



1
00:00:08,260 --> 00:00:04,780
I didn't plan on making a film about

2
00:00:09,730 --> 00:00:08,270
puffins when i arrived in iceland but

3
00:00:11,980 --> 00:00:09,740
when i got there i met a puffin

4
00:00:13,930 --> 00:00:11,990
biologist who told me that this

5
00:00:16,359 --> 00:00:13,940
particular region in Iceland which is

6
00:00:18,310 --> 00:00:16,369
the Westman Islands happens to be the

7
00:00:25,480 --> 00:00:18,320
largest breeding colony of puffins in

8
00:00:27,550 --> 00:00:25,490
the world they're everywhere my name is

9
00:00:29,470 --> 00:00:27,560
Mariah frost ich I'm an earth science

10
00:00:31,509 --> 00:00:29,480
film producer at NASA Goddard Space

11
00:00:34,479 --> 00:00:31,519
Flight Center I make web shorts short

12
00:00:37,209 --> 00:00:34,489
web videos on various climate change

13
00:00:40,660 --> 00:00:37,219

topics so that's often involving

14

00:00:42,430 --> 00:00:40,670

satellite data I don't often get to go

15

00:00:46,180 --> 00:00:42,440

into the field for these kinds of

16

00:00:49,119 --> 00:00:46,190

projects people in the Westman Islands

17

00:00:50,680 --> 00:00:49,129

care a lot about puffins the first

18

00:00:53,400 --> 00:00:50,690

settlers who arrived in this region

19

00:00:57,580 --> 00:00:53,410

really depended on puffins for survival

20

00:00:59,470 --> 00:00:57,590

and in the last three years the puffins

21

00:01:01,990 --> 00:00:59,480

food supply which has been abundant

22

00:01:06,789 --> 00:01:02,000

throughout history has started to become

23

00:01:09,490 --> 00:01:06,799

scarce in the years since i went to

24

00:01:12,190 --> 00:01:09,500

iceland they have drawn a connection

25

00:01:17,460 --> 00:01:12,200

between the disappearance of the puffins

26
00:01:22,749 --> 00:01:21,039
phytoplankton is the basis of the marine

27
00:01:25,330 --> 00:01:22,759
food chain and throughout the world

28
00:01:27,640 --> 00:01:25,340
we're seeing decreasing phytoplankton

29
00:01:29,710 --> 00:01:27,650
and that's connected to sea surface

30
00:01:32,289 --> 00:01:29,720
temperatures increasing slightly in the

31
00:01:33,999 --> 00:01:32,299
last decade and the way NASA fits into

32
00:01:36,609 --> 00:01:34,009
that whole picture is we have a whole

33
00:01:39,130 --> 00:01:36,619
suite of Earth observing satellites one

34
00:01:44,350 --> 00:01:39,140
of which seawifs is measuring global

35
00:01:46,420 --> 00:01:44,360
levels of phytoplankton so researchers

36
00:01:48,730 --> 00:01:46,430
around the world are able to use data

37
00:01:51,490 --> 00:01:48,740
coming in from seawifs to study things

38
00:01:54,550 --> 00:01:51,500

like the puffins food supply in iceland

39

00:01:57,130 --> 00:01:54,560

so it's a pretty unique connection that

40

00:01:58,810 --> 00:01:57,140

this data set is available it's not just

41

00:02:01,510 --> 00:01:58,820

for scientists it can be for fishermen

42

00:02:03,219 --> 00:02:01,520

or other folks that might be interested

43

00:02:08,449 --> 00:02:03,229

in what's happening with the basis of

44

00:02:13,380 --> 00:02:11,339

the whole reason why I chose to go into

45

00:02:15,059 --> 00:02:13,390

science filmmaking is because I'm

46

00:02:17,309 --> 00:02:15,069

interested in communicating science

47

00:02:20,220 --> 00:02:17,319

stories and I work at NASA Goddard

48

00:02:21,720 --> 00:02:20,230

because this is where some of the most