



1  
00:00:14,230 --> 00:00:12,390  
one of the key variables that we at nasa

2  
00:00:16,710 --> 00:00:14,240  
have been studying with satellite data

3  
00:00:19,029 --> 00:00:16,720  
is sea ice in the polar regions

4  
00:00:21,429 --> 00:00:19,039  
sea ice is a really important component

5  
00:00:23,109 --> 00:00:21,439  
of the polar regions does things like

6  
00:00:25,990 --> 00:00:23,119  
insulates between the ocean the

7  
00:00:28,470 --> 00:00:26,000  
atmosphere reflects solar radiation

8  
00:00:30,310 --> 00:00:28,480  
extends over a very large area in both

9  
00:00:32,709 --> 00:00:30,320  
the polar regions and so it has an

10  
00:00:35,190 --> 00:00:32,719  
impact has an impact that propagates

11  
00:00:37,270 --> 00:00:35,200  
sometimes to lower latitudes also

12  
00:00:39,350 --> 00:00:37,280  
so we want to study this and the only

13  
00:00:42,869 --> 00:00:39,360

way really to study it effectively on

14

00:00:45,029 --> 00:00:42,879

the large scale is with satellite data

15

00:00:47,350 --> 00:00:45,039

which gives us a beautiful view of both

16

00:00:48,630 --> 00:00:47,360

north polar and south polar region so

17

00:00:50,630 --> 00:00:48,640

we've been doing that and we've been

18

00:00:52,470 --> 00:00:50,640

doing it for 30 years and we've been

19

00:00:54,389 --> 00:00:52,480

finding that in the arctic case that

20

00:00:55,590 --> 00:00:54,399

arctic sea ice has actually decreased

21

00:00:58,630 --> 00:00:55,600

quite a bit

22

00:01:00,709 --> 00:00:58,640

over that time span of about 30 years

23

00:01:02,790 --> 00:01:00,719

whereas the antarctic has not the

24

00:01:05,109 --> 00:01:02,800

antarctic has been increasing

25

00:01:08,070 --> 00:01:05,119

this is a puzzle that many of us are

26

00:01:09,990 --> 00:01:08,080

interested in solving and it also the

27

00:01:11,670 --> 00:01:10,000

arctic case fits in really well with

28

00:01:14,390 --> 00:01:11,680

global warming and has

29

00:01:16,710 --> 00:01:14,400

many people interested because of how it