The world's quite a big place, you know. But it's not that big, when you consider how much there is to squeeze into it.

After all, it's home not just to billions of people, but to the most amazing number of other kinds of living things too. And we're all jostling for space.

Us humans have changed the world a lot over the years, to make room for ourselves and to produce the things we need. We've turned forests into farmland, dammed rivers and built towns and cities to live in.

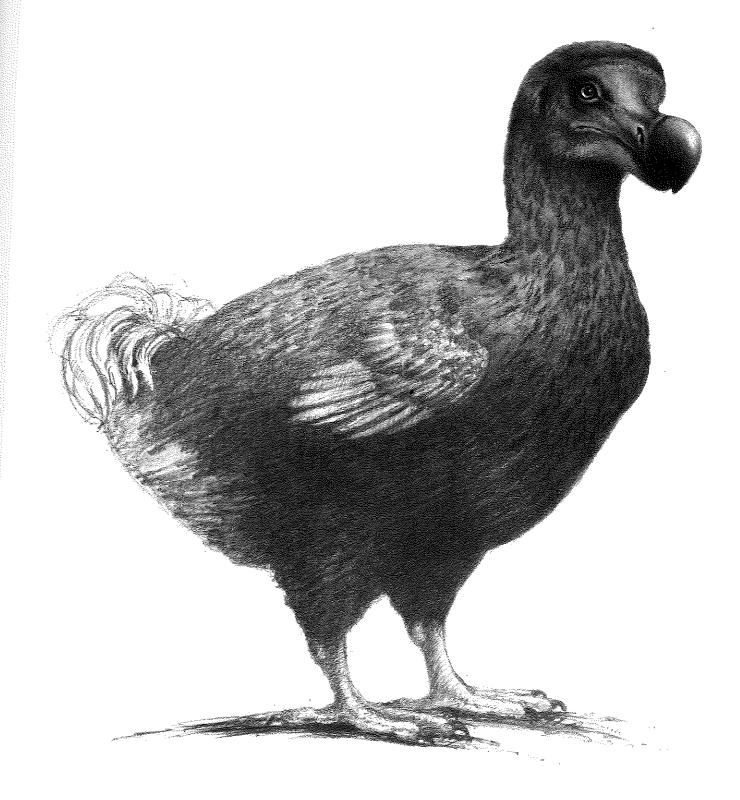
Some of the other animals and plants that we share the Earth with have coped with the changes very well. But some haven't.

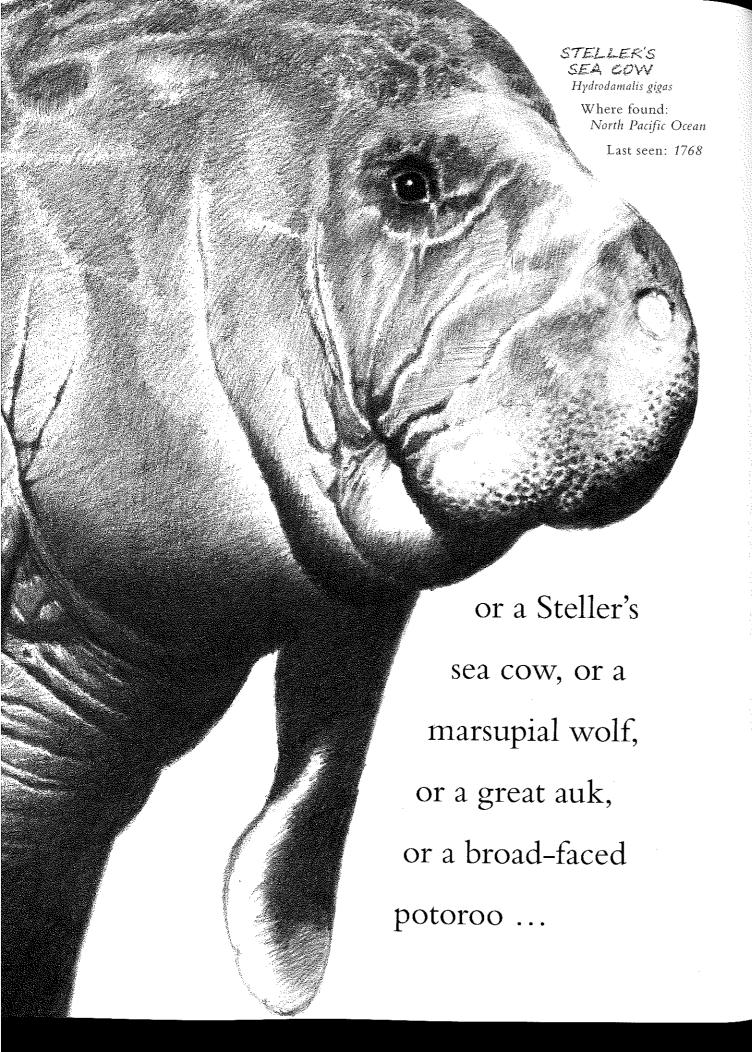
In fact, some have coped so badly that they're not here any more.

They're extinct.

DODO Raphus cucullatus
Where found: Mauritius
in the Indian Ocean
Last seen: 1665

Which means we'll never see a live dodo ...







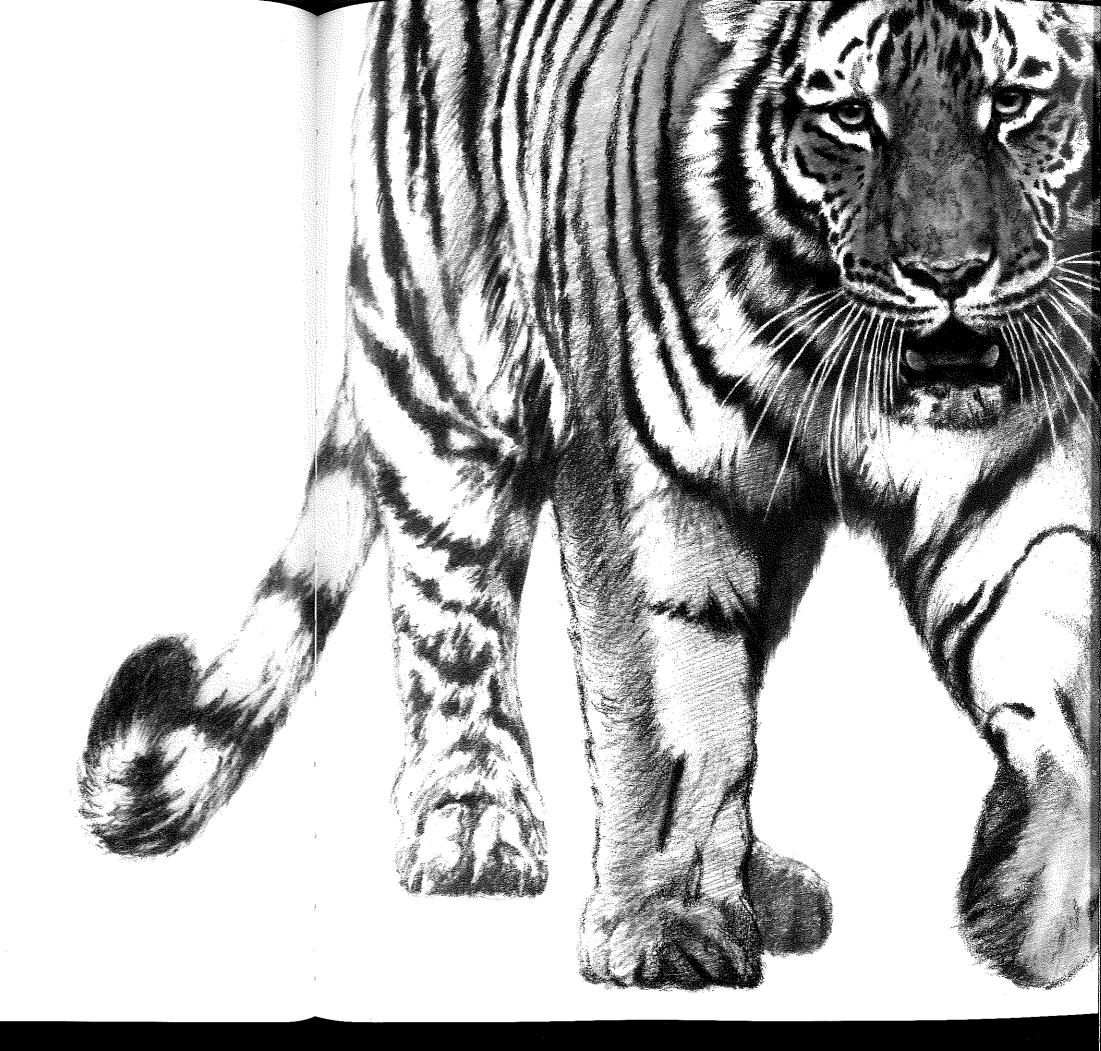
... or ... I could go on and on.

