

**LEMBAR
HASIL PENILAIAN SEJAWAT SEBIDANG ATAU PEER REVIEW
KARYA ILMIAH : PROSIDING**

Judul Karya Ilmiah/Prosiding : Characteristics of Halmahera Eddy and its relation to sea surface temperature, chlorophyll-a, and thermocline layer

Jumlah Penulis : 6 (Enam)

Status Pengusul : ~~Penulis pertama~~/ penulis ke 2./~~penulis korespondensi~~ **

Penulis Karya Ilmiah : Muhammad Firdaus Ramadhan, Denny Nugroho Sugianto, **Anindya Wirasatriya**, Heryoso Setiyono, Kunarso, Lilik Maslukah

Identitas Karya Ilmiah : a. Nama Prosiding : IOP Coference Series: Earth and Environmental Science
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Semarang,
 Reviewer 1

Prof. Ir. Muslim, M.Sc., Ph.D
 NIP. 196004041987031002
 Unit Kerja : FPIK UNDIP

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- a) Prosiding *IOP Coference Series: Earth and Environmental Science*, Volume 530, The 5th International Conference on Tropical and Coastal Region Eco Development 17-18 September 2019, Semarang, Indonesia merupakan prosiding seminar internasional. Artikel yang diterbitkan dinilai memiliki unsur unsur artikel ilmiah yang lengkap sesuai dengan kaidah jurnal ilmiah, terdiri dari Abstract, Introduction, Data And Method, Results And Discussion, Conclusion, Acknowledgments, References
- b) Ruang lingkup artikel ini sangat sesuai dengan bidang penulis yakni oceanografi. Penelitian ini menganalisis tentang variabilitas musiman *Halmahera Eddy* (HE) pada beberapa kedalaman dan hubungannya dengan produktivitas primer menggunakan parameter suhu permukaan laut dan klorofil-a. Selain itu, penelitian ini juga menyelidiki pengaruh arus permukaan HE terhadap lapisan termoklin. dan didukung dengan 14 pustaka, dimana yang lebih dari 10 tahun ada 6 pustaka
- c) Artikel ilmiah ini dinilai telah memberikan data dan informasi yang mencukupi. Metode untuk memperoleh data antara lain data arus, Mixed Layer Data (MLD) dan vertical suhu diperoleh dari Copernicus Marine Environment Monitoring Service (CMEMS), sedangkan suhu permukaan dan chlorophyll-a diperoleh dari Ocean Color resolusi 4 km dengan format Net Common Data File (NetCDF).

Prosiding *IOP Coference Series: Earth and Environmental Science* diterbitkan oleh IOP Publishing merupakan penerbit yang sudah lama menerbitkan prosiding seminar yang terindeks Scopus. Penerbit ini dinilai memiliki unsur yang lengkap, dengan kualitas penerbitan dinilai baik. Nilai = $0,4/5 \times 27,5 = 2,2$

Semarang, 30 Mei 2022
Reviewer 2


Prof. Dr. Ir. Ambariyanto, M.Sc
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Characteristics of Halmahera Eddy and its relation to sea surface temperature, chlorophyll-a, and thermocline layer

Firdaus Ramadhan, Muhammad^a ; Nugroho Sugianto, Denny^{a, b}; Wirasatriya, Anindya^{a, b}; Setiyono, Heryoso^a; Kunarso^{a, b}; Maslukah, Lilik^{a, b}
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^a Department of Oceanography, Faculty of Fisheries and Marine Science, Diponegoro University, Jl. Prof. Sudharto SH, Tembalang, Semarang, Indonesia

^b Center for Coastal Disaster Mitigation and Rehabilitation Studies, Universitas Diponegoro, Semarang, Indonesia

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Abstract

Western equatorial Pacific is a confluence region of the water mass from the northern hemisphere and the southern hemisphere. One of the interesting phenomena in this region is Halmahera Eddy. The purpose of this research is to investigate the seasonal variability of the Halmahera Eddy on several depths and its relation to the primary productivity using sea surface temperature and chlorophyll-a parameters. In addition, this research also investigates the influence of the surface currents of the Halmahera Eddy to the thermocline layer. The results show that the Halmahera

