



1
00:00:14,150 --> 00:00:11,749
one of the satellites that we use to

2
00:00:16,390 --> 00:00:14,160
study the earth is the terra satellite

3
00:00:19,189 --> 00:00:16,400
which has on board a number of different

4
00:00:21,189 --> 00:00:19,199
instruments a big one is called modis

5
00:00:22,310 --> 00:00:21,199
and it takes pictures of the earth's

6
00:00:24,310 --> 00:00:22,320
surface

7
00:00:26,710 --> 00:00:24,320
and studies plant life among other

8
00:00:29,189 --> 00:00:26,720
things and we're able to look at the

9
00:00:31,750 --> 00:00:29,199
earth's surface and see how much plants

10
00:00:34,470 --> 00:00:31,760
are growing and we can even determine

11
00:00:36,630 --> 00:00:34,480
how much carbon dioxide plants take out

12
00:00:39,110 --> 00:00:36,640
of the atmosphere as part of the

13
00:00:41,350 --> 00:00:39,120

photosynthetic process

14

00:00:44,229 --> 00:00:41,360

and so what we look at is the entire

15

00:00:45,510 --> 00:00:44,239

global landscape we look at how much

16

00:00:48,069 --> 00:00:45,520

carbon is being taken out of the

17

00:00:50,229 --> 00:00:48,079

atmosphere into plants and we look at

18

00:00:52,069 --> 00:00:50,239

how our use of the land surface

19

00:00:55,110 --> 00:00:52,079

especially with agriculture and

20

00:00:56,709 --> 00:00:55,120

urbanization affects surface temperature

21

00:00:58,470 --> 00:00:56,719

and then how that surface temperature

22

00:01:00,630 --> 00:00:58,480

then affects climate

23

00:01:03,510 --> 00:01:00,640

such as rainfall which is also very

24

00:01:05,509 --> 00:01:03,520

important for the production of plants