

# Welcome

to UltraMarine



I remember hearing the phrase: 'we aren't keeping fish, we're keeping water' back in

my freshwater days. Whilst you can argue this assertion back and forth for days, the point is well made, that if you get the water right, so much else can follow, but get it wrong and well...we all know what will happen. So thanks to Tristan Lougher for his excellent series on getting started in the hobby and in this instalment, really digging deep into the world of that often baffling subject of water chemistry.

I also really enjoyed Richard Smith's piece on the fish life of the Lesser Sunda Islands, despite being a little jealous of his lifestyle, you can't help but be impressed by his photography and the fact that even though the world is fairly well explored these days, there are still fish left to be discovered which given the plight of the world's oceans is at the same time reassuring and concerning: think how awful it is that we are losing species so quickly and many might never be recognised. Scary stuff!

RICHARD

Research Information Ltd,  
Grenville Court, Britwell Road,  
Burnham SL1 8DF, England

Tel: 0845 003 9112

Website: [www.ultramarinemagazine.co.uk](http://www.ultramarinemagazine.co.uk)

>Editor: **Richard Aspinall**  
[editor@ultramarinemagazine.co.uk](mailto:editor@ultramarinemagazine.co.uk)

>Design: **Bob Yorke**  
[design@ultramarinemagazine.co.uk](mailto:design@ultramarinemagazine.co.uk)

>Advertising: **Kumar Patel**  
[advertise@ultramarinemagazine.co.uk](mailto:advertise@ultramarinemagazine.co.uk)

Whilst every care is taken to ensure accuracy of content, ULTRAMARINE publications will not be held responsible for any inaccuracies within supplied articles. All rights reserved. No part of ULTRAMARINE magazine may be reproduced, stored in a retrieval system, transmitted in any form, or by any means, electronic, mechanical, photocopying, recording or otherwise without prior written consent of the publishers; the above also applies to adverts designed by ULTRAMARINE.

VAT no: GB 639 8321 11



# Contents

Issue 52 June 2015

**04 Cover Story**  
UltraMarine.

**05 Editor News**  
UltraMarine.

**07 Marine News**  
UltraMarine.

**14 Q+ A**  
David Wolfenden answers your marine queries.

**22 A Piece of the Mangal**  
It's hard not to be fascinated by trees that can tolerate salt water. Kenneth Wingerter tells us more.

**30 The Goldilocks Zone**  
John Clipperton shares his thoughts on getting the heat just right in marine aquaria.

**36 My Own Piece of the Ocean**  
Keith Moyles shares his observations of his 450 litre system. Why not share your system with our readers?

**44 Getting Started: Part 4**  
Water Part 3 – Chemistry and Testing, with Tristan Lougher.

**54 Less is More in Indonesia's Lesser Sunda Islands**  
Dr. Richard Smith explores the wild paradise of Indonesia's Lesser Sunda Islands.

**67 The Cleaner Wrasses and Gobies**  
James Fatherree explores the fascinating world of the cleaners.

**74 Highlights of our Next Issue**  
UltraMarine.

**72 Fishes in Focus: Anampses Wrasses**  
John continues focusing on fishes, this time the Anampses genus.

Find us on Facebook

Follow us on Twitter  
[@ultramarinemag](https://twitter.com/ultramarinemag)