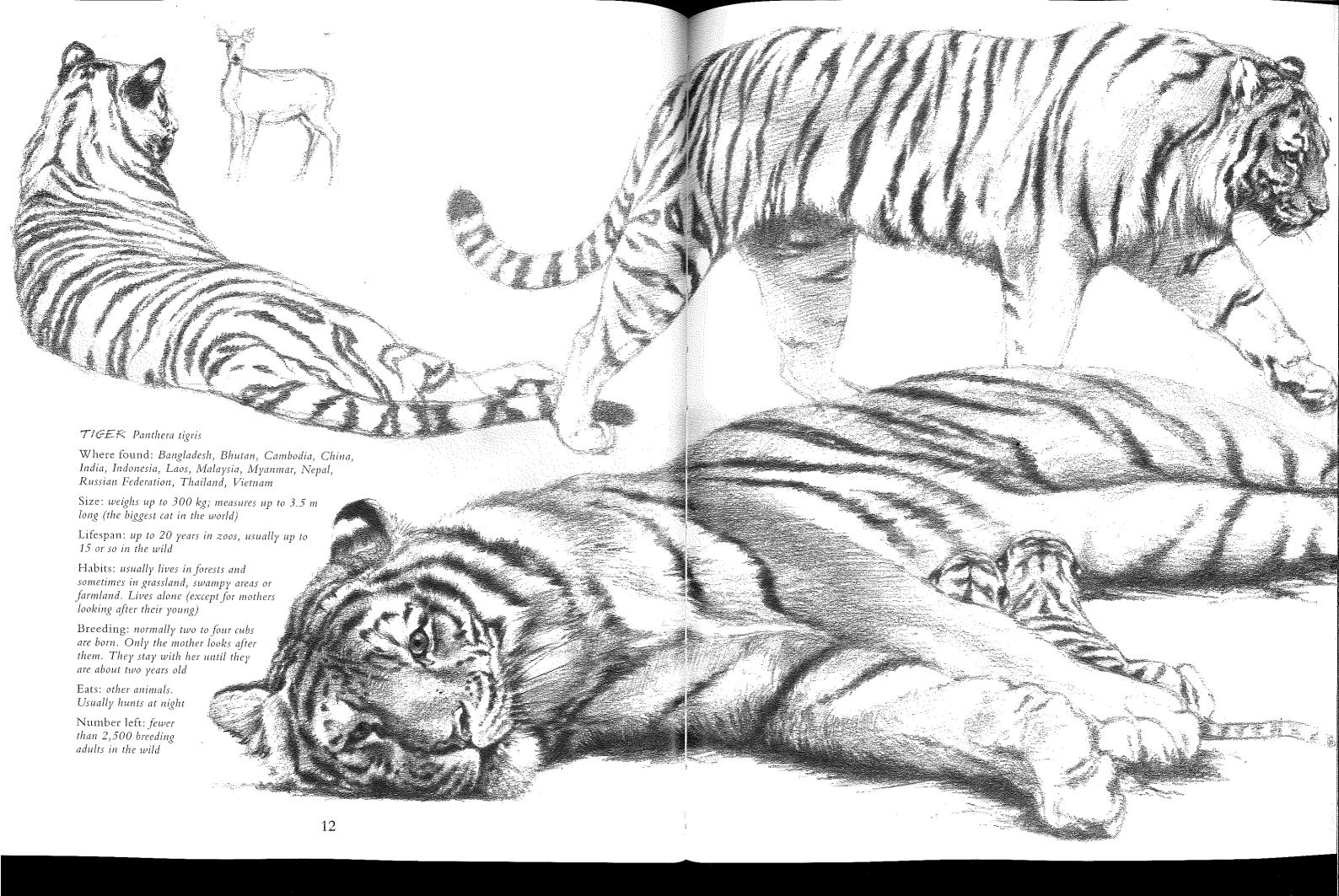
And then there are all those other species that are still around, but only just.

They're in danger of becoming extinct, just like the dodo and Steller's sea cow.

There are so many endangered species all over the world that it's hard to pick out some special ones.

Still, I'm sure you'll all agree that tigers are pretty special...





Tigers are big and they're beautiful and they're fierce. And all this makes life difficult for them these days.

Because they're big they need a lot of space. But the countries where they live, like India and Indonesia, have huge numbers of people in them too, all trying to make a living and all needing to be fed.

And because they're beautiful, people have always hunted them for their skins. They also kill them for their bones and meat to use as medicines.

And because tigers are fierce, they don't mix very well with humans. They usually eat deer and antelope and other wild animals, but when there are people nearby, they may end up eating farm animals like cows, sheep and goats instead. Sometimes (though hardly ever), some tigers, usually old or sick ones, end up eating people too.

So if you were a poor farmer trying to make a living with a couple of cows and a few goats, you might not be too happy if you found there was a hungry tiger living nearby. And if you knew that someone might pay you more for a tiger skin and some bones than you could earn in three whole months working in the fields, then you might find it very tempting to set a trap or two, even if you knew it was against the law.

Perhaps it's not too surprising that there aren't that many tigers left.





Not all endangered species need lots of space.

Take partula snails. They're tiny – so small that one of them could happily spend its whole life in a medium-sized bush. And they're not at all scary.

But like tigers they're in big trouble, although nobody really meant to give them a hard time.

PARTULA SNAILS Partula (over 120 species)

Where found: islands in the Pacific Ocean, especially in French Polynesia where there were originally 63 species. Now only 5 of these are left in the wild and 11 others survive in zoos. The rest are extinct

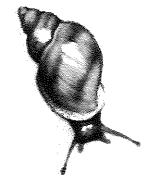
Size: less than 2 cm long Lifespan: up to five years

Habits: lives in trees and bushes

Breeding: each snail produces one live baby

every six to eight weeks

Eats: plants



Partula snails live on islands in the Pacific Ocean, miles from anywhere. There are lots of different kinds and they've been here for millions of years.

