

2nd International Seminar on Ocean Sciences and Sustainability (ISOSS 2024)

BIO Web of Conferences Volume 168 (2025)

Bogor, Indonesia
5 July 2024

ISBN: 979-8-3313-1630-3

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.

This work is licensed under a Creative Commons Attribution 4.0 International License. License details:
<http://creativecommons.org/licenses/by/4.0/>.

No changes have been made to the content of these proceedings. There may be changes to pagination and minor adjustments for aesthetics.

Printed with permission by Curran Associates, Inc. (2026)

For additional information, please contact EDP Sciences – Web of Conferences at the address below.

EDP Sciences – Web of Conferences
17, Avenue du Hoggar
Parc d'Activité de Courtabœuf
BP 112
F-91944 Les Ulis Cedex A
France

Phone: +33 (0) 1 69 18 75 75
Fax: +33 (0) 1 69 28 84 91

contact-edps@webofconferences.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
Web: www.proceedings.com

TABLE OF CONTENTS

Biosorption of Copper by <i>Alcaligenes Faecalis</i> and <i>Delftia Tsuruhatensis</i> Isolated from Wastewater.....	1
<i>Yumna Husna Nisaa, Anto Budihardjo, Sri Pujiyanto</i>	
Coral Reef Health Index on Tunda Island, Banten, Indonesia.....	9
<i>M. Rakha Ubaidillah Faqih, Idris, Mauludiyah, Fakhurrozi, Dian Sari Maisaroh, Marita Ika Joesidawati</i>	
Coral Growth Rate in Branching and Massive Coral in Sangiang Nature Tourism Park, Indonesia.....	21
<i>Idris, Fakhurrozi, Muhammad Erwin, Mauludiyah, Misbakhul Munir</i>	
Biodiversity of Coral Reefs Ecosystem at Tunda Island, Banten, Indonesia.....	34
<i>Fakhurrozi Fakhurrozi, Idris Idris, Hafidz Permana Sereni, Mauludiyah, Sutan Mukh Zakyrudin Ma'Ruf, Ruly Isfatul Khasanah, Wiga Alif Violando, Misbakhul Munir</i>	
Oceanic Index Variability and Its Role in Mangrove Dieback Events in East Lampung	45
<i>Rizki Dimas Permana, Febri Dwi Irawati, Mohammad Ashari Dwiputera, Dea Annisa, Angger Firmanto</i>	
Assesing Ecological Condition and Diversity of Mangrove and Seagrass in Kepala Madan, South Buru, Maluku.....	56
<i>Julia Intan Stevhani Br Siahaan, Fery Kurniawan, Reza Miftahul Ulum, Rizkia Damayanti Putri, Aron Azis Meliala</i>	
Distribution and Characteristics of Internal Waves Observed During the Expedition of Jalacitra 3-2023 “FLORES”.....	68
<i>I W. Sumardana E. Putra, Agus S. Atmadipoera, Henry M. Manik, Gentio Harsono, Adi Purwandana, Budi Purwanto</i>	
Diversity and Community Structure of Seagrass Ecosystem at Menjangan Island, West Bali National Park.....	85
<i>Alfaiz Arselan, Radixa Radhya Ramadhan Haryanto, Kesha Mufthiy Java Tanaya, Revita Ramadhani Fitri, Laura Natalya Elia Sianturi, Raihana Yasmin Azzahra, Caesar Aditya Wirayudha Putra, Dwiky Harris Abimanyu, Adriani Sunuddin</i>	
Phylogenetic Structure of Tuna (<i>Thunnus</i> Spp.) Based on Mitochondrial COI DNA in Indonesian and Australian Waters.....	97
<i>Jean Claudia De Soysa, Satrio Hani Samudra, Siti Zanuba Aisyah, Alda Awaysan Banjarsari, Radixa Radhya Ramadhan Haryanto, Dondy Arafat, Christopher Halashon Tambunan, Purwa Sulistya Ningrum, Inna Puspa Ayu, Meutia Samira Ismet, Beginer Subhan</i>	
Characteristics of Beach and Foreshore Sediments at the Coastal of Carita Beach, Pandeglang, Banten.....	104
<i>Anak Agung Eka Andiani, I Gusti Ayu Istri Pradnyandari Dewi, Ni Putu Pradnya Megasari, Yola Wulandari, Nur Almira Mahsa, Wulantika Irza Savira Putri, Santi Susanti, Tri Prartono, Rastina, Mochamad Tri Hartanto, Erwin Maulana, Sylvie Siskawati, Teguh Nugraha, Dwi Ikhsan Yulianto, Yuli Naulita, Nyoman Metta Nyanakumara Natih, Santoso Budi Widiarto, Kattia Setyani Widiastuti</i>	
Microplastics in the Digestive Tract of Sunu Grouper (<i>Plectropomus Leopardus</i> Lacepede, 1802) from Coastal Waters of North Maluku	116
<i>Najamuddin, Abdurrachman Baksir, Halikuddin Umasangaji, Erlena Umanahu</i>	

