



1

00:00:00,010 --> 00:00:04,120

Music, Nelson: We have just 2 and a half minutes.

2

00:00:04,140 --> 00:00:07,660

None of the instruments can crash.

3

00:00:07,680 --> 00:00:12,460

The computer cannot crash. Until you see those first images, showing up on

4

00:00:12,490 --> 00:00:16,500

the computer screen, that's a tense feeling.

5

00:00:21,580 --> 00:00:20,560

music

6

00:00:21,580 --> 00:00:28,420

Nat: We go to Indonesia, we set up the experiment, and

7

00:00:28,420 --> 00:00:33,100

we are going to observe very close to the solar surface

8

00:00:33,120 --> 00:00:36,420

and how the physical conditions of the corona are.

9

00:00:36,420 --> 00:00:41,960

Nelson: What we are trying to learn from this experiment is how capable the polarization camera is.

10

00:00:41,960 --> 00:00:45,640

Nat: People used to have a filter wheel and a polarizer wheel.

11

00:00:45,670 --> 00:00:49,840

So, now the polarization camera

12

00:00:49,860 --> 00:00:53,060

automatically gives you all the polarization values.

13

00:00:53,060 --> 00:00:58,060

We have cut down the length of time required by 50%.

14

00:00:58,080 --> 00:01:02,260

Nelson: The images taken through those 4 color filters

15

00:01:02,280 --> 00:01:06,440

would allow us to measure the temperature and also the windspeed.

16

00:01:06,460 --> 00:01:10,620

Nat: You know, you wait for months and years before

17

00:01:10,640 --> 00:01:13,840

you can see this. This is an outstanding opportunity

18

00:01:13,840 --> 00:01:18,980

to see the beauty in nature.