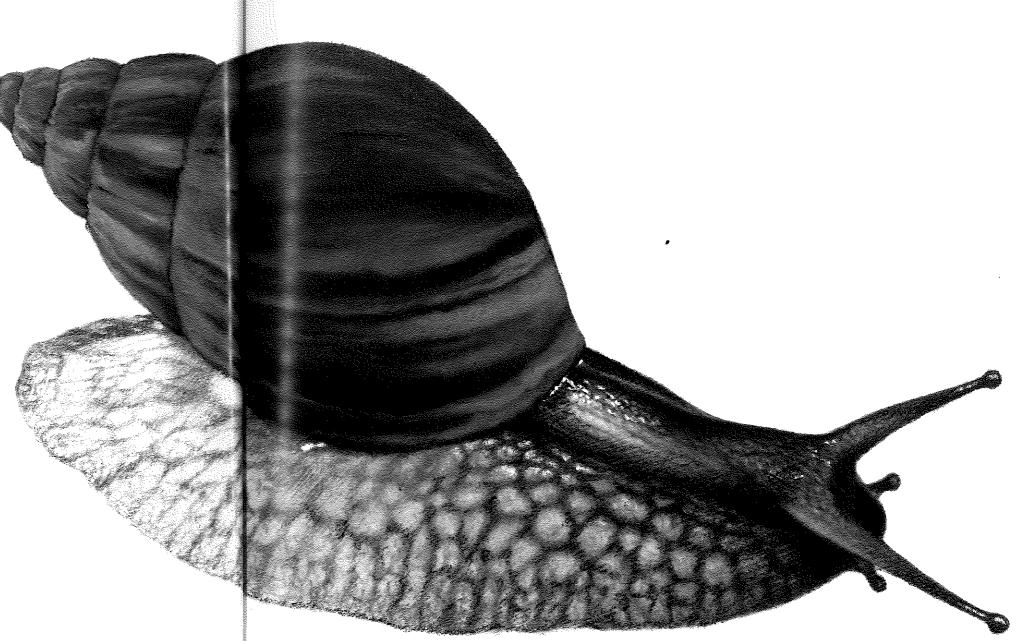
When the first people arrived on the islands hundreds of years ago, the partula snails didn't seem to mind too much and just got on with their lives, feeding on leaves in the forests.

Then, about a hundred years ago, people brought a different kind of snail to the islands. This was the giant African land snail.

They brought it because it's good to eat – it makes especially delicious snail soup – and is very easy to look after.

The giant African land snails rather took to the islands and soon there were loads of them, many more than anyone wanted to eat. And it turned out that they had pretty healthy appetites themselves. Soon they were chomping their way through people's crops as if there was no tomorrow.

Something had to be done.



GIANT AFRICAN LAND SNAIL Achatina fulica

Where found: originally East Africa, now many different

parts of the world, including Asia, South America, the

West Indies and islands in the Pacific Ocean

Unfortunately what people decided to do was to introduce a third kind of snail. This one was called the rosy euglandina and its favourite food was ... other snails.

The idea was that the rosy euglandina would feed on the giant African land snails, and stop them eating everyone's crops.

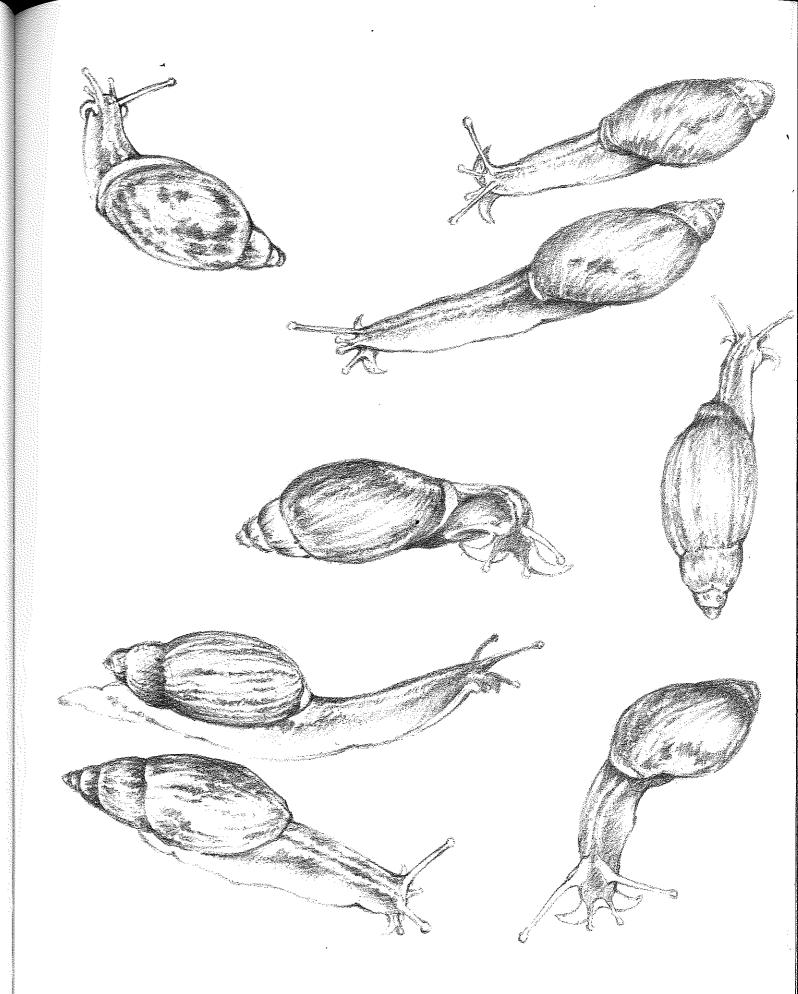
This worked a bit, but not that well – there are still plenty of the giant snails on the islands. The problem was that the rosy euglandinas found the partula snails – which weren't doing anyone any harm – the most delicious snack and quickly started eating them all up instead.

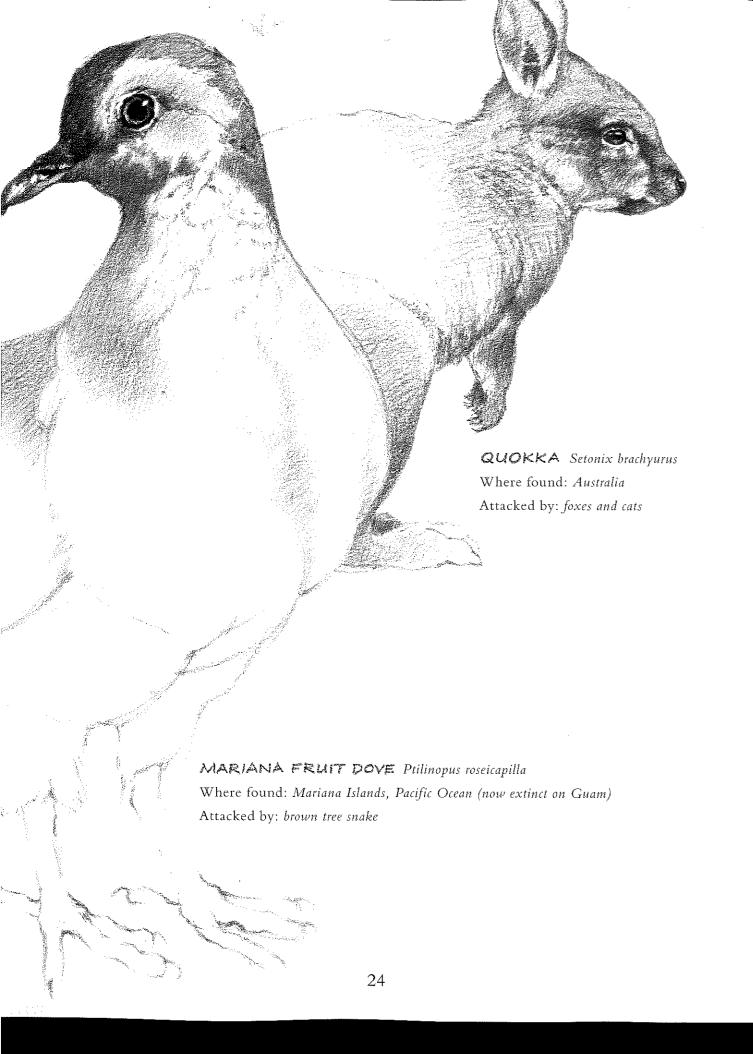
And now there are hardly any partula snails at all. Some kinds have become extinct, and some now live only in zoos and a few still hang on in places that the rosy euglandina hasn't managed to reach, yet.

