



1  
00:00:04,640 --> 00:00:02,119  
the impacts of an El Nino are seen all

2  
00:00:06,860 --> 00:00:04,650  
over the world one that's perhaps most

3  
00:00:09,379 --> 00:00:06,870  
easily visible from space is the change

4  
00:00:11,720 --> 00:00:09,389  
in ocean color that indicates the change

5  
00:00:13,749 --> 00:00:11,730  
in populations of microscopic marine

6  
00:00:16,609 --> 00:00:13,759  
plants called phytoplankton

7  
00:00:18,490 --> 00:00:16,619  
phytoplankton are tiny organisms that

8  
00:00:21,500 --> 00:00:18,500  
make up the base of the marine food web

9  
00:00:23,810 --> 00:00:21,510  
during an El Nino warm waters from the

10  
00:00:25,939 --> 00:00:23,820  
western Pacific migrate eastward towards

11  
00:00:27,769 --> 00:00:25,949  
South America blocking the supply of

12  
00:00:30,380 --> 00:00:27,779  
nutrients from the lower depths of the

13  
00:00:31,959 --> 00:00:30,390

ocean to the sea surface this causes

14

00:00:34,400 --> 00:00:31,969

significant losses in phytoplankton

15

00:00:37,130 --> 00:00:34,410

populations particularly along the

16

00:00:38,950 --> 00:00:37,140

equator towards South America this

17

00:00:41,410 --> 00:00:38,960

decline echoes through many species

18

00:00:44,330 --> 00:00:41,420

small fish that feed on phytoplankton

19

00:00:46,639 --> 00:00:44,340

starve this affects everything from

20

00:00:49,130 --> 00:00:46,649

penguin and iguana populations in the

21

00:00:51,709 --> 00:00:49,140

Galapagos to governments managing

22

00:00:53,779 --> 00:00:51,719

fisheries this view from NASA satellites

23

00:00:55,790 --> 00:00:53,789

helps us to understand the role of ocean