



1
00:00:10,799 --> 00:00:06,780
every second of every hour 365 days a

2
00:00:15,509 --> 00:00:10,809
year a constant flow of information to

3
00:00:18,060 --> 00:00:15,519
answer a complex set of questions the

4
00:00:20,130 --> 00:00:18,070
orbiting carbon Observatory to NASA's

5
00:00:23,450 --> 00:00:20,140
first satellite dedicated to study in

6
00:00:26,560 --> 00:00:23,460
carbon dioxide in Earth's atmosphere

7
00:00:29,740 --> 00:00:26,570
carbon dioxide one carbon atom

8
00:00:33,069 --> 00:00:29,750
sandwiched between two oxygen atoms a

9
00:00:35,420 --> 00:00:33,079
greenhouse gas vital for life on Earth

10
00:00:38,030 --> 00:00:35,430
but with warmer global temperatures

11
00:00:40,880 --> 00:00:38,040
rising sea levels melting glaciers and

12
00:00:43,970 --> 00:00:40,890
extreme weather events the earth is out

13
00:00:45,649 --> 00:00:43,980

of balance the amount of co2 in our

14

00:00:47,600 --> 00:00:45,659

atmosphere produced through Earth's

15

00:00:50,899 --> 00:00:47,610

natural processes as well as human

16

00:00:53,719 --> 00:00:50,909

activities is increasing and changing

17

00:00:56,840 --> 00:00:53,729

our planet but just how much change our

18

00:00:59,569 --> 00:00:56,850

earth can handle is uncertain and oco-2

19

00:01:01,579 --> 00:00:59,579

will provide answers creating the

20

00:01:03,979 --> 00:01:01,589

clearest picture ever of global carbon

21

00:01:07,700 --> 00:01:03,989

dioxide to help us better understand how

22

00:01:10,940 --> 00:01:07,710

the ocean soil atmosphere and forests

23

00:01:12,919 --> 00:01:10,950

absorb and give off carbon dioxide not

24

00:01:17,240 --> 00:01:12,929

just as a snapshot in time but as

25

00:01:19,190 --> 00:01:17,250

patterns over weeks months and years the

26

00:01:21,350 --> 00:01:19,200

orbiting carbon Observatory will shed

27

00:01:24,710 --> 00:01:21,360

new light on understanding carbon and

28

00:01:25,999 --> 00:01:24,720

its role in our planets future sharing

29

00:01:28,399 --> 00:01:26,009

what we will learn with the world

30

00:01:31,370 --> 00:01:28,409

helping us to better manage our

31

00:01:33,080 --> 00:01:31,380

resources and activities and having the

32

00:01:36,950 --> 00:01:33,090

right information to make informed

33

00:01:38,800 --> 00:01:36,960

decisions for this and future

34

00:01:41,460 --> 00:01:38,810

generations

35

00:01:44,710 --> 00:01:41,470

the orbiting carbon observatory to