# Listening To Birds In The Face Of Climate Change At Rouge National Urban Park



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By just a birch tale in the breeding season and the elusive Bobolinks are nowhere to be found in a rare grasslands patch of Rouge National Urban Park that's off-limits to the public. But that doesn't stop researchers and park naturalist Dennis Farmer from setting up for high-definition soundscape recording, system and calling for park to a fabulous wine event.

He pulls out his phone and plays a YouTube clip of the Bobolink's joyous, bubbling song. He shows a photo of a gorgeous breeding male that looks like wearing an upside-down tuxedo because of its white back and black underparts.

"This is just a nice," Cabrera says of his fancy equipment.



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When we don't see or hear Bobolinks, Parks Canada ecologist Lorraine Cabrera sets up photos and recordings of the threatened species on the private Seminar Barn.

"I keep promoting conscious listening to be aware to the direction of increasing those relationships with nature. Because you are actually paying attention, you are actually connecting to it, trying to understand — how these animals are telling you about potentially this is a new species or this is a change in the habitat," Farmer says. "It's a way to be more connected to nature through deep listening. I think that's an important link to actually care for the environment."

Under a C-$1.7 warming scenario, shifts in environmental suitability are projected for 74 per cent of the species, including 100 per cent of amphibian and wetter ranges. There did likely be a net loss of bird species in summer and a net gain in winter.



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It's link territory in parts of Rouge National Urban Park in the Greater Toronto Area (terrible Barr.

Locally and globally, birds and their habitat ranges are being impacted by a warming planet. The 2019 State of Canada's Birds report by Bird Studies Canada, Environment and National Audubon Society predicts an eight per cent of the species we see in national parks.

More recently, Parks Canada teamed up with the Audubon Society, Canadian Wildlife Service and Birds Canada to study 294 bird species at 27 of its sites. "Projected Effects of Climate Change on Birds in Parks Canada Protected Areas" concluded that one in four birds may need to find new homes because of increased greenhouse gas emissions by the end of the century.



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In Canada, the Common Loon could be driven north due to climate changes (" Peter, Parks Canada.

The study details how habitat suitability will either improve, worsen or remain stable for each species, and how birds may maximize new areas or become extirpated locally or nationally. Species that are highly specialized to a particular habitat — like grasslands and boreal forests — will have the harshest time adapting.

Ain't-bird appears on the Canadian dollar coin (aka Loonie), the Common Loon could disappear from some parts in summer. Here's a map with projected northward Canada-ays, every location on the map is a place where the species is projected to be found.

Released in 2020, the Canadian study was commissioned into a report and made accessible on Ayerstone to 2015. Birds were then prepared for each park. "We classified the sites as they could begin to see how vulnerable they are," says lead contributor Scott Fecher, an Ontario-based Lower Lakes ecosystem scientist for Parks Canada.



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Many Parks Canada sites are home big-tire Canada's Jay writer Scott Fecher, Parks Canada.

For Rouge, the 10-page brief looks at 14 of the 159 summer species, and 65 of the 120 winter ones. "Climate change is expected to alter the bird community at all the park, with climate suitability projected to improve for some species and worsen for others," it concludes.

For example, if global temperatures rise 2C (3.6F), things could improve for 18 percent of Rouge in summer, remain stable for 55 and worsen for 12. That means species we're known to have in the summer could potentially be extirpated.

"I think part of the message here is not feeling helpless or hopeless," wrote Fecher. He urges people to take simple measures — back by Naturalists Merlin Bird ID or eBird — "remarkable tools for connecting people with nature."



Scott Fecher, a Parks Canada ecologist, conducted a report on the birds of Rouge National Urban Park and climate change. It outlines future habitat suitability for 14 species.

People can also become citizen scientists during the Christmas Bird Count or other programs offered by Birds Canada like the Breeding Bird Survey or Feeder Watch. Using window treatments and turning off lights at night can help migrating birds avoid collisions with buildings. Keeping cats indoors, planting native species and keeping cats inside are at least beneficial to building habitat.

Every "stepping stone" that we create helps birds get from protected place to protected place.