ROSY EUGLANDINA

Euglandina rosea

Where found: originally Florida, USA, now introduced to French Polynesia, New Guinea, Hawaii, the Philippines and other islands in the Pacific Ocean

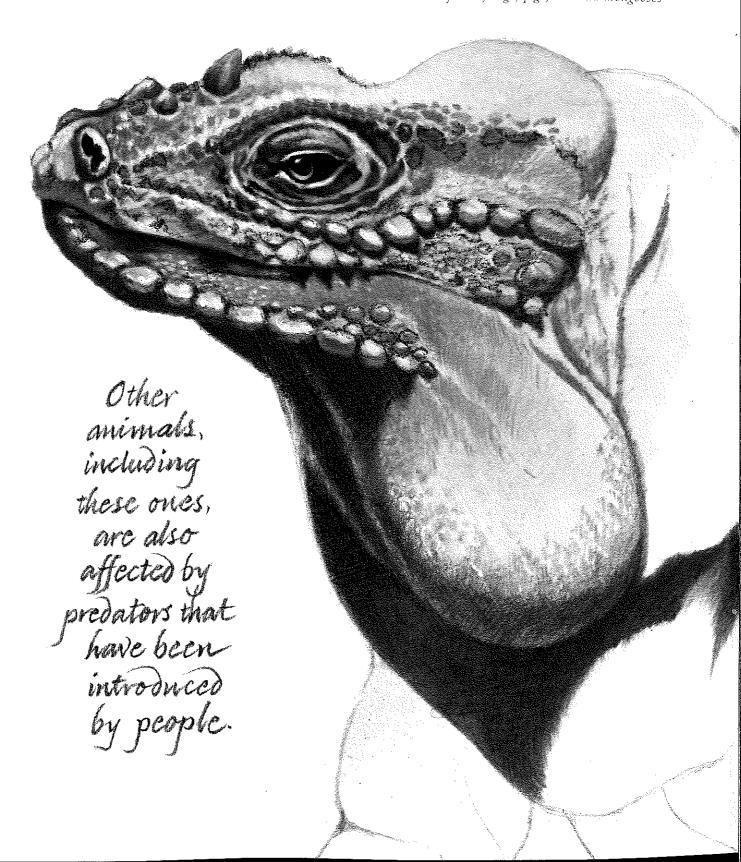




GROUND IGUANAS Cyclura (nine species)

Where found: West Indies

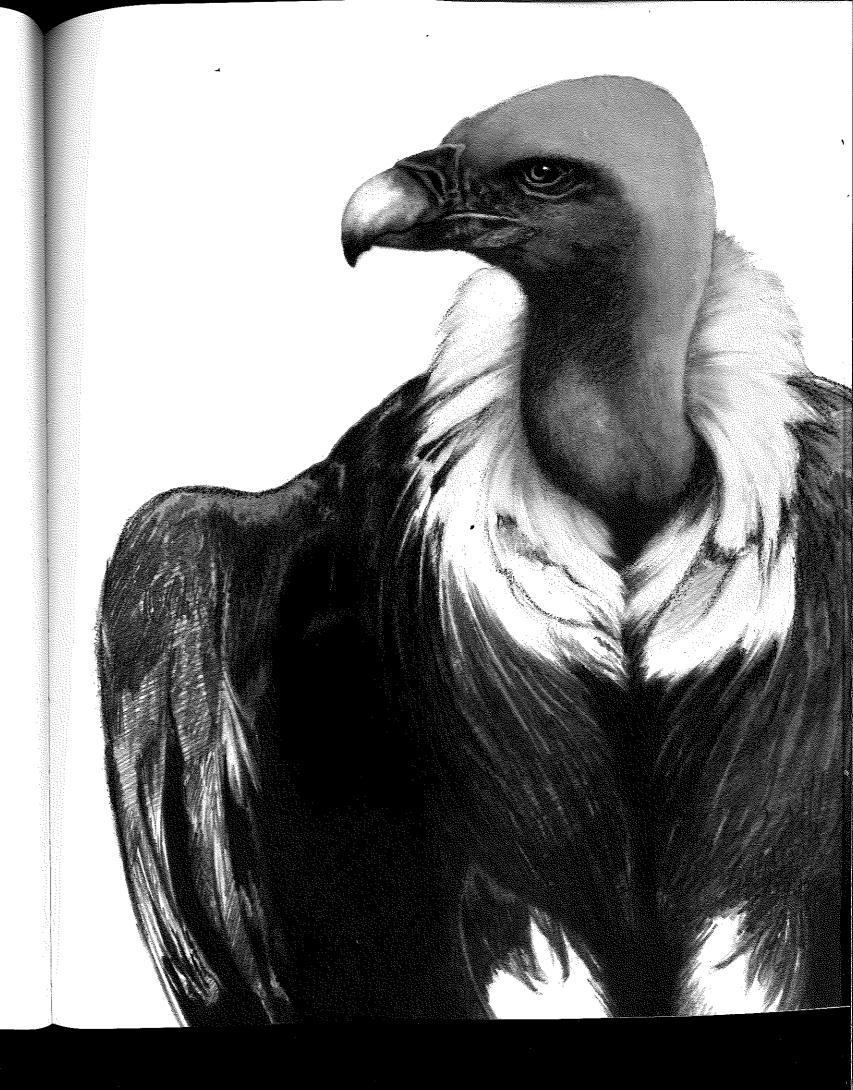
Attacked by: cats, dogs, pigs, rats and mongooses

