

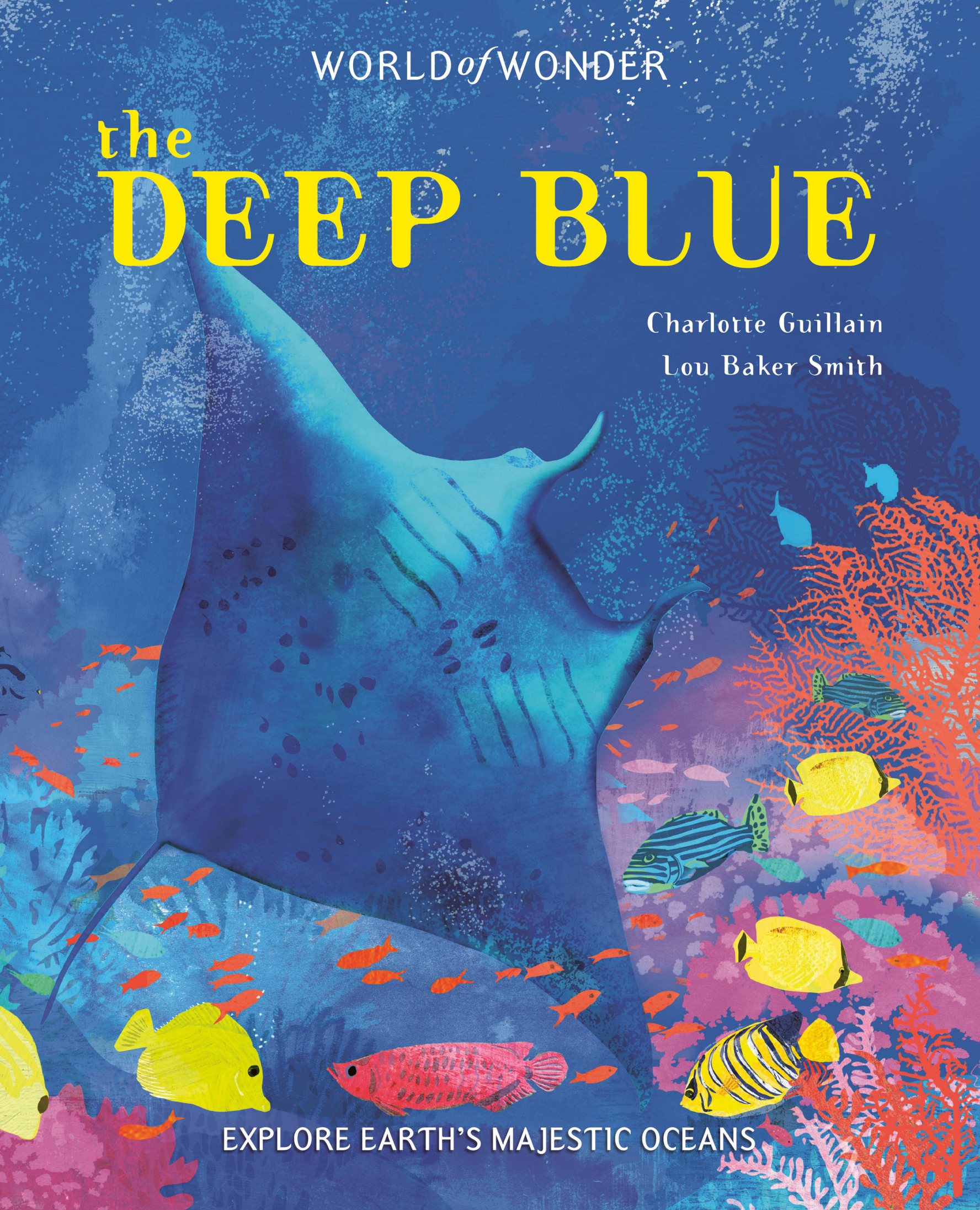
WORLD *of* WONDER

the DEEP BLUE

Charlotte Guillain

Lou Baker Smith

EXPLORE EARTH'S MAJESTIC OCEANS



WORLD *of* WONDER

the
DEEP BLUE



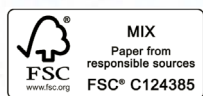
Charlotte Guillain

Lou Baker Smith



For Rachel - C.G.

