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1
00:00:00,350 --> 00:00:02,720

Of all the CO₂ that humans are emitting into the atmosphere,

2
00:00:02,740 --> 00:00:06,990

about half is being absorbed by the land and the oceans.

3
00:00:07,010 --> 00:00:10,620

To better understand the processes that control carbon emission and carbon uptake,

4
00:00:10,640 --> 00:00:13,080

NASA is working to develop realistic models that describe

5
00:00:13,100 --> 00:00:16,980

how carbon moves between the atmosphere, land and oceans.

6
00:00:17,000 --> 00:00:18,680

We combine a wealth of satellite data

7
00:00:18,700 --> 00:00:21,020

with a description of physical processes

8
00:00:21,040 --> 00:00:22,900

that control the carbon cycle.

9
00:00:22,920 --> 00:00:26,330

A whole lot of math and computer power in order to better understand