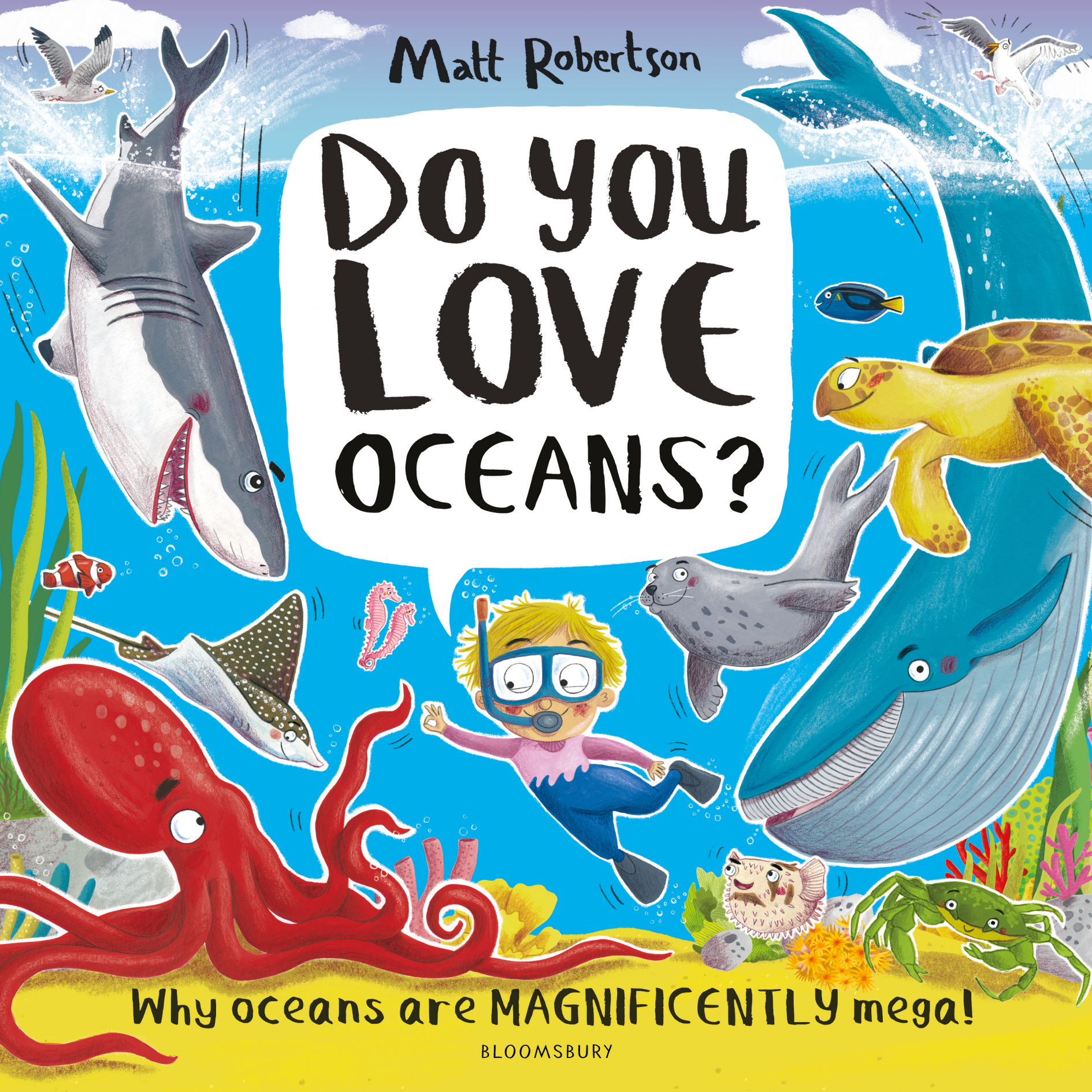