For my family. You are my sun, my
moon, my ocean and all of my stars. - L.B.S.



Quarto is the authority on a wide range of topics.

Quarto educates, entertains and enriches the lives of
our readers—enthusiasts and lovers of hands-on living.

www.quartoknows.com

Consultant: Michael Bright

Art Director: Susi Martin

Editor: Harriet Stone

Creative Director: Malena Stojic

Publisher: Rhiannon Findlay

© 2020 Quarto Publishing plc

Text © 2020 Charlotte Guillain

Illustration © 2020 Lou Baker Smith

Charlotte Guillain has asserted her right to be identified as the author of this work.
Lou Baker Smith has asserted her right to be identified as the illustrator of this work.

This edition first published in 2020 by words & pictures,
an imprint of The Quarto Group.

The Old Brewery, 6 Blundell Street,
London N7 9BH, United Kingdom.

T (0)20 7700 6700 F (0)20 7700 8066

www.QuartoKnows.com

No part of this publication may be reproduced, stored in a retrieval system, or
transmitted in any form, or by any means, electrical, mechanical, photocopying,
recording or otherwise, without the prior written permission of the publisher or a licence
permitting restricted copying. In the United Kingdom such licences are issued by the
Copyright Licensing Agency, Barnards Inn, 86 Fetter Lane, London EC4A 1EN.

All rights reserved.

A catalogue record for this book is available from the British Library.

ISBN 978 0 7112 5005 5

eISBN 978 0 7112 5011 6

Manufactured in Guangdong, China TT072020

9 8 7 6 5 4 3 2 1





Contents

4

World of Water

6

The Pull of the Tide

8

Revealed in the Rocks

10

Crashing Waves

11

Where the River Meets the Sea

12

A Swirling Shoal

14

Underwater Forest

16

Army of Urchins

17

Forest Guardian

18

Trees in the Ocean

20

Graceful Grazers

22

A Marine Meadow

23

Turtle Grass

24

The Incredible Coral Polyp

26

A Teeming Reef

28

Blue Lagoon

30

Reef Guard

31

A Bleached Reef

32

The Open Ocean

34

Storm Swell

35

A Sea Swallow

36

A Bloom in the Ocean

38

Stinging Swarm

40

Plastic Ocean

42

The Deep Ocean

44

The Twilight Zone

46

The Midnight Zone

48

Deepwater Chimneys

50

Into the Abyss

52

Deep-sea Mountains

53

Extreme Eruption

54

The Frozen Ocean

56

Incredible Krill

58

The Unicorn of the Sea

59

Antifreeze Fish

60

Melting Sea Ice

62

Protecting Our Oceans

64

**Find Out More
& Index**

World of Water

Seen from space, Earth is a ball of blue. The oceans make up over 70 per cent of our planet's surface, from the vast Pacific to the smallest seas. The crashing waves, dark depths and still, turquoise waters of our oceans are all home to a multitude of life. Much of the ocean is yet to be discovered and explored by humans.

The world's oceans are one immense, connected body of water. Although there are five distinct oceans – the Pacific, Atlantic, Indian, Southern and Arctic – they are interlinked, with currents flowing through them all. These currents create our weather and bring life to the seas by carrying food and warmth around the globe. Some currents move only in the surface waters but others travel in the deepest reaches of the sea.

The Pacific is the largest and deepest ocean, bigger than all the continents and almost all the other oceans put together. Its name means 'peaceful' but the waters of the Pacific can rise up to swell and crash in terrifying storms.

Life on our planet depends on the oceans. More than half of the oxygen we need to live is produced by plants in our seas. This world of water is full of wonders but is also vital for all living things on Earth.