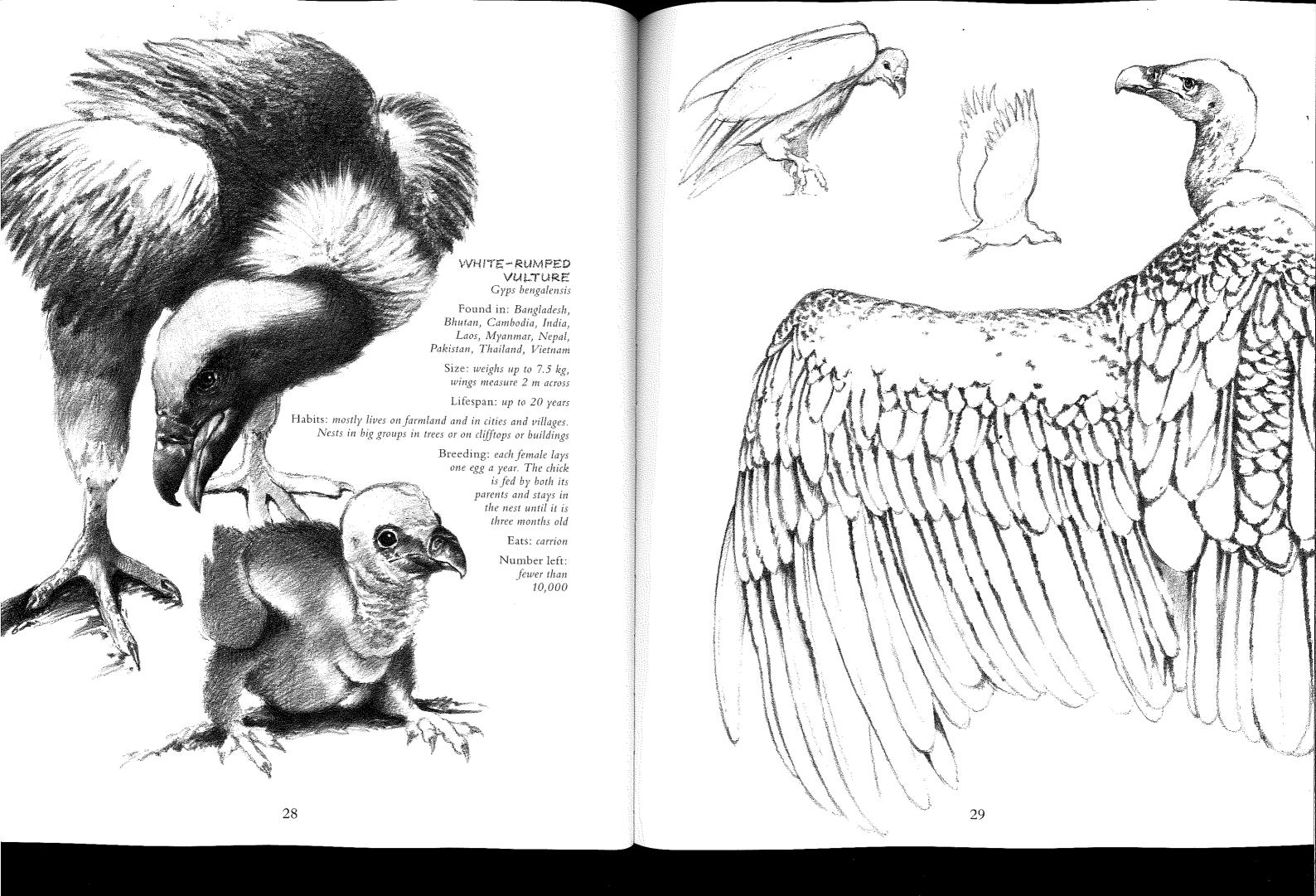


Ugly things can be endangered too.

Perhaps I'm being unfair, but I don't think many people would call vultures exactly beautiful.

But they are definitely Very Useful
Animals. They eat carrion – the bodies
of animals that have already died –
which means they do a very good job of
keeping places clean.





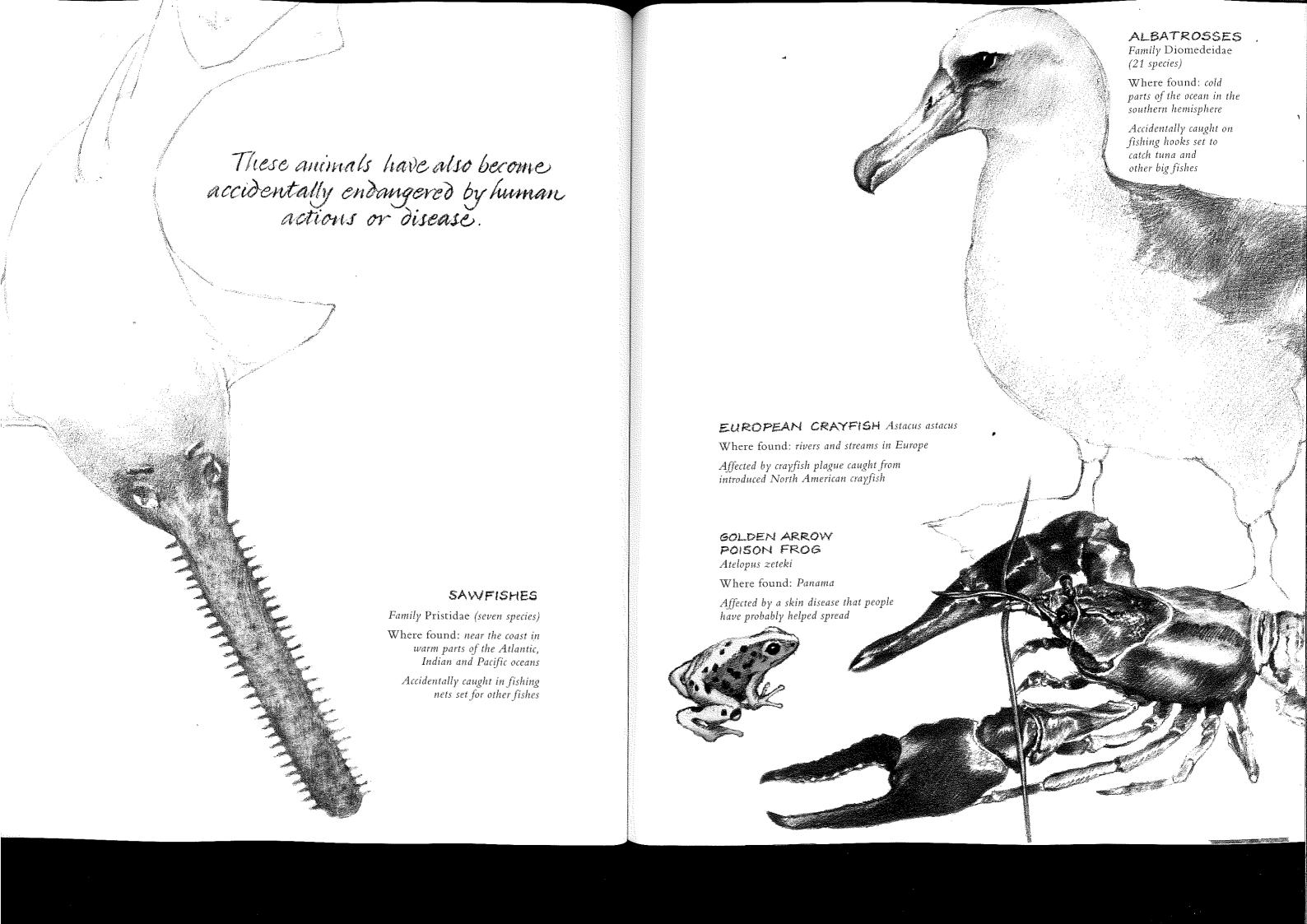
In India, until recently, there were millions of vultures, and they mostly fed on the bodies of cows that had died in the countryside. A while ago, people began to notice that there were a lot fewer vultures around than they remembered. But they weren't being hunted, and there were still places for them to nest and plenty of dead cows for them to eat. Then people noticed that the vultures they did see, perched on trees or buildings, often looked all droopy and miserable, as if they were sick. Was there some disease, like vulture-measles or flu, spreading across India?

It wasn't that, but it took some detective work to find out what the problem was: farmers were giving their cows a kind of medicine that was very poisonous to vultures. When the vultures fed on the body of a cow that had been given the medicine, they got sick and died.

Now that everyone knows what the problem is, perhaps something can be done about it. People can try to persuade the government to stop that particular medicine being sold, and can try to explain to farmers why it shouldn't be used.

But it's never as simple as that. The companies that make the medicine will lose out on the money they get from selling it, and may try to persuade the government not to do anything – who cares about a few ugly vultures, anyway? And even if it's not being made any more, there will still be lots of it about, in shops all over the country and in farmers' store-cupboards. Getting everyone everywhere to stop using it is really difficult. And by the time that's happened, it may be too late for the wild vultures.