The Pollution Status of Banten Bay Waters Based on Physical and Chemical Parameters Using CCME Index.....	127
<i>Ameliani Wardania Putri, Sulistiono Sulistiono, Ali Mashar, Aliati Iswantari</i>	
Characteristics Microplastics in Gills and Digestive Tract of Fish at Seagrass Ecosystem on Bintan Island, Indonesia.....	138
<i>Fadhliyah Idris, Try Febrianto, Aditya Hikmat Nugraha, Arief Pratomo, Chandra Joei Koenawan, Falmi Yandri, Rika Anggraini, Wiwin, Puspa Ayu, Jelita Rahma Hidayati</i>	
Antioxidant and DPP-IV Inhibitory Activities of Sargassum Cristaeofolium Extract: A Therapeutic Potential Agent for Type-2 Diabetes.....	145
<i>Agung Giri Samudra, Agung Endro Nugroho, Retno Murwanti</i>	
A Review Prospective Study: Exploring Bounty Marine Biota Bioprospecting	157
<i>Neviaty Putri Zamani, Alda Awayan Banjarsari, Jean Claudia De Soysa, Jane Cita Syafitri Sudrajat, Arta Silaban</i>	
Determining Potential Location for Development Planning of Ocean Current Energy for Electricity Resources in Bengkulu.....	164
<i>Rauzatul Nazzla, Indra Jaya, Donwill Panggabean, Ayi Rahmat</i>	
Ecologically Benign Parameters: Setting Bangka Island, East Likupang for a Nature Ecotourism Destination.....	176
<i>Christin R. M. Malingas, Anik M. Hariati, Luchman Hakim, Dewa Gede Raka Wiadnya, Riski Agung Lestariadi</i>	
Fish Community Structure in the Seagrass Ecosystem of Tidung Besar Island, Seribu Islands.....	189
<i>Firyal Kintania Fadhila, Sulistiono Sulistiono, Niken T. M. Pratiwi</i>	
Sustainable Management of Marine Resources Through Customary Practices: The Implementation of Sasi on Sea Cucumbers in Werka Village, Maluku Province	209
<i>Siti Hajar Suryawati, Radityo Pramoda, Hakim Miftakhul Huda, Adriani Sri Nastiti, Lismining Pujiyani Astuti, Andrias Steward Samusamu, Arip Rahman, Raymon Rahmanov Zedta, Reny Puspasari, Masayu Rahmia Anwar Putri</i>	
Snapper and Grouper Fisheries Management in Aisandami Using the EAFM Approach	222
<i>Ridwan Sala, Duaitd Kolibongso, Yuanike Kaber, Douglas Wattimury</i>	
Ichthyoplankton Composition and Distribution in Kilwaru Waters, East Seram Regency, Maluku Province.....	235
<i>Karsono Wagiyu, Masayu Rahmia Anwar Putri, Muhammad Taufik, Reny Puspasari, Puput Fitri Rachmawati, Andrias Samusamu, Prihatiningsih, Mujiyanto, Tirtadanu, Ofri Johan</i>	
Utilization of Coastal & Marine Resources by the Local Community of Kei Kecil Conservation Area	246
<i>Hakim Miftakhul Huda, Radityo Pramoda, Siti Hajar Suryawati, Masayu Rahmia Anwar Putri, Reny Puspasari, Arip Rahman, Raymon Rahmanov Zedta, Andrias Steward Samusamu</i>	
Spawning Season Estimation for Bullet Tuna (<i>Auxis Rochei</i> Risso, 1810) in Southern Waters of Bali: A Postovulatory Follicles - Based Approach.....	256
<i>Indrastiwi Pramulati, Hety Hartaty, Gussasta Levi Arnenda</i>	

