1
00:00:01,420 --> 00:00:05,580
>> We have a measure of
plant photosynthesis activity

2
00:00:05,580 --> 00:00:07,950
in combination with the carbon dioxide.

3
00:00:07,950 --> 00:00:09,870
When plants are doing photosynthesis,

4
00:00:09,870 --> 00:00:11,440
they emit a little bit of light,

5
00:00:11,440 --> 00:00:13,930
and we can sense that
light in our measurements.

6
00:00:13,930 --> 00:00:15,800
>> OCO-3 is gonna be measuring

7
00:00:15,800 --> 00:00:17,860
this emission called fluorescence,

8
00:00:17,860 --> 00:00:19,200
and that's gonna give us insight

9
00:00:19,200 --> 00:00:21,080
into planetary photosynthesis

10
00:00:21,080 --> 00:00:23,260
and the underlying drivers

11
00:00:23,260 --> 00:00:26,390
of really why is CO2 changing over time,

12
00:00:26,390 --> 00:00:28,850
and this would give us
more insight into why

13
00:00:28,850 --> 00:00:30,920
plants use CO2 for growing.

14
00:00:30,920 --> 00:00:32,290
The combination of these measurements

15
00:00:32,290 --> 00:00:33,840
tell us about the relationship

16
00:00:33,840 --> 00:00:36,240
between this net uptake of CO2 over time