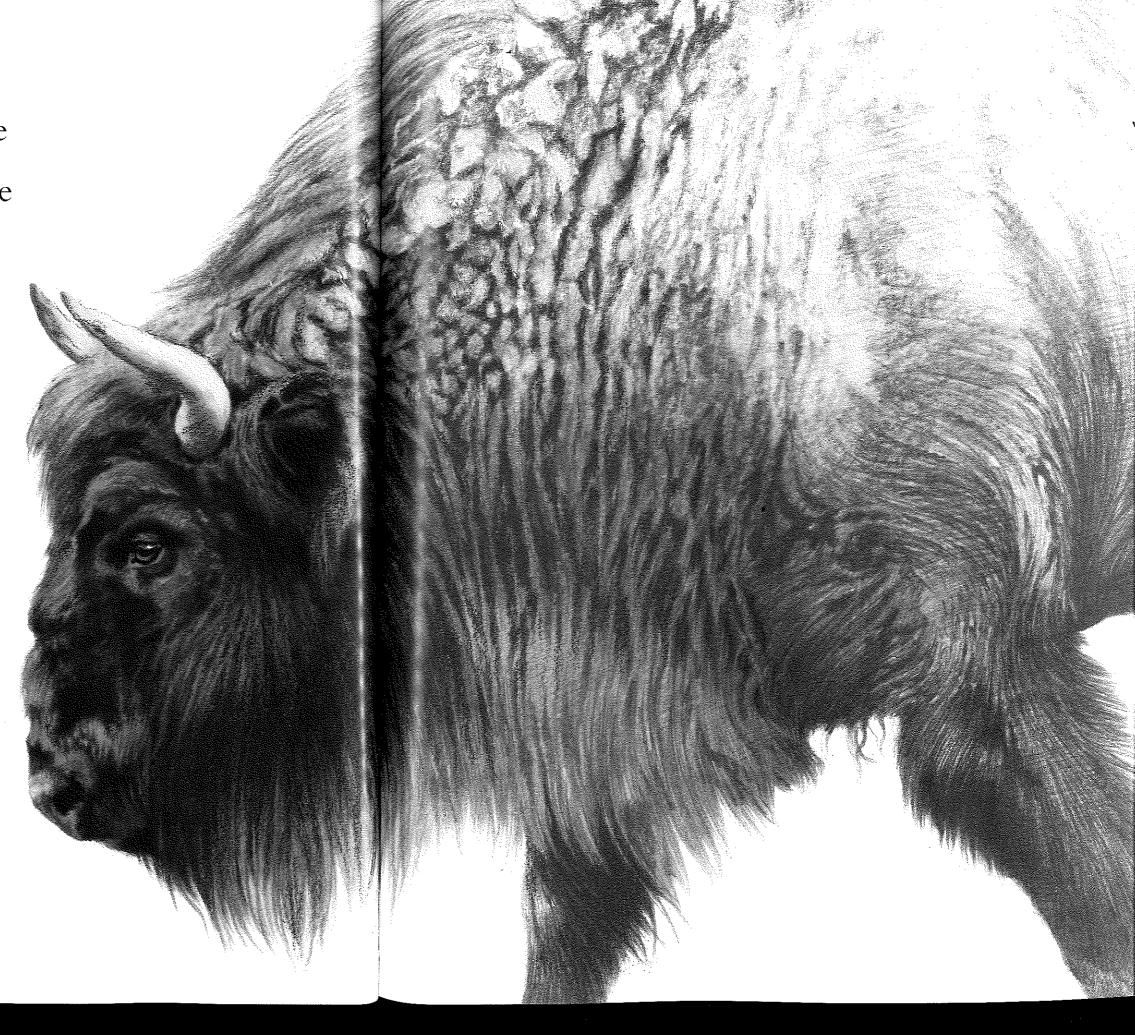


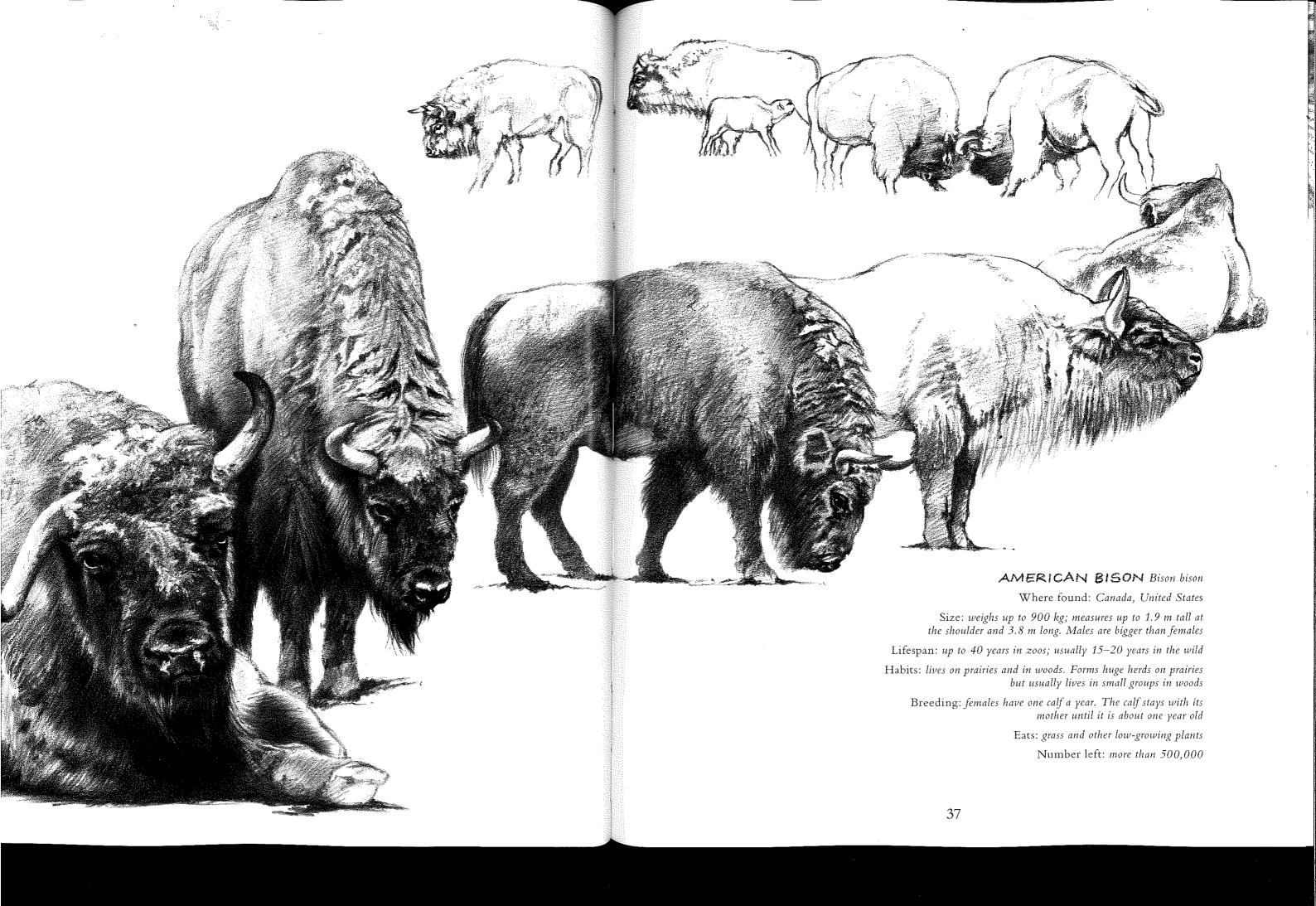
Sometimes, though, we have managed to do the right thing in time.

There are quite a lot of species that have nearly gone extinct and that we have saved, at least for the time being.

One of these is the American Bison...

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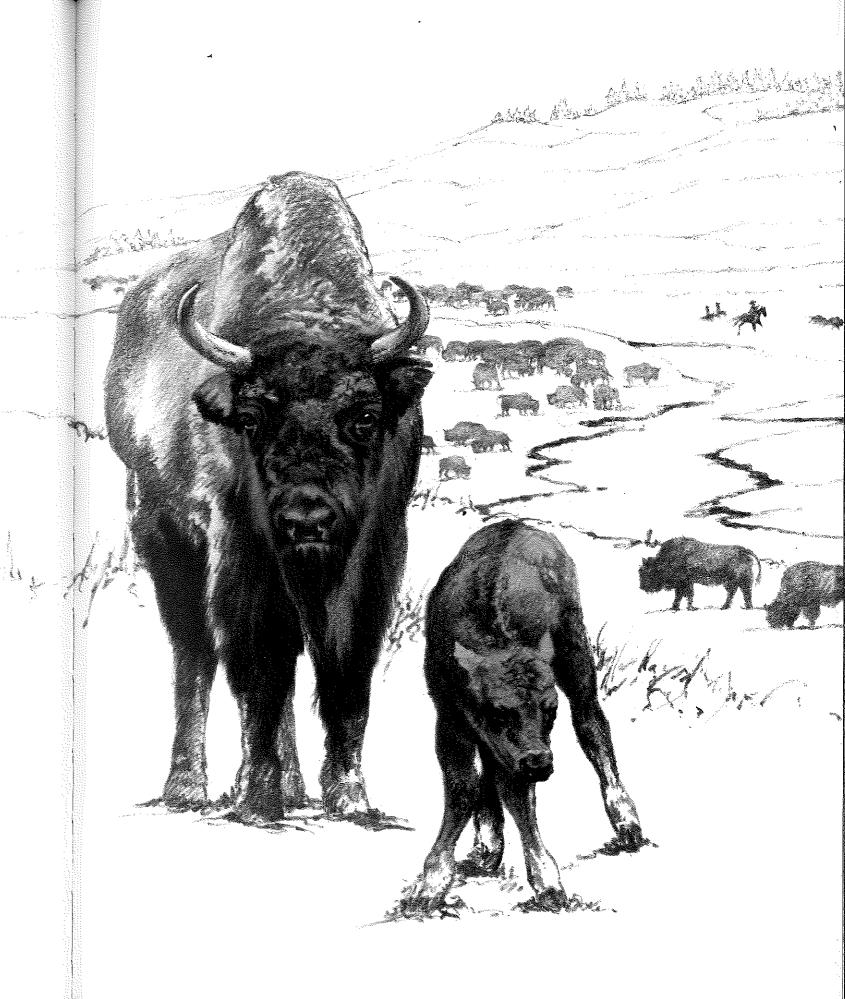


