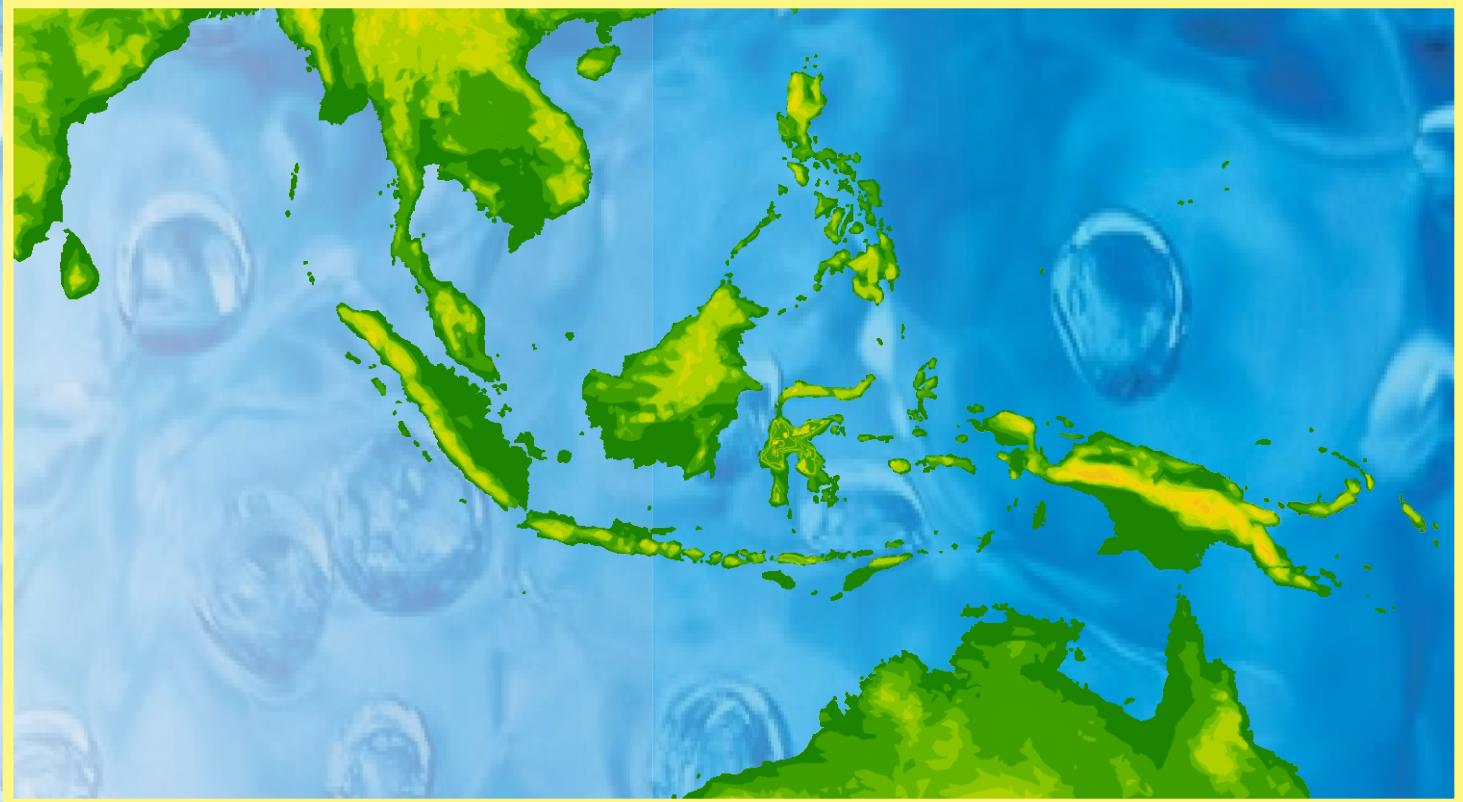


ISSN Print : 2087 - 9423
ISSN Electronic : 2620 - 309X

Vol. 11 No. 1 April 2019

Jurnal

Ilmu dan Teknologi Kelautan Tropis



Accredited DGRDS
No 21/E/ KPT/2018, Dated 9 July 2018

Publisher :

Department of Marine Science and Technology
Faculty of Fisheries and Marine Science
Bogor Agricultural University
Indonesian Association of Oceanologists (ISOI)
Association of Indonesian Coastal Management Experts (HAPPI)



HAPPI
Himpunan Ahli
Pengelolaan Pesisir
Indonesia

<http://journal.ipb.ac.id/index.php/jurnalikt/>

Abstracting & Indexing :



Vol. 11 No. 1 April 2019

**ISSN Print : 2087-9423
ISSN Electronic : 2620-309X**

JURNAL ILMU DAN TEKNOLOGI KELAUTAN TROPIS

**Accredited by DGRDS
No 21/E/KPT/2018, Dated 9 July 2018**

Publisher:
Department of Marine Science and Technology
Faculty of Fisheries and Marine Science
Bogor Agricultural University
Indonesian Association of Oceanologists (ISOI)
Association of Indonesian Coastal Management Experts (HAPPI)
<http://journal.ipb.ac.id/index.php/jurnalikt/>



