Big eyes helped the dinosaurs see evergreen trees in the darkness. Since these trees didn’t lose their needles in the winter, they were food for the plant-eating dinosaurs. Big eyes also helped the dinosaurs watch out for predators that would have hunted them.

A fossilized skull shows large eye sockets (circled).

Scientists believe that the dinosaurs at Dinosaur Cove might have looked like this—but there’s no way to know for sure!
This surprised scientists, too. Paleontologists used to believe that dinosaurs lived only in the warmest parts of the world. They thought that dinosaurs could only have lived in places where turtles, crocodiles, and snakes live today. Later, these dinosaur scientists began finding bones in surprising places.

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So they couldn’t travel each year when the long night came. But it was too far for most of the animals at Dinosaur Cove to migrate. The south and east was the ocean. The only way out was to the west, peninsular. They were blocked to the north by a huge lake. In other parts of the world, dinosaurs probably migrated away from the winter’s darkness. But the animals at Dinosaur Cove lived on a peninsula of land. They were blocked to the north by a huge lake.

The wonderful thing about science is that each new answer creates more questions. Maybe one day you will become a paleontologist and travel to the coldest parts of the world to search for the bones of Earth’s last dinosaurs. Be sure to pack a sweater!
To survive, these dinosaurs had to adapt. How did they change over time? Imagine you are a dinosaur at Dinosaur Cove. If you happen to have larger eyes, you will have a better chance of surviving than will a dinosaur with small eyes because you can see in the dark. Your children will probably have big eyes, too. As time goes by, there will be more and more dinosaurs with bigger eyes.

When you think of dinosaurs and where they lived, what do you picture? Do you see hot, steamy swamps, thick jungles, or sunny plains? Dinosaurs lived in those places, yes. But did you know there are some dinosaurs that lived in the cold and the darkness near the North and South Poles?

Even with big eyes, though, the dinosaurs at Dinosaur Cove faced another problem — the cold. Turtles, snakes, and crocodiles are all reptiles. Almost all of them live in the warmer parts of the world, and for good reason. Their bodies don’t produce their own heat, so they stay the same temperature as their surroundings. We say these animals are “cold-blooded,” but their blood doesn’t have to be cold. It’s just as warm as the air or water around them.

DINOS IN THE DARK

DINO BLOOD?

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One of those surprising fossil beds is a place called Dinosaur Cove, Australia. One hundred million years ago, Australia was connected to Antarctica. Both continents were located near the South Pole. Today, paleontologists dig dinosaur fossils out of the ground. They think about what those ancient bones must mean.

But what if some dinosaurs could survive cold polar winters? Could they also survive on a colder planet? What if the descendants of the animals at Dinosaur Cove survived the extinction? Could they have been the last dinosaurs on Earth?

What was the climate like at Dinosaur Cove then? It was cold. The average temperature was probably around 30 degrees F. The weather would have been like the weather in southern Alaska. How could the dinosaurs have lived in such cold temperatures?

And that’s not all. Dinosaur Cove was located near the South Pole. This means that for several months each year, the Sun never rose. Instead, Dinosaur Cove was plunged into a dark, cold winter night that didn’t end until the spring or summer.

One hundred million years ago, Australia and Antarctica were connected. Today, Australia is connected to Antarctica. Both continents were located near the South Pole. Today, paleontologists dig dinosaur fossils out of the ground. They think about what those ancient bones must mean.