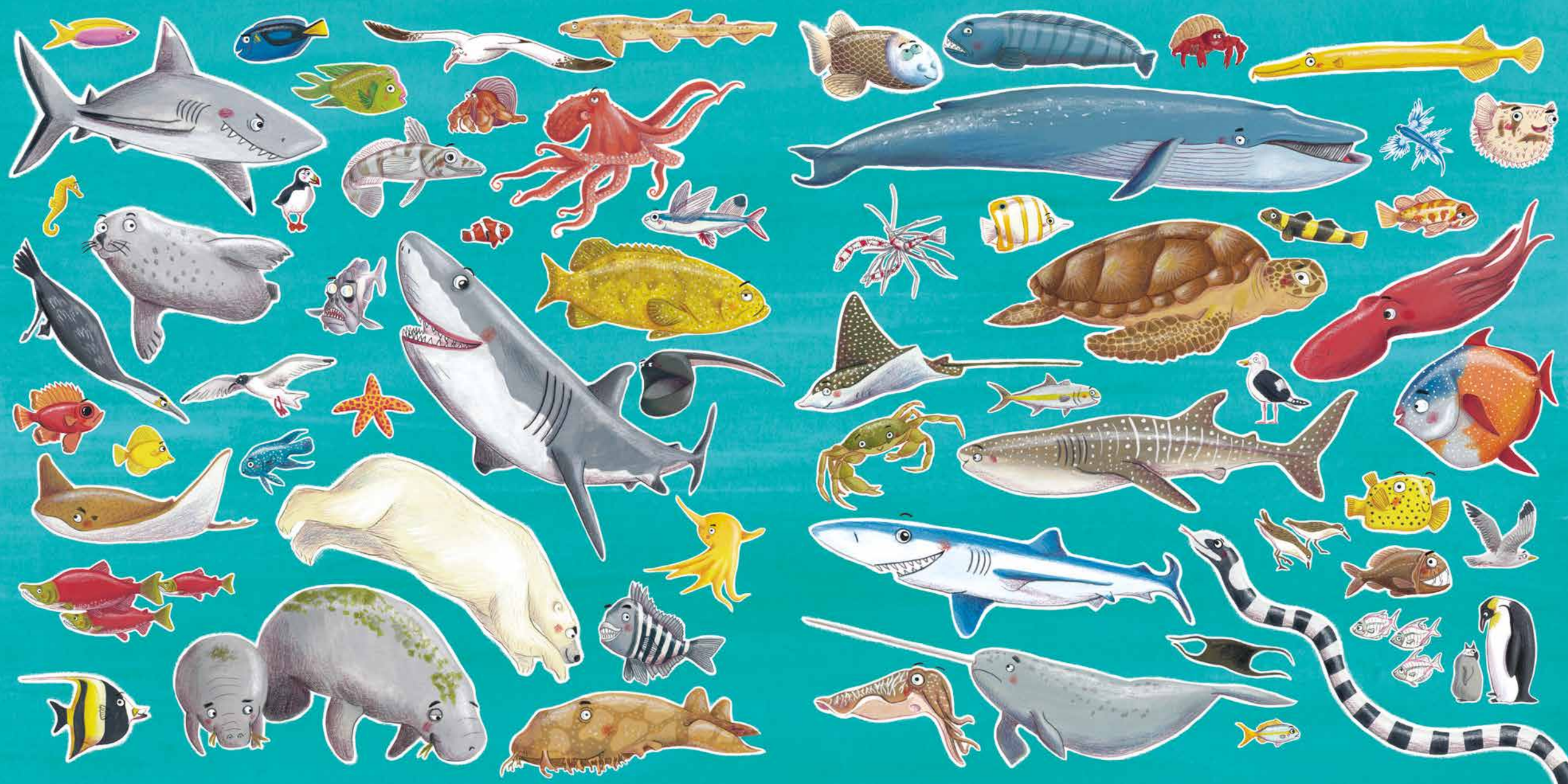

