



1  
00:00:00,310 --> 00:00:04,300

[Music]

2  
00:00:11,839 --> 00:00:07,220

at NASA Goddard we build space

3  
00:00:15,560 --> 00:00:11,849

telescopes to explore the evolution of

4  
00:00:18,800 --> 00:00:15,570

galaxies stars and planets that make up

5  
00:00:20,960 --> 00:00:18,810

our universe we discover planets around

6  
00:00:22,820 --> 00:00:20,970

other stars and investigate whether they

7  
00:00:26,269 --> 00:00:22,830

can support life and what that life

8  
00:00:29,120 --> 00:00:26,279

might look like we imagine then engineer

9  
00:00:32,089 --> 00:00:29,130

far out missions to answer questions

10  
00:00:36,049 --> 00:00:32,099

about how galaxies and planets formed

11  
00:00:38,660 --> 00:00:36,059

and evolved over time at NASA Goddard we

12  
00:00:40,790 --> 00:00:38,670

study the sun's dynamic behavior and the

13  
00:00:43,310 --> 00:00:40,800

space weather that it generates so we

14

00:00:45,950 --> 00:00:43,320

can protect astronauts and satellites in

15

00:00:49,160 --> 00:00:45,960

space as well as our technology on the

16

00:00:51,290 --> 00:00:49,170

ground at NASA Goddard we use the data

17

00:00:54,350 --> 00:00:51,300

from a constellation of satellites to

18

00:00:57,920 --> 00:00:54,360

generate global maps of rain and snow

19

00:01:00,470 --> 00:00:57,930

pulling to monitor how greenhouse gases

20

00:01:02,750 --> 00:01:00,480

move through the atmosphere and to model

21

00:01:07,850 --> 00:01:02,760

all of the Earth's systems to create a

22

00:01:10,010 --> 00:01:07,860

dynamic portrait of our planet we launch

23

00:01:12,350 --> 00:01:10,020

small rockets carrying University

24

00:01:16,730 --> 00:01:12,360

developed experiments in the space and

25

00:01:19,039 --> 00:01:16,740

provide low cost space platform for

26

00:01:23,359 --> 00:01:19,049

testing new instrument concepts and

27

00:01:30,499 --> 00:01:26,719

at NASA Goddard we ensure every craft is

28

00:01:32,749 --> 00:01:30,509

space ready with last noise and shake

29

00:01:35,899 --> 00:01:32,759

instruments to simulate stresses at

30

00:01:38,510 --> 00:01:35,909

launch we expose them to the unforgiving

31

00:01:41,480 --> 00:01:38,520

vacuum of space and to the powerful

32

00:01:43,520 --> 00:01:41,490

magnetic fields at NASA Goddard we

33

00:01:46,550 --> 00:01:43,530

develop and maintain communication links

34

00:01:48,859 --> 00:01:46,560

between Earth and spacecrafts in orbit

35

00:01:51,139 --> 00:01:48,869

we evaluate and improve system software

36

00:01:54,380 --> 00:01:51,149

to reduce risk and our missions large