

# **International Symposium on Banda Sea Ecosystem (ISBSE 2017)**

IOP Conference Series: Earth and Environmental Science  
Volume 184

Jakarta, Indonesia  
23 October 2017

## **Editors:**

**Yosmina Tapilatu  
Augy Syahailatua**

**Zainal Arifin  
R. Dwi Susanto**

ISBN: 978-1-5108-7010-9  
ISSN: 1755-1307

**Printed from e-media with permission by:**

Curran Associates, Inc.  
57 Morehouse Lane  
Red Hook, NY 12571



**Some format issues inherent in the e-media version may also appear in this print version.**

Copyright© (2017) by the Institute of Physics  
All rights reserved. The material featured in this book is subject to  
IOP copyright protection, unless otherwise indicated.

Printed by Curran Associates, Inc. (2018)

For permission requests, please contact the Institute of Physics  
at the address below.

Institute of Physics  
Dirac House, Temple Back  
Bristol BS1 6BE UK

Phone: 44 1 17 929 7481  
Fax: 44 1 17 920 0979

[techtracking@iop.org](mailto:techtracking@iop.org)

**Additional copies of this publication are available from:**

Curran Associates, Inc.  
57 Morehouse Lane  
Red Hook, NY 12571 USA  
Phone: 845-758-0400  
Fax: 845-758-2633  
Email: [curran@proceedings.com](mailto:curran@proceedings.com)  
Web: [www.proceedings.com](http://www.proceedings.com)

# Table of contents

## Volume 184

**International Symposium on Banda Sea Ecosystem (ISBSE) 2017**

**23 October 2017, Balai Kartini Convention Center, Jakarta, Indonesia**

**Accepted papers received: 1 August 2018**

**Published online: 20 August 2018**

### **Preface**

[International Symposium on Banda Sea Ecosystem \(ISBSE\) 2017](#)

[Editorial and Scientific Committee](#)

[ISBSE 2017 in Pictures](#)

[Peer review statement](#)

### **Papers**

#### **Review Papers**

[Banda deep-sea research: history, mission and strategic plan](#)

Suyadi, W N Satrioajie, A Syahailatua and Z Arifin.....1

[A review of studies on bacteria in the Banda Sea over the past seven decades \(1950-2017\)](#)

Y Tapilatu.....14

[The Banda Sea: a hotspot of deep-sea echinoderms diversity in Indonesia](#)

A Setyastuti and I Wirawati.....21

[The importance of the Banda Sea for tuna conservation area: A review of studies on the biology and the ecology of tuna](#)

W N Satrioajie, Suyadi, A Syahailatua and S Wouthuyzen.....30

[Geological aspects of Banda Sea ecosystems and how they shape the oceanographical profile](#)

J M Pownall, R Hall, G S Lister and A Trihatmojo.....41

[A hard way towards sustainable management of Banda Sea ecosystems and their energy resources](#)

S Susilohadi.....50

[Current Status and Future Prospect of Marine Pollution Research in the Banda Sea](#)

C Y Manullang.....58

**Original Research Papers**

[Fish larval composition and distribution assessment in the northern waters of Ambon Island](#)

Y Tapilatu, A H Sabandar, V Salawane and A Syahailatua.....67

[Reef fish stocks assessment around the islands in the Banda Sea for supporting local community livelihood](#)

S Wouthuyzen, F D Hukom, P Makatipu and D Pelasula.....75

[Assessment of tunicates found in the northern waters of Ambon Island and its rearing requirements in a laboratory setting](#)

Y Tapilatu and T Ginzel.....96

Physical properties and nutrients distribution of seawater in the Banda Sea - Indonesia

M L Firdaus.....103

Possible impact of El Niño and La Niña on water mass circulation in Ambon Bay

F R T Saputra, M R Putri and W J Tattipata.....110