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Puryajati, A.D. , Wirasatriya, A. , Maslukah, L. (2021) *IOP Conference Series: Earth and Environmental Science*

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Eddy on the surface is affected by several currents in the waters of the Western Pacific Ocean and the monsoon system that is strengthened in the East Monsoon-Transition II (June-October), while weakened by the end of Transition II-West monsoon (November-February), Current Depth of Halmahera Eddy pattern strengthening, weakening, shifting every seasons and the currents weaker along with increasing depth. The primary productivity is identified by chlorophyll-a (0.1-0.15 mg/m³) and warm pool (28-31°C) in Halmahera sea. Halmahera Eddy also can suppress the thermocline layer. © Published under licence by IOP Publishing Ltd.


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1 Harsono, G.
(2014), pp. 41-81.

2 Rhines, P.B.
(2001) *Encyclopedia of Ocean Sciences*, 3, pp. 1717-1730. Cited 21 times.

3 Harsono, G., Atmadipoera, A.S., Syamsudin, F., Manurung, D., Mulyono, S.B.
(2014) *Asian Journal of Scientific Research*, 7 (4), pp. 571-580. Cited 11 times.

4 Wirasatriya, A., Setiawan, R.Y., Subardjo, P.
The Effect of ENSO on the Variability of Chlorophyll-a and Sea Surface Temperature in the Maluku Sea

(2017) *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 10 (12), art. no. 8030986, pp. 5513-5518. Cited 43 times.
<http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=4609443>
doi: 10.1109/JSTARS.2017.2745207

[View at Publisher](#)

- 5 Wang, F., Li, Y., Wang, J.
Intraseasonal variability of the surface zonal currents in the western tropical Pacific Ocean: Characteristics and mechanisms
(2016) *Journal of Physical Oceanography*, 46 (12), pp. 3639-3660. Cited 39 times.
<http://journals.ametsoc.org/doi/pdf/10.1175/JPO-D-16-0033.1>
doi: 10.1175/JPO-D-16-0033.1
[View at Publisher](#)
-
- 6 Messié, M., Radenac, M.-H.
Seasonal variability of the surface chlorophyll in the western tropical Pacific from SeaWiFS data
(2006) *Deep-Sea Research Part I: Oceanographic Research Papers*, 53 (10), pp. 1581-1600. Cited 56 times.
doi: 10.1016/j.dsr.2006.06.007
[View at Publisher](#)
-
- 7 Lehodey, P.
The pelagic ecosystem of the tropical Pacific Ocean: Dynamic spatial modelling and biological consequences of ENSO
(2001) *Progress in Oceanography*, 49 (1-4), pp. 439-468. Cited 84 times.
www.elsevier.com/inca/publications/store/4/2/2
doi: 10.1016/S0079-6611(01)00035-0
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-
- 8 Kashino, Y., Ueki, I., Kuroda, Y., Purwandani, A.
Ocean variability North of New Guinea derived from TRITON buoy data
(2007) *Journal of Oceanography*, 63 (4), pp. 545-559. Cited 27 times.
doi: 10.1007/s10872-007-0049-y
[View at Publisher](#)
-
- 9 Wirasatriya, A., Sugianto, D.N., Helmi, M., Setiawan, R.Y., Koch, M.
Distinct Characteristics of SST Variabilities in the Sulawesi Sea and the Northern Part of the Maluku Sea during the Southeast Monsoon
(2019) *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, 12 (6), art. no. 8719002, pp. 1763-1770. Cited 18 times.
<http://ieeexplore.ieee.org/xpl/RecentIssue.jsp?punumber=4609443>
doi: 10.1109/JSTARS.2019.2913739
[View at Publisher](#)
-
- 10 Setiawan, R.Y., Wirasatriya, A., Hernawan, U., Leung, S., Iskandar, I.
Spatio-temporal variability of surface chlorophyll-a in the Halmahera Sea and its relation to ENSO and the Indian Ocean Dipole
(2020) *International Journal of Remote Sensing*, 41 (1), pp. 284-299. Cited 20 times.
<https://www.tandfonline.com/loi/tres20>
doi: 10.1080/01431161.2019.1641244
[View at Publisher](#)
-