The American bison is the biggest land animal in North America. A few hundred years ago there were millions of them roaming the prairies and woodlands. Native people hunted them for their meat and skins, but they didn't kill too many, so there were always plenty around.

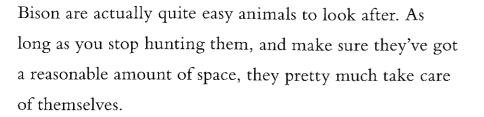
Then Europeans arrived with their horses and guns, and things began to change. They killed huge numbers of bison for their skins, they ploughed up parts of the prairies to plant wheat, and they turned the rest into ranches where they could graze cattle. All this left less and less room for the bison. Suddenly there were just two small herds of wild bison left, and a few kept in pens by ranchers. The bison was in danger of becoming extinct, without anyone really noticing.

Luckily, people did begin to take notice. And at the last minute they started to do things.

The ranchers who kept the captive bison started breeding from them, and governments set up reserves to protect the wild herds. Bison numbers began to grow. Now there are hundreds of thousands again. Most of them are still kept by ranchers, who treat them rather like cattle, but there are also some proper wild herds. There are still nowhere near as many as there once were, but there are enough for us not to have to worry about them.







Not all endangered species are like that. Some you can't take your eye off for a minute.

The kakapo is one of these.

Kakapos are amazing birds that live in New Zealand – huge dumpy parrots that can't fly and that only come out at night.

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They live as long as people do, they're fussy about what they eat (like a lot of people), and they usually only breed once every three or four years, when their favourite trees produce a bumper crop of fruit or seeds.



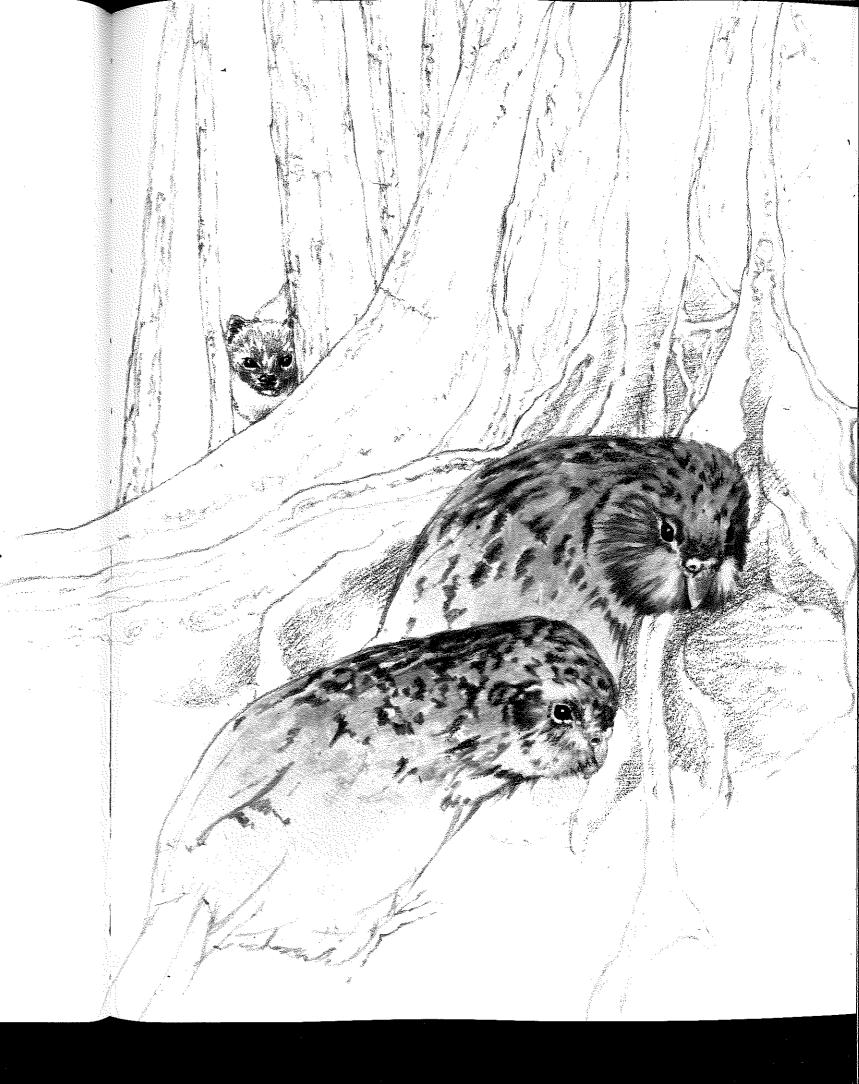


The trouble is that because kakapos can't fly, they are easy prey for animals like rats, dogs, cats and stoats that like to eat them or their eggs. Before people arrived on New Zealand, there were none of these predators there and lots of kakapos. Then, about 1,500 years ago, people started coming, bringing these animals with them, some by accident (like rats) and some on purpose (like dogs and, later, cats and stoats). The kakapos got rarer and rarer. At one point, people thought they might be extinct. Then a handful were discovered in the far south. But there were cats and stoats there too and every year there were fewer kakapos.

Conservationists decided to catch as many of the survivors as possible and put them on small islands, out of reach of predators. That worked, but unfortunately the kakapos hardly ever bred. More were dying, of old age and in accidents, than were hatching out.

By 1995 there were just 51 alive in the world.

Since then people have redoubled their efforts to try to save the kakapo. They guard the islands to make sure no predators arrive. They've put collars with radio transmitters on the kakapos to keep track of them. They've given them extra food to try to persuade them to breed, and when they do breed they keep an eye on the nest using remote-controlled cameras. They've even put heaters over the nests to make sure the eggs or chicks don't get too cold when their mother is off feeding at night. It's all working, and very, very slowly the number of kakapos is growing. By 2010 there were over 120 kakapos – still hardly any, but more than 51.