Matt Robertson
DO YOU LOVE OCEANS?
Why oceans are MAGNIFICENTLY mega!
BLOOMSBURY







For Bode and Remi.

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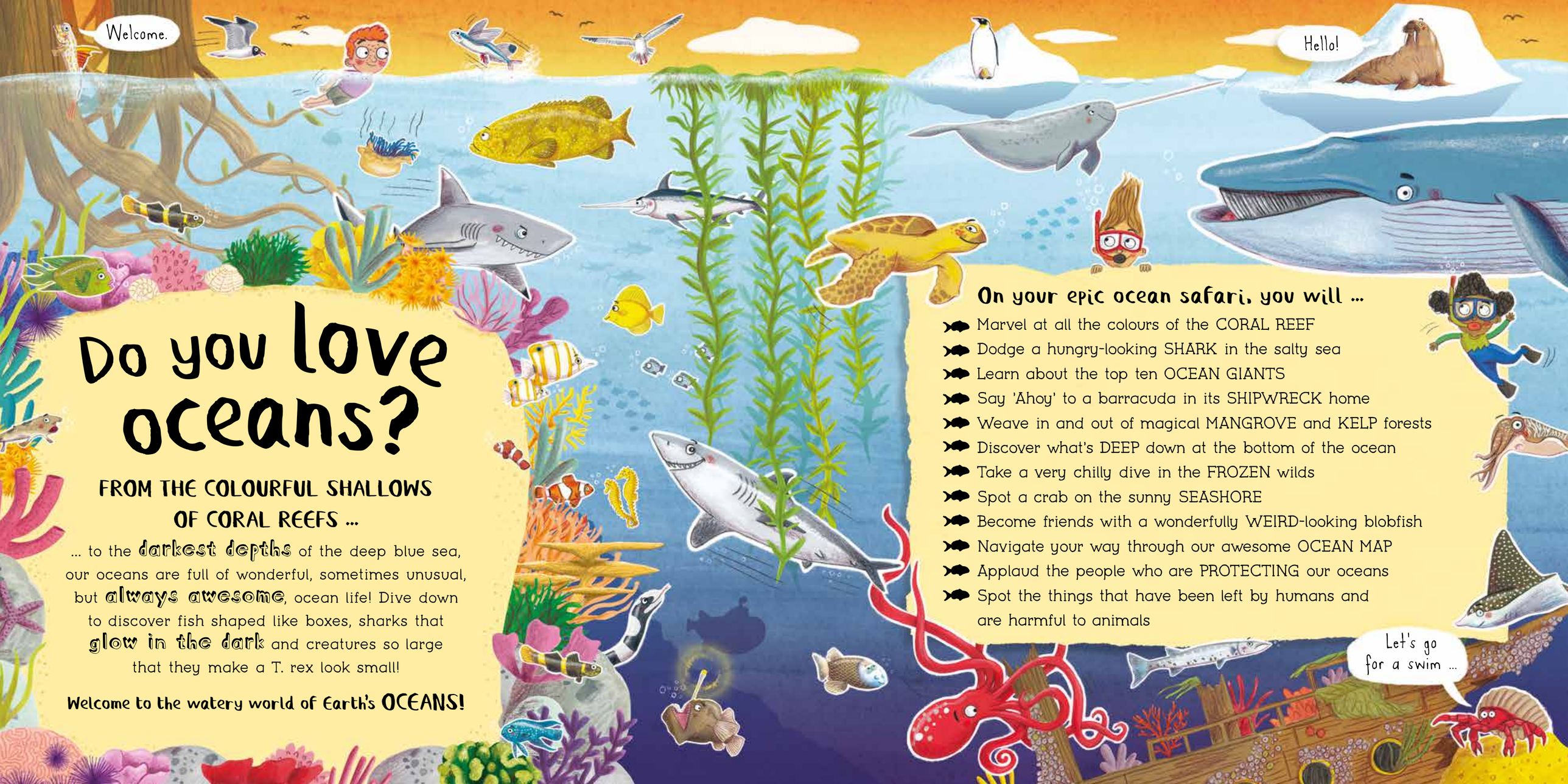
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Do you LOVE OCEANS?



Matt Robertson

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Do you love oceans?

FROM THE COLOURFUL SHALLOWS OF CORAL REEFS ...

... to the **darkest depths** of the deep blue sea, our oceans are full of wonderful, sometimes unusual, but **always awesome**, ocean life! Dive down to discover fish shaped like boxes, sharks that **glow in the dark** and creatures so large that they make a T. rex look small!

Welcome to the watery world of Earth's OCEANS!

On your epic ocean safari, you will ...

- Marvel at all the colours of the CORAL REEF
- Dodge a hungry-looking SHARK in the salty sea
- Learn about the top ten OCEAN GIANTS
- Say 'Ahoy' to a barracuda in its SHIPWRECK home
- Weave in and out of magical MANGROVE and KELP forests
- Discover what's DEEP down at the bottom of the ocean
- Take a very chilly dive in the FROZEN wilds
- Spot a crab on the sunny SEASHORE
- Become friends with a wonderfully WEIRD-looking blobfish
- Navigate your way through our awesome OCEAN MAP
- Applaud the people who are PROTECTING our oceans
- Spot the things that have been left by humans and are harmful to animals

Coral reefs

WHO LIVES IN A PLACE LIKE THIS?

Coral reefs are **super important** to the survival of marine animals. A quarter of all sea life live in these **reefs**. They may look like a mixture of plants and rocks, but they're made up of thousands of **tiny** animals called **polyps**, which attach themselves to rocks. Lots of other **strange-looking** colourful creatures make up these beautiful habitats too.

So ... get ready for a rainbow journey!

Parrotfish

Great barracuda

Butterfly fish

Yellow tang

Coral reefs are spongy places ...

Red tree sponge

Yellow tube sponge

Moorish idol

Blue tang

Smart!

Trumpetfish

GREY REEF SHARK

This shark can swim up to 48 km/h. That's as fast as a car. SPEEDY!

SPOT THE CORAL

See if you can spot all these different kinds of coral on the reef.

Brain

Table

Cauliflower

Lettuce

Bubble

Sun

Sea Whip

Gorgonian

LIONFISH

Lionfish spines are venomous and would give you a nasty sting – OUCH!

SEAHORSE

These little fish prefer to swim in pairs.

MANTA RAYS

Manta rays have the largest brain to body weight ratio of any living fish.

SEA ANEMONE

Sea anemones protect fish from predators and, in turn, clownfish clean them of nasty parasites.

