:50,600 --> 00:00:52,600

Neptune's moon Triton, and an ancient

19

00:00:52,600 --> 00:00:54,600

rocky object past Pluto.

20

00:00:54,600 --> 00:00:56,600

Kepler: Kepler mission scientists released the

21

00:00:56,600 --> 00:00:58,700

final catalog of over 4,000 planet candidates

22

00:00:58,700 --> 00:01:01,160

beyond our solar system.

23

00:01:01,160 --> 00:01:04,610

To date, more than 2,300 candidates

24

00:01:04,610 --> 00:01:08,600

have been confirmed as planets.

25

00:01:08,600 --> 00:01:11,600

Robotics: Researchers tested robotic rover systems

26

00:01:11,600 --> 00:01:14,300

that will someday operate independently

27

00:01:14,300 --> 00:01:16,910

on the moon, Mars and beyond.

28

00:01:16,910 --> 00:01:19,390

Pluto: Data from the New Horizons flyby of Pluto

29

00:01:19,390 --> 00:01:22,500

led to the discovery of some curious terrain:

30

00:01:22,500 --> 00:01:26,010

Knife-sharp ridges, hundreds of feet tall