For those who come after.



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AUSTRALIA'S WILD WONDER

TIM WINTON Illustrated by CINDY LANE





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In the north of Western Australia, where the desert meets the sea, lies one of the last great wild regions on earth.

The First Peoples of the region call it Nyinggulu.

The rest of the world knows it as **NINGALOO.**

NINGALOO NYINGGULU

Ningaloo is made up of three interconnected ecosystems: Ningaloo Reef, the Cape Range and Exmouth Gulf. Like the three toes of an emu's foot, they support and rely on each other to maintain balance and strength for the whole environment. The region's Traditional Custodians are the Baiyungu, West Thalanji, and Yinigurtura peoples.

Ningaloo is where the hot tropical zone of northern Australia meets the milder temperate zone of the south. These different weather patterns intersect and overlap, which has helped produce the remarkable diversity of plants and animals that live here.



LEEUWIN AND NINGALOO CURRENTS

The tropical Leeuwin Current runs south along the WA coast until it meets the colder, nutrient-rich inshore flow of the Ningaloo Current. In deeper waters, the eddy created by this collision of currents is where whale sharks gather to feed on plankton.

Leeuwin Current

Ningaloo Current

NINGALOO REEF

NORTH WEST CAPE

CAPE RANGE

MUIRON ISLANDS

SUNDAY ISLAND

NINGALOO REEF

TURQUOISE BAY

EXMOUTH

EXMOUTH GULF

YARDIE CREEK

NINGALOO REEF

CORAL BAY

GNARALOO

RED BLUFF

LAKE MACLEOD

Ningaloo is called a desert maritime environment because arid land is so close to the ocean.

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NINGALOO REEF

This is the longest fringing coral reef in the world. In many places it is so close to shore that you can swim to it from the beach. In a single day, you can see more species of megafauna here than nearly anywhere else on planet Earth.

Although it's only a fraction the size of its more famous cousin, the Great Barrier Reef, its biodiversity is astounding. It supports 300 species of coral, over 700 kinds of fish, 650 types of molluscs and 600 kinds of crustaceans. But it's best known for its large animals, like whale sharks, manta rays, turtles and humpback whales.



DID YOU KNOW?

DEEP OCEAN

A fringing reef grows close to the land while a barrier reef forms further offshore. Ningaloo Reef is 260 km long, and stretches from the Muiron Islands in the north to Red Bluff in the south.

DID YOU KNOW?

In 2011, Ningaloo Reef was added to the World Heritage List.

DID YOU KNOW?

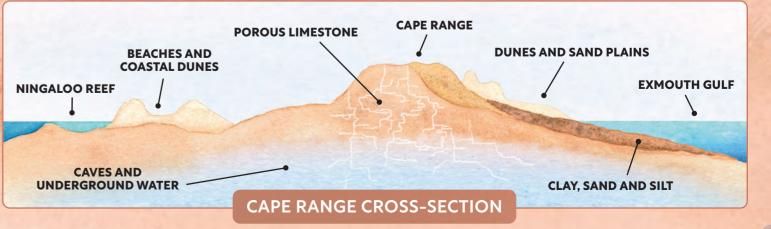
The range was also given World Heritage listing in 2011.

CAPE RANGE

The steep, fractured limestone formations of the Cape Range were once seabed. Millions of years ago two continental plates collided. This created uplift, so part of the sea became land.

The most distinctive terrestrial feature of Ningaloo is the large peninsula that extends north from the vast salt ponds of Lake MacLeod and sits between the Indian Ocean and Exmouth Gulf. The Cape Range runs along the northernmost spine of the peninsula.

All of the canyons, gorges and creek beds in the area were formed by massive rain events. This landscape looks harsh and dry, but it hides a secret underground world of caves and waterways.



The rugged environment we see today supports 630 plant species, over 80 reptiles, 200 kinds of birds and over 40 species of mammals – some of which are only found in Ningaloo and nowhere else on the planet.

DID YOU KNOW?

Although it was meant to be included in the Ningaloo World Heritage Area in 2011, the Gulf was left unprotected.

As well as critical seagrass and sponge communities, the Gulf has special corals called 'turbid corals' that can survive temperatures that would kill other kinds of coral. It supports nearly twice as many fish species as Ningaloo Reef, and has very high levels of abundance and biodiversity.

EXMOUTH GULF

Because it's the nursery for so many endangered and vulnerable species, like dugongs, sawfish, sea snakes and shorebirds, Exmouth Gulf is globally significant.

