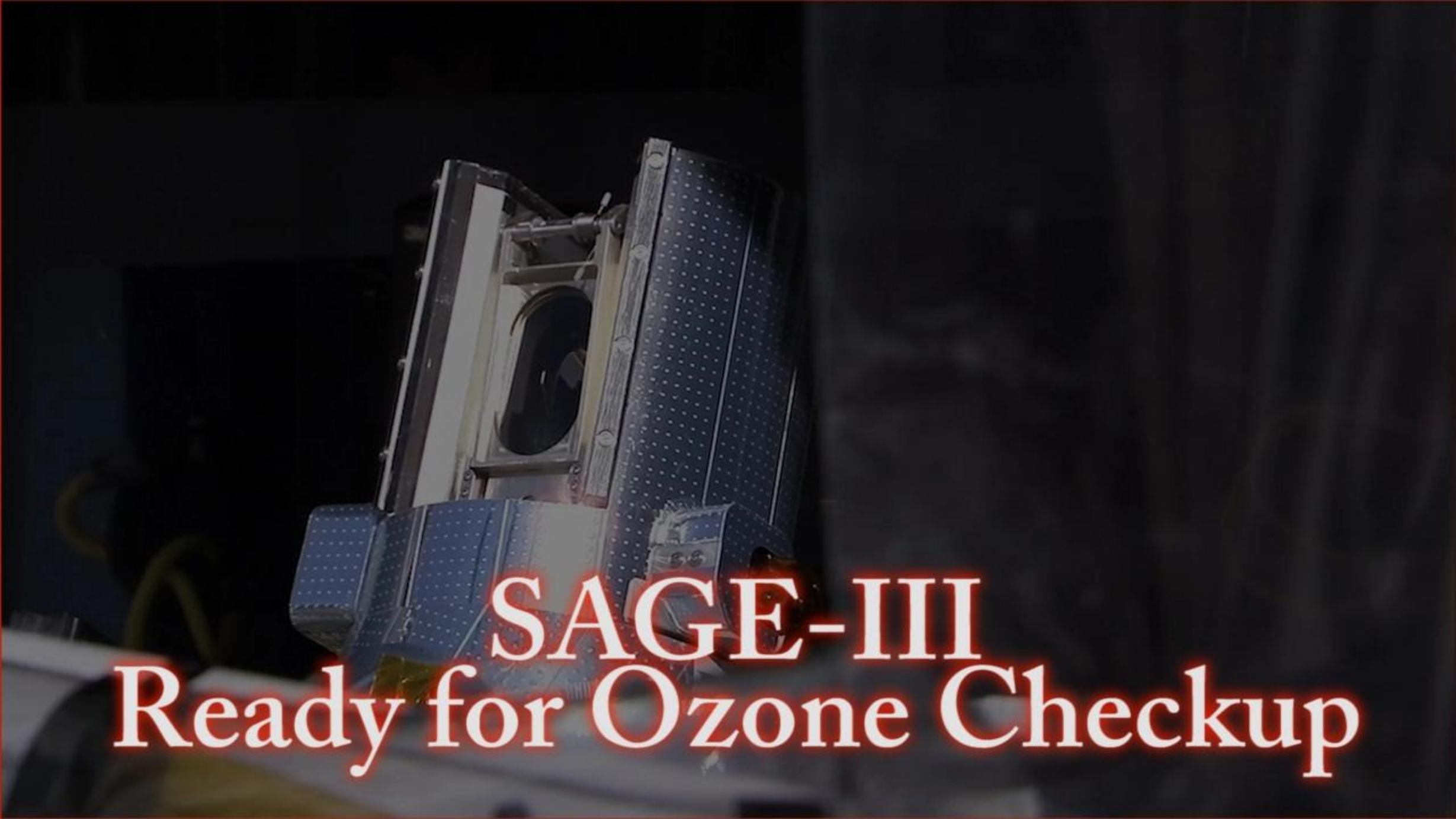
SAGE-III
Ready for Ozone Checkup

1
00:00:03,990 --> 00:00:01,829
sa stands for stratospheric aerosol and

2
00:00:05,550 --> 00:00:04,000
gas experiment it's the third generation

3
00:00:11,990 --> 00:00:05,560
so we call it sage iii

4
00:00:15,589 --> 00:00:12,000
[Music]

5
00:00:18,150 --> 00:00:15,599
what it does is it looks at ozone

6
00:00:20,150 --> 00:00:18,160
water vapor aerosols in the atmosphere

7
00:00:22,390 --> 00:00:20,160
using a solar occultation technique so

8
00:00:24,550 --> 00:00:22,400
it locked onto the sun or the moon and

9
00:00:25,910 --> 00:00:24,560
it tracks that as it does as it rises

10
00:00:27,750 --> 00:00:25,920
through the atmosphere or sets through

11
00:00:30,230 --> 00:00:27,760
the atmosphere of the planet so that we

12
00:00:32,470 --> 00:00:30,240
can get vertical profiles of those gases

13
00:00:34,150 --> 00:00:32,480

more specifically it's ozone that we're

14
00:00:36,630 --> 00:00:34,160
really tracking

15
00:00:38,950 --> 00:00:36,640
we hope to see recovering ozone

16
00:00:40,630 --> 00:00:38,960
throughout the entire stratosphere so

17
00:00:42,389 --> 00:00:40,640
and you know ozone's very important it

18
00:00:44,389 --> 00:00:42,399
protects us from the uv radiation

19
00:00:47,190 --> 00:00:44,399
without that protection we would have

20
00:00:49,270 --> 00:00:47,200
lowered crop yields you know our plants

21
00:00:50,950 --> 00:00:49,280
really don't like uv radiation and we

22
00:00:53,510 --> 00:00:50,960
would have problems too we would have

23
00:00:55,590 --> 00:00:53,520
more skin cancers and cataracts so we

24
00:00:57,670 --> 00:00:55,600
really need that ozone layer in the

25
00:00:59,590 --> 00:00:57,680
stratosphere to protect us i've been

26
00:01:01,830 --> 00:00:59,600
working on this for 20 years now and

27
00:01:03,349 --> 00:01:01,840
it's it's it's going to be amazing to

28
00:01:06,310 --> 00:01:03,359
watch it up there and you know get up