- 11 Lehodey, P., Bertignac, M., Hampton, J., Lewis, A., Picaut, J.
El Nino Southern Oscillation and tuna in the western Pacific


(1997) *Nature*, 389 (6652), pp. 715-718. Cited 390 times.
doi: 10.1038/39575

[View at Publisher](#)

- 12 (1992) *The Specification for Oceanographic Survey Oceanographic Survey Data Processing (GB/T 12763 7 - 91)*, pp. 68-70. Cited 8 times.
Bureau of technical supervision of the P R of China

- 13 Hutabarat, M.F., Purba, N.P., Astuty, S., Syamsuddin, M.L., Kuswardani, A.R.T.D.
(2018) *Jurnal Perikanan Dan Kelautan*, 9, pp. 9-21. Cited 4 times.

- 14 Sidabutar, H., Cahayani, Rifai, A., Indrayanti, E.
(2014) *Jurnal Oseanografi*, 3, pp. 135-141. Cited 4 times.

 Firdaus Ramadhan, M.; Department of Oceanography, Faculty of Fisheries and Marine Science, Diponegoro University, Jl. Prof. Sudharto SH, Tembalang, Semarang, Indonesia; email:firdausram16@gmail.com

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PREFACE

On behalf of the Organizing Committee, I would like to extend our warmest regards to all participants of the International Conference on Tropical and Coastal Region Eco-Development (ICTCRED) 2019. This annual conference is the fifth event at Semarang, Central Java, Indonesia that is organized by the Faculty of Fisheries, Universitas Diponegoro. This year we brought an essential global topic the *Integrated Coastal Zone Management for Sustainable Development*. The conference aims to provide a forum to exchange ideas and their current achievements for researchers, academicians, professionals, and industries to expose and exchange innovative ideas, methods, and experiences in the areas related to tropical life sciences and coastal development.

We have accepted 156 abstracts for oral and poster presentations coming from different universities and research centers from many countries, which were consisted of 13 big interests. Besides, we have cordially invited five highly respected researchers as keynote speakers with different fields to share their knowledge and expertise. I am grateful for each one of them for setting aside their valuable time to participate in this conference.

The committee extend very kind thank all participants for the success of the conference. They were Rector of Universitas Diponegoro, Dean of Faculty of Fisheries and Marine Science, the keynote speakers. I also would like to acknowledge the Institute of Physics (IOP) for the collaboration in publishing the conference proceedings, our sponsors the Bionesia, Faculty of Law, Universitas Diponegoro, COREM Undip, and Deltares.

Finally, we proudly present some selected papers in IOP Conference Series: Earth and Environmental Science. I do hope that the 5th ICTCRED 2019 event brings a fruitful knowledge and be a memorable event not only from the scientific perspective but also in the joy of meeting with other scientists for mutual collaboration.

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September 18, 2019 | Gumaya Tower Hotel, Semarang

“Integrated Coastal Zone Management for Sustainable Development”

It is a pleasure to invite you to the 5th International Conference on Tropical and Coastal Region Eco Development (5th ICTCRED) which will be held in Semarang, 18 September 2019. The 5th ICTCRED is organized by The Faculty of Fisheries and Marine Science, Diponegoro University, Indonesia. The ICTCRED is an annual conference intended to promote and disseminate scientific findings within the scope of Tropical and Coastal Region Eco Development. The 4th ICTCRED was held successfully last year in Semarang and the proceeding was published by IOP and Biodiversitas.

KEYNOTE SPEAKER



Eric de Ruijter van Steveninck, Ph.D
IHE Delft Institute for Water Education,
Netherland



Prof. Budy P. Resosudarmo
Australian National University, Australia



Prof. Dr. Eddy Pratomo, SH., MA
Universitas Diponegoro, Indonesia



Prof. Hiroki Saeki, Ph.D
Hokkaido University, Japan



***R. Dwi Susanto, Ph.D.**
University of Maryland, USA

**to be confirmed*

PUBLICATION

The article presented at ICTCRED 2019 will be published in the proceedings of the **Institute of Physics (IOP)** indexed Scopus. Selected articles will be published in **Biodiversitas** (Journal of Biological Diversity), **World Researchers Associations** (Research Journal of Chemistry and Environment), and **AACL Bioflux or AES Bioflux** (Aquaculture, Aquarium, Conservation & Legislation, or **Advances in Environmental Sciences - International Journal of the Bioflux Society**) with additional fee.

