



1
00:00:16,630 --> 00:00:18,970
My name is Lola Fatoyinbo-Agueh.

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00:00:18,970 --> 00:00:24,070
I am a Research Physical scientist in the
Biospheric Sciences Lab.

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00:00:24,070 --> 00:00:25,570
I actually grew up in a lot of countries.

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00:00:25,570 --> 00:00:31,939
I moved every two to three years, because
my dad was working as a journalist and with

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00:00:31,939 --> 00:00:34,070
international organizations.

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00:00:34,070 --> 00:00:38,870
And so I spent a lot of time living in West
Africa and it was really clear to me that

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00:00:38,870 --> 00:00:44,150
there was a direct correlation between environmental
conditions and the human conditions.

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00:00:44,150 --> 00:00:48,239
Now that I work at NASA I am able to look
at all these countries; everywhere I lived

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00:00:48,239 --> 00:00:49,420
and places where I haven't lived.

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00:00:49,420 --> 00:00:53,460
I can basically see them all from space.

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00:00:53,460 --> 00:00:58,530
I did my graduate work in Mozambique and in
Mozambique 40% of their export is actually

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00:00:58,530 --> 00:00:59,530

shrimp.

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00:00:59,530 --> 00:01:03,050

They use the mango as nursery habitat, so there is a direct relationship between the

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00:01:03,050 --> 00:01:07,500

GDP of a country and their mango coverage.

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00:01:07,500 --> 00:01:13,150

Mango forest, actually store a lot of carbon in them; they store them in the above ground

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00:01:13,150 --> 00:01:17,479

biomass, so in the trees themselves, but also in below biomass in the soil.

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00:01:17,479 --> 00:01:23,710

They are also very important for nursery habitats for many fish species and crustaceans.

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00:01:23,710 --> 00:01:29,109

And actually knowing just the structure of the forest, like how tall it is and the extent,

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00:01:29,109 --> 00:01:32,340

really gives you a good indication of how healthy a forest is.

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00:01:32,340 --> 00:01:39,469

I mostly work on estimating forest 3-D structure, so basically estimating forest height.

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00:01:39,469 --> 00:01:41,770

I love going in to the field.

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00:01:41,770 --> 00:01:44,139

I love making new discoveries.

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00:01:44,139 --> 00:01:52,189

I love it when your results are really validated
by your research.

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00:01:52,189 --> 00:01:57,229

I love coming in here every day, so you know
there are a lot of great things happening