The Gulf is one of the world's most important refuges for humpback whales. Here they give birth, nurse their calves and rest after their arduous winter migration from Antarctica.

Exmouth Gulf is a large arid-zone estuary, one of the few that hasn't been degraded by industrial development. It is enormous and extends over 2,600 km² with vast, pristine mangrove forests and wetlands so big they're visible from space.

COMMUNITIES

0

MUIRON

The Ningaloo coast is composed of individual and overlapping habitats or 'communities' – from easily visible marine-based homes to mysterious worlds hidden deep beneath the rocks and gorges.

EXMOUTH GULF

NINGALOO REEF

CAPE RANGE

COMMUNITIES KEY

CORAL REEF

This coral reef is a fringing reef that lies close to the shore, following the coastline.

NINGALOO REEF

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MANGROVES

The intertidal area is where the

INTERTIDAL

sea and the land connect and

overlap.

Mangrove trees are specially adapted to salt water.

SEAGRASS

habitat and food sources for Seagrass meadows provide many marine creatures, including fish and dugongs.

FOSSIL REEF

The Cape Range area was once an underwater coral reef.

KARST

Over time, rainwater dissolved the limestone rocks to create deep caverns and hollows.

AKE MACLEOD

Lake MacLeod has the largest inland mangrove community in the world. DID YOU KNOW?

A coral reef looks like one big solid structure, but really it's a community made up of millions of tiny, soft animals called polyps that produce the hard surfaces we call corals.

BOTTLENOSE DOLPHIN

> WHITE-SPOTTED EAGLE RAY

JUVENILE GOLDEN TREVALLY

> POTATO ROCKCOD

As the polyps feed and grow, each creature forms a hard crust, which becomes the coral you see on the reef. CORAL GROUPER

CORAL REEF COMMUNITY

A healthy coral reef is a rich, colourful world. It provides homes, nurseries and food for many animals – from the tiniest seahorses to enormous rays and sharks.

WOBBEGONG

The high wall at the sea's edge is called the reef front. This is where ocean waves crash, bringing oxygen and nutrients from the deep ocean.

DID YOU KNOW?

The polyps that build the reef need clear water that's not too warm. When the water grows cloudy and the sea temperature increases (as a result of climate change), polyps starve and corals begin to bleach. If conditions don't improve, coral reefs die and many of the creatures that live there disappear.





ROUND BATFISH

CORAL TROUT

GREEN TURTLE

SQUID

Mangrove trees are called 'extremophiles' because they can survive in extreme conditions like Ningaloo's hot and salty environment.

Behind the mangroves, there are massive blueblack patches that grow like a skin over the brown mud. These are called cyanobacterial mats. They are among the oldest life forms on the planet. Like the leaves of a tree, they turn sunlight into oxygen - but only when they're wet.

SACRED KINGFISHER

MUD CRAB

FIDDLER CRAB

ANGROVE SEA SNAKE

Below the waterline, the tree trunks and roots give shelter to fish, sharks, rays, crabs and prawns. Above the waterline, tree limbs and leaves provide habitats for birds.

Along the shoreline of the mangroves are tidal flats. These big stretches of mud are rich with crustaceans and burrowing fish. At low tide, they become a feast for sea snakes and shorebirds.

FAR EASTERN CURLEW

BRAHMINY KITE

MANGROVE COMMUNITY **LOW TIDE**

Mangroves are trees that live at the sea's edge. But the mangrove environment is about more than just trees; all around them lies a vast wetland of tidal flats.

Mangrove communities are important as 'carbon sinks'. They take carbon dioxide from the air and fix it in these muddy sediments. When wetland forests are disturbed or removed, they release carbon into the atmosphere, which contributes to global warming.

Above the mangrove canopy, bats snack on the clouds of insects that gather at dusk.

Thousands of rays and sharks swim up over the flats, through the mangroves, and out beyond to feed on country where, hours before, there was no water. At its highest tide, the gulf doubles in size.

JUVENILE MANGROVE JACK

MARK

GREEN SAWFISH

DID YOU KNOW?

Mangrove forests provide a buffer between the ocean and the land, protecting it from storm surges.

MANGROVE COMMUNITY HIGH TIDE

At high tide, mangrove wetlands flood with water – and with animals looking for a feed. When the tide goes out again, all the nutrients on the land flush back out to feed the gulf.

SHOVELNOSE RAY