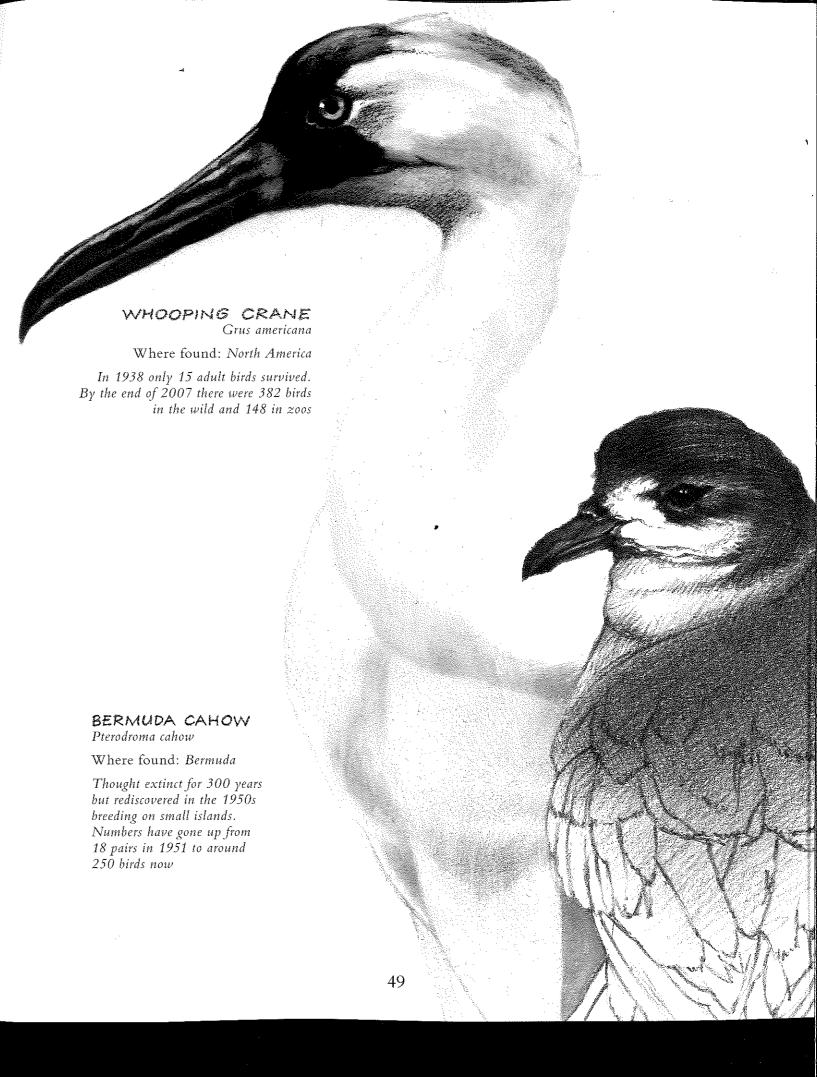
These are some of the animals that have been brought back from the brink of extinction but are still very rare.

RODRIGUES FLYING FOX

Pteropus rodricensis

Where found: Rodrigues Island in the Indian Ocean

In 1979, only about 70 survived.
The population reached 5,000 in 2002 but went down to 4,000 or so when a cyclone hit Rodrígues in 2003

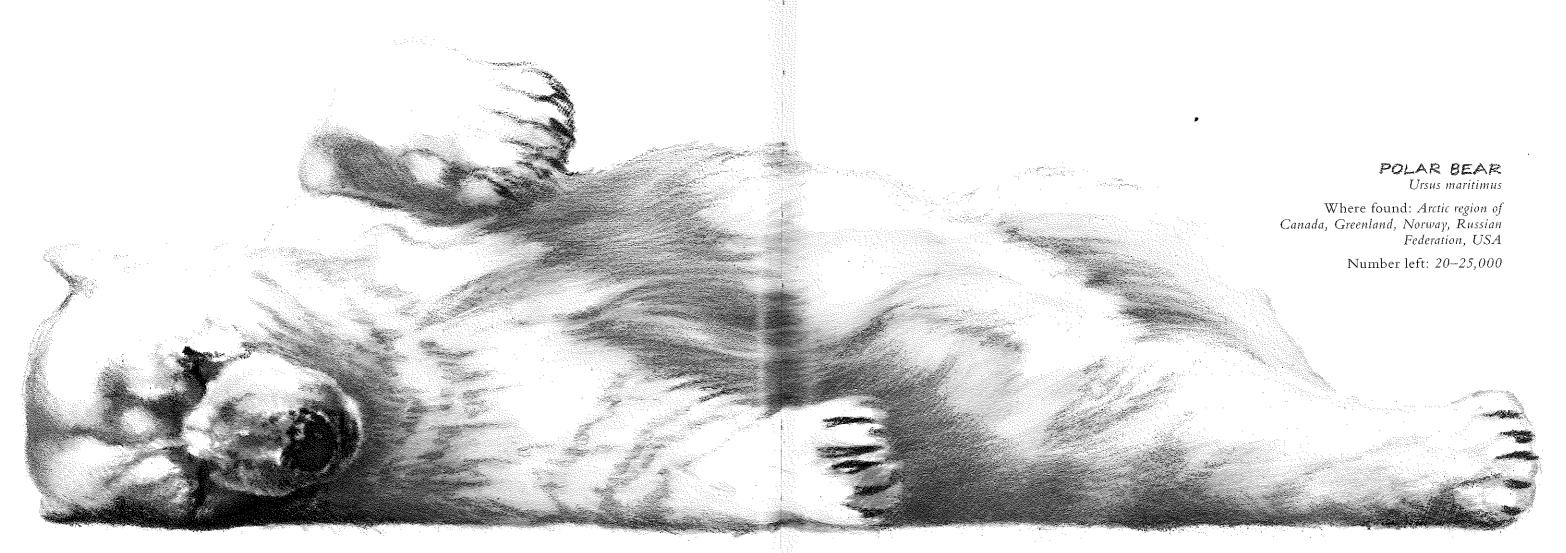


So you see, trying to save just one endangered species like the kakapo can be hard work, and there are thousands of them altogether. What's more, saving species is going to get more complicated. We haven't just changed the world in obvious ways, like cutting down forests and building roads, we're changing the climate too. And that affects everything, everywhere.

Because of climate change, places like the Arctic that haven't been affected very much by people up till now are starting to change fast, and that means that some animals that we thought were safe – like $polar\ bears$ – will probably soon be in trouble.

When it comes to looking after all the species that are already endangered, there's such a lot to do that sometimes it might all seem to be too much, especially when there are so many other important things to worry about. But if we stop trying, the chances are that pretty soon we'll end up with a world where there are no tigers or elephants, or sawfishes or whooping cranes, or albatrosses or ground iguanas. Or ... I could go on and on.

And I think that would be a shame, don't you?



Find out more online

Scientists and conservationists have made a list of about 17,000 animals and plants that they think are in danger. The list includes one in five of all the world's mammals and nearly one in three of all amphibians.

You can find the list, together with extra information about where the species live and why they are endangered, on the website **www.iucnredlist.org**.

The website **www.arkive.org** also has information on a lot of endangered species, including pictures and some great video clips.

Organizations around the world are working to protect endangered species. They all have websites that tell you what they're up to.

Here are some of them:

BirdLife International: www.birdlife.org

Conservation International: www.conservation.org

Durrell Wildlife Conservation Trust: www.durrell.org

Fauna and Flora International: www.fauna-flora.org

International Union for Conservation of Nature (IUCN): www.iucn.org

Nature Conservancy: www.nature.org
Wildlife Conservation Society: www.wcs.org

World Wildlife Fund: www.wwf.org

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About the creators of this book

Martin Jenkins and Vicky White are both passionate about conservation.

Martin's first ever job was to help write the IUCN Red Data Book of Threatened Mammals. As well as writing books, he is a consultant for the World Conservation Monitoring Centre, working on finding ways to help people conserve wildlife. He's travelled to many parts of the world, like Borneo, Kenya and Madagascar, doing this.

Vicky loves animals and was a zookeeper for six years. She's travelled in India and Africa, drawing and painting animals in the wild. "Coming face to face with a sloth bear or wandering through a troupe of gelada" baboons are moments I live for," she says.

Can We Save the Tiger? is the second book Martin and Vicky have made together.
Their first was Ape.



Where found: Sarawak, northwestern Borneo

Discovered in 1885; thought extinct until rediscovered in 1978. Still very rare, but protected in a national park

