



1
00:00:06,500 --> 00:00:11,180

A big idea is coming to life.

2
00:00:11,180 --> 00:00:16,400

It's the PACE Ocean Color instrument...OCI...

3
00:00:16,400 --> 00:00:17,999

...designed to measure intensity of light

4
00:00:18,000 --> 00:00:20,400

...across many bands of the

5
00:00:20,400 --> 00:00:24,800

electromagnetic spectrum.

6
00:00:24,800 --> 00:00:28,690

OCI is a one-of-a-kind instrument

7
00:00:28,690 --> 00:00:31,030

and NASA engineers are building it now.

8
00:00:31,030 --> 00:00:33,460

The most advanced ocean color instrument ever,

9
00:00:33,460 --> 00:00:37,000

OCI will collect data to to address essential scientific

10
00:00:37,000 --> 00:00:41,000

questions about our oceans and atmosphere.

11
00:00:41,000 --> 00:00:44,200

This is the engineering model to test the system

12
00:00:44,200 --> 00:00:49,430

that will ultimately be built to fly on PACE.

13
00:00:49,430 --> 00:00:49,500

Engineers will test the model

14

00:00:49,500 --> 00:00:53,300

and those tests will inform the construction

15

00:00:53,300 --> 00:00:59,000

of flight hardware.

16

00:00:59,000 --> 00:01:03,000

Science needs new tools

17

00:01:03,000 --> 00:01:03,800

to answer big questions.

18

00:01:03,800 --> 00:01:04,000

When it launches

19

00:01:04,000 --> 00:01:08,000

The PACE mission will be an Earth science leader

20

00:01:08,000 --> 00:01:11,000

and OCI will provide first-of-its-kind

21

00:01:11,000 --> 00:01:14,800

ocean observations as well as

22

00:01:14,800 --> 00:01:16,000

capabilities to monitor atmospheric aerosols