Community Understanding and Recommendations for Sea Turtle Conservation Amidst Life-Threatening Risks on Buru Island	263
<i>Ravidas Kirtan, Ahmad R. Faruqie, Mochamad Dwianto, Hasna S. Al Munawar, Aulia P. Khaerunnisa, Caesar A.W. Putra, Gabriella A.S. Gerungan, Raihana Y. Azzahra, Ahmad Faisal, Gifta B. Sukmaayu, Iffa Purnama, Taufik Gifari, Albi M.T. Musa, Alifvian K. Putra, Zeta Raihan, Arinal F. Rahmat, Fida Z.L. Yasmin, Ilham Maulana, Nadya Cakasana, Muhammad Iqbal</i>	
A Snapshot on the Risk Indicators of Fisher's Income and the Fish Size: Mini Purse Seine Fishery in Bitung Waters	274
<i>Tirtadamu, Moh Fauzi, Fayakun Satria, Duranta D. Kembaren, Prihatiningsih, Erfind Nurdin, Lilis Sadiyah, Yayan Hernuryadin, Tegoeh Noegroho, Umi Chodrijah</i>	
Phytoplankton Communities in Different Season in the Coastal Area of Kawasi, the Western Part of Obi Island, North Maluku, Indonesia 04	280
<i>Dea Fauzia Lestari, Afviya Salsabila, Niken Octaviandini, Nadya Cakasana, Riza Aitiando Pasaribu, Windy Prayogo, Retno Dewi Handayani Sujatno, Prasari Risky Hutami, Pandu Setyabud, Farel Ahadyatulakbar</i>	
The Community Structure of Zooplankton in Bojonegara Coastal Waters, Banten Bay, Indonesia.....	298
<i>Endang Sunarwati Srimariana, Alexandra Maria Diandra Rahardjo, Sulistiono Sulistiono, Tumpak Sidabutar</i>	
Smart Temperature and Vibration Monitoring Device for Small-Scale Fishing Vessel Engines	313
<i>Yuniar Endri Priharanto, Indra Jaya, Ayi Rahmat, Medria Kusuma Dewi Hardhienata, Donwill Panggabean</i>	
Mapping the Habitat of Demersal Fish Resources to Determine Suitable Fishing Gear	322
<i>Rauzatul Nazzla, Indra Jaya, Jonson Lumban Gaol, Yeni Herdiyeni, Donwill Panggabean</i>	
Coastline Change and Coastal Habitat Loss: A Case Study in Trabzon City, Southeast Black Sea, Türkiye	335
<i>Neira Purwanty Ismail, Coskun Erüz</i>	
Benthic Habitats Mapping in Pari Island, Kepulauan Seribu, Indonesia Using Drone and sentinel-2B Imagery with Object Based Image Analysis Method.....	345
<i>James P. Panjaitan, Ghani Mahendratama, Vincentius Siregar</i>	
The Relation Between Volume Backscattering Strength (SV) and Density of <i>Enhalus Acoroides</i> at Wangi-Wangi Island, Wakatobi Regency	358
<i>Dianti, Sri Pujiyati, Steven Solikin</i>	
Analysis of Changes in Shallow Water Benthic Habitat Area Using Sentinel-2 Imagery on the Ujung Genteng Coast, Sukabumi, West Java, Indonesia	372
<i>James Parlindungan Panjaitan, Jasmine Fikrinda Qirani, Syamsul Bahri Agus</i>	
Temporal Analysis of Mangrove Carbon Stock Using Sentinel-2 Data on Menjangan Island, West Bali National Park, Indonesia.....	386
<i>Ranti Dwimarsa Salsabila, James Parlindungan Panjaitan</i>	
Distribution of Fish Target Strength Value in Menjangan Island Waters, West Bali National Park	397
<i>Imam Syahnanda Irawan, Sri Pujiyati, Syamsul Bahri Agus, Steven Solikin</i>	
Parametric Study on Effect of Condensing and Evaporating Temperatures on Cold Storage Performance and Carbon Footprint of Traditional Fishing Vessels	409
<i>Suhengki, Henry Munandar Manik, Totok Hestirianoto, Susilohadi, Muhamad Yulianto</i>	

Study on Design and Construction of Unmanned Surface Vehicle (USV) as a Marine Survey Vehicle 05	422
<i>Arif Baswantara, Muhammad Romdonul Hakim, Anas Noor Firdaus, Muhammad Riyono Edi Prayitno, Khaidan Firmansyah, Reinaldi Nur Fasha</i>	
Shallow Water Habitat Mapping in Bira Besar Island, Jakarta Province, Indonesia	436
<i>Dimas Ridwan Maulana, Fadhal Abiyu Ridho, Vincent Austin Campbell, Alfian Fadhila Hijra Rabbani, Haikal Zidan Alvarizi, Riza Aitiando Pasaribu</i>	
Spatial Distribution of Tidal Flooding in the Coastal Areas of Demak Regency, Central Java	450
<i>Bayu Adnan, Risti Endriani Arhatin, Jonson Lumban-Gaol, Setyo Budi Susilo</i>	
Geospatial Modelling of Coastal Exposure Index Along the Madura Strait.....	462
<i>Herlambang Aulia Rachman, Zainul Hidayah</i>	

Author Index