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TIMELINE

Presenter Registration	: April - 10 July
Non Presenter Registration	: April - 10 September
Abstract Submission	: 1 May - 30 June
Acceptance Notification	: 17 July
Full Text Submission	: 15 October
Venue Registration	: 17 September (3-5 pm)
Conference	: 18 September
*City Tour	: 19 September

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The conference will cover main theme Integrated Coastal Zone Management for Sustainable Development includes the following topics:

- Aquaculture
- Fisheries
- Marine Product
- Biotechnology
- Coastal Engineering
- Marine Science
- Air Sea Interaction
- Coastal Policy
- Fisheries Processing Technology
- Coastal Resources
- Coastal Social & Economic
- Crustacean Diversity.
- Disaster Mitigation & Rehabilitation

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We invite the submission of abstracts for oral or poster presentation. All submitted abstracts will be peer-reviewed and authors of the accepted abstracts are encouraged to submit a full paper. Please visit www.ictcred.undip.ac.id for online registration and abstract submission.

Category	Early Bird	Regular	On Site
Presenter	-	-	-
General Participant	Rp 2.000.000	Rp 2.500.000	-
Undergraduate Student	Rp 1.500.000	Rp 2.000.000	-
Overseas Participant	\$ 200	\$ 250	-
Non Presenter	Rp 750.000	1.000.000	Rp 1.250.000

Early Bird Deadline : 1 August

Second Paper : Rp 1.500.000

Normal Rate Deadline : 18 August

CONTACT US : Faculty of Fisheries and Marine Sciences, Jl. Prof. Soedarto, S.H. Tembalang, Semarang, Indonesia
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Volume 530

2020

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**The 5th International Conference on Tropical and Coastal Region Eco Development 17-18
September 2019, Semarang, Indonesia**

Accepted papers received: 26 June 2020

Published online: 15 September 2020

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Serious gaming for port development as a learning tool: a case study of port constructor

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Abstract. Ports play an essential role in nation's economic growth by fostering trade and development. Making a master plan for port development includes several actions that need to be taken before a final master plan is decided. Implementing such actions in a real situation as a try out for port development will result in time and financial loss, not to mention the effect to the environment and availability of space. Port Constructor is introduced last year as the newest tool to simulate all the planning and development process of a port and see the result of every action in relatively short time. Port Constructor is a serious game, it looks like a game, but it also has a learning objective that needs to be achieved. The primary function of this game is that players can take several actions, undertake tasks, and experience situations which would be impossible to be tried in a real life situation. In addition, Port Constructor allows players to have a position as a port planner and developer, which may not be possible in reality, and experience a real situation within a short period of time. By developing their own port scenario (or real-port scenario) in the Port Constructor, the player will have a real experience as a port planner. This study was conducted to assess the Port Constructor game as a learning tool in port planning and development both for student and more experienced port developers. Furthermore, this study also provides a way of developing scenarios inside the Port Constructor game as well as ensuring that the aim of this game can be achieved by doing a game session together with students and professionals participants. The game sessions were held to prove the playability of the game as a single-player and multi-player game. Resulting in a better outcome when the game played as a multi-player game because players can have a discussion before deciding the next actions that they will take. Examples of several port layouts are provided to prove the flexibility of this game that can be used to accommodate uncertainty of port development when using in the future. In conclusion, developers believe that Port Constructor can be a useful instrument for the learning process of people at the educational level as well as for port developers on their port planning course and project.

1. Introduction

1.1. General Background

During recent years, the expansion of global trade has led to an increase of vessel sizes, and the demand to build new port infrastructure or manage existing facilities that will reflect on growing wealth worldwide. Usually, an extension of a new port only focuses on increasing the capacity of an existing port (Schipper et al., 2015). Planning a port is a multidisciplinary work supported by various fields of expertise, such as oceanographer, safety and logistic, shipping, economic, and nautical engineering



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