SEA STAR

Sea stars have no brain or blood.

PORCUPINE PUFFERFISH

Pufferfish are poor swimmers so to defend themselves, they puff right up.

THANK YOU REEFS

Not only do reefs clean the water around them but they also form a barrier from storms which protect the coastline.

CLOWNFISH

These fish live among poisonous sea anemones.

BARTLETT'S ANTHIAS

These bass are born female but can change later to become male.

SEA SNAKE

The only reptile that's born in the sea.

CAMOUFLAGE

Stonefish are excellent at blending in with their surroundings.

We care about coral!

Blue glaucus (blue dragon)

Sharks

CHECK OUT THOSE FANTASTIC FINS!

Sharks have been around for more than 455 million years, long before the first dinosaurs appeared! They come in many **shapes** and **sizes**, from the tiny **dwarf lantern shark** to the ginormous **whale shark**, and are found all over the world. These fascinating **fish** are truly magnificent animals.

Let's take a closer look at sharks!

The common thresher shark stuns its prey by whipping it with its large tail!

DWARF LANTERN SHARK

This shark is the smallest shark in the world.

I can grow up to 20 cm long.

COLD-BLOODED

Unlike humans, most sharks are cold-blooded. This means that their body heat is the same as the water, which is why most sharks live in warmer oceans.

There are more than 500 species of shark.

Blue shark

Tiger shark

Nurse shark

MEGA SHARK

The megalodon, which went extinct millions of years ago, was a MASSIVE shark!

Its nose can smell prey from 3 km away.

I'm GREAT!

Sharks lose teeth when they bite into their prey and can go through 20,000 teeth in their lifetime.

DINNER MENU

Fish, rays, sea lions, seals, small whales, dolphins, turtles.

Spiny dogfish

BONELESS

Sharks have no bones. Instead, their skeletons are made of cartilage – like your nose!

TASSELLED WOBBEGONG

A species of carpet shark that lives in shallow coral reefs.

SHORTFIN MAKO SHARK

They are the fastest sharks in the world.

People like taking photos of me.

Blacktip reef shark

GREAT WHITE SHARK

These sharks can grow up to half the length of a bus. They are partly warm-blooded so they can move fast in cold waters.

They leap out of the water like a whale.

Powerful tail that propels them through water at over 64 km/h

Sharks are spectacular!

Whitetip reef shark

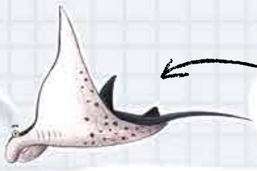
Ocean giants

WOAH! WHAT'S THAT COLOSSAL CREATURE?!

Ocean giants are even **bigger** than **dinosaurs**! In fact, the blue whale is the largest creature ever known to have lived. But there are many other **mega** creatures lurking beneath the waves. From the super brainy **giant oceanic manta ray** to the mysterious **giant squid**, there's plenty to discover in the deep blue sea ...

Let's take a look at the top ten ocean giants!

My brain is the biggest!



GIANT OCEANIC MANTA RAY
7 metres (m)



GREAT WHITE SHARK
7 m



OARFISH
8 m



1 elephant = average length 4 m



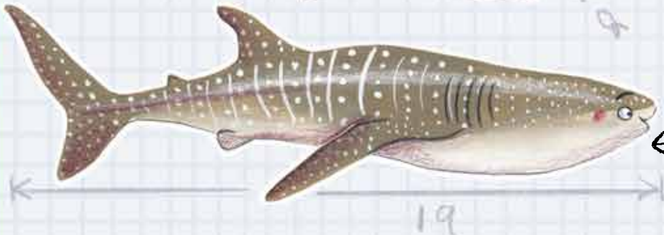
GIANT PACIFIC OCTOPUS
9 m



GIANT SQUID
12 m



BASKING SHARK
12 m

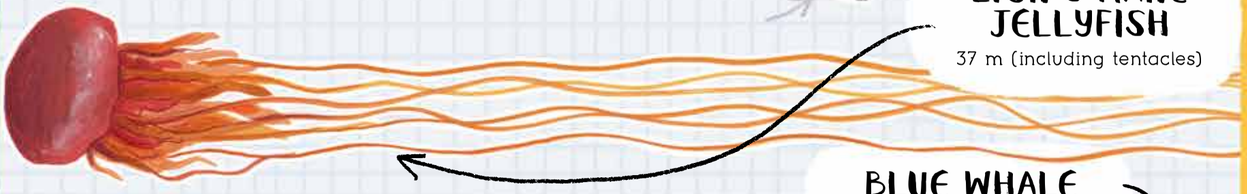


WHALE SHARK
19 m

SPERM WHALE
24 m



LION'S MANE JELLYFISH
37 m (including tentacles)



BLUE WHALE
33 m



Ocean creatures are COOL!