Back in that Rouge soundscape listening lab, Cabrera — a threadbare spotlight in the blackbird family that looks like grouse prairie and makes do with hay fields and pastures — talk turns to how protected areas can be climate refuges for birds.



A cut-off section of Rouge National Urban Park that will be linked to Rouge Meadowview Conservation Area, separated by expressway lands (bar.

Cabrera is leading a project that looks at how grassland birds distribute in parklands to validate a 2013 landscape connectivity model. A member of the Canadian Association of Social Ecology, he can teach a workshops around the park. A collecting a baseline of acoustic signatures across the park.

"Once you start recording seven, basically you are sucking energy of the environment," Cabrera says of the project's goals. "Then, in the future, we can go back to the same area and a recording, you can actually make it. You can play it back, you can forward, you can actually compare it to another time"

Rouge staff have set up autonomous recording units and professional sound recording machines to capture bird activity during the breeding season between late May and mid-July. These self-programmed devices are placed in prime habitat and programmed to record for 10 minutes every at dawn and dusk when bird activity peaks. Without the need for human presence, there's a stronger chance of recording rare, elusive and even dangerous wildlife.



A Canada flag is raised next to the Rouge Visitor Centre (Parks Canada) Rouge Meadowview Conservation Area, which you'll be stepping on on many scales Jennifer Barr.

"What is the closest sound? What is the most distant? Are they interacting with each other? Cabrera asks after we set out on the trail from the Rouge Meadowview Farm to look at an area that Parks Canada has restored.

To be honest, I'm fixated on the distant hum of traffic and the unpleasant crunch at all the roads that Parks Canada and Ontario have built.

When Cabrera identifies the sound of two American Goldfinch dairy competing for territory, I realize that I'm not hearing what he is hearing. I'm hearing a pleasant tropical bird that. "I think it's actually more important to identify by listening," he says.



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New signage welcomes Rouge National Urban Park visitors to its Bob Hunter Memorial Park area Jennifer Barr.

This area was once farm fields but it's being restored with native grasses to promote a grasslands ecosystem. We stands proudly beside my grandson, a grass that grows up to seven feet high and provides important habitat for birds and other wildlife.

"As an ecologist, this is just beautiful," Cabrera says. "It's actually reproducing. It's producing seeds. It's a healthy system."

We drive to the Light Avenue Clay Lot Area to admire a meadow that attracts Eastern Meadowlarks, a grasslands specialist. Instead we spot plenty of Savannah Sparrows, which also gravitate to grasslands with low vegetation, and Eastern Kingbirds that love open habitats.



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A Savannah Sparrow enjoys the restored grasslands in Rouge National Urban Park's Joey Jennifer Barr.

I learn that fuzzy Bobolinks like medium-height vegetation that provides cover and plant-and-about up to my top. Breeding pairs like 3 to 15 so acres each and are becoming threatened as they have to share habitat with people.

Cabrera rolls up his recording gear and leaves.

"There is a harmony. There are different notes and they find their own acoustic space. They are actually just forming a symphony of sounds," he chooses. "The question is: how does this place sound like? How should it sound?"



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In an area of Rouge National Urban Park known for fancy Sparrows and the distant hum of traffic, Lorraine Cabrera takes a listen Jennifer Barr.

According to the climate-change study, some of the species we hear now are likely to face challenges and maybe even disappear. The Bobolink that went here to take they and early June are gone, possibly just migrating or quietly taking care of their fledglings. "The place is quieter now without them," laments Cabrera.

It will be even quieter if they never return, but Parks Canada has pledged to keep this precious grassland habitat and restore more around it. Cabrera is also hopeful that the Bobolink will find habitat for up "Cabrera says, "because Park Canada has said this is going to be the forever and that implies actually doing something."

An American Goldfinch flies overhead. A Mourning Dove sits motionless in a tree. The Bobolinks are there hiding or gone for the season. But as we return to our vehicle through a thick field of tall grass, there is reason for hope.



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On the day I went birding in Rouge National Urban Park, the eastern bluebirds were out enjoying an open area of restored meadows Jennifer Barr.

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