HAPPI
Himpunan Ahli
Pengelolaan Pesisir
Indonesia

Jurnal Ilmu dan Teknologi Kelautan Tropis

Jurnal Ilmu dan Teknologi Kelautan Tropis (JITKT), published since June 2009, starting in December 2010 was published in print and electronic. The name of **E-Jurnal Ilmu dan Teknologi Kelautan Tropis** with ISSN (Online) 2085-6695 starting from 2009-2017, then it changes in 2018 with name **Jurnal Ilmu dan Teknologi Kelautan Tropis** with ISSN (Online) 2620-309X until now. This journal is a scientific journal in the field of tropical marine science and technology and is published periodically three times a year by the Department of Marine Science and Technology of the Faculty of Fisheries and Marine Science-Bogor Agricultural University, Indonesian Association of Oceanologists, and the Association of Indonesian Coastal Management Experts. This journal is nationally accredited by Directorate General of Research and Development Strengthening, Ministry of Research, Technology and Higher Education of the Republic of Indonesia **No.: 21/E/KPT/2018, dated 9 July 2018.**

Publisher	: Department of Marine Science and Technology, FPIK-IPB Indonesian Association of Oceanologists (ISOI) Association of Indonesian Coastal Management Experts (HAPPI)
Advisory board	: Head of Department of Marine Science and Technology, FPIK-IPB Head of Indonesian Association of Oceanologists (ISOI) Head of Association of Indonesian Coastal Management Experts (HAPPI)
Editor in Chief	: Prof. Dietrich Geoffrey Bengen
Associate Editors :	
Prof. Joko Santoso	Department of Aquatic Products Technology, Faculty of Fisheries and Marine Science, Bogor Agricultural University, Indonesia
Prof. Ocky Karna Radjasa	Department of Marine Science, Diponegoro University, Indonesia
Editorial Boards :	
Prof. Sovan Lek	University of Toulouse III, France
Dr. Ian M. Dutton	University of Alaska Fairbanks, USA
Dr. Hugues Lemonnier	Institut Français de Recherche pour l'Exploitation de la Mer (IFREMER), France
Dr. Abdullah Hisam B. Omar	University of Technology Malaysia, Malaysia
Dr. Brian R. Crawford	Coastal Resource Center, University of Rhode Island, USA
Dr. Kunal Mondal	Jadavpur University, India
Dr. Maria Lourdes Palomares	The University of British Columbia, Canada
Dr. Davin H.E. Setiamarga	National Institute of Technology, Wakayama College, Japan
Prof. Vincentius Siregar	Department of Marine Science and Technology, Faculty of Fisheries and Marine Science, Bogor Agricultural University, Indonesia
Dr. Safri Burhanuddin	Indonesian Association of Oceanologists, Indonesia
Prof. Inneke F.M. Rumengen	Faculty of Fisheries and Marine Science, Sam Ratulangi

Prof. Indra Jaya	University, Indonesia Department of Marine Science and Technology, Faculty of Fisheries and Marine Science, Bogor Agricultural University, Indonesia
Dr. I Wayan Nurjaya	Department of Marine Science and Technology, Faculty of Fisheries and Marine Science, Bogor Agricultural University, Indonesia
Dr. Tri Prartono	Department of Marine Science and Technology, Faculty of Fisheries and Marine Science, Bogor Agricultural University, Indonesia
Dr. Alimuddin	Department of Aquaculture, Faculty of Fisheries and Marine Science, Bogor Agricultural University, Indonesia
Prof. Zainal Arifin	Indonesian Institute of Sciences, Indonesia
Dr. Agus Sudaryanto	Agency for the Assessment and Application of Technology (BPPT), Indonesia
Dr. Yannis Cuypers	Pierre and Marie Curie University, Paris, France
Dr. Carsten Toms	Institute of Pharmaceutical Biology, University of Dusseldorf, Germany

Technical Editors : Evi Maya Sari, M.Si.
Editorial Office : Departemen Ilmu dan Teknologi Kelautan, FPIK
 Jl. Lingkar Akademik, Kampus IPB Darmaga, Bogor 16680
 E-mail: jurnalitkt@apps.ipb.ac.id; Telp/Fax.: (0251) 862-7323

The contents can be quoted by mentioning the source

FOREWORD

Our sincere gratitude chanted for the Almighty God. Without His will and power, the editor team may not be able to successfully publish ‘Jurnal Ilmu dan Teknologi Kelautan Tropis’ Volume 11 Number 1 April 2019 online and in print. This journal is an information media and dissemination for the results of research in marine science and technology field, especially in Indonesia and Southeast Asian regions. This journal is expected to actively and continuously disseminate the best research results to various stakeholders.

This edition is published in 20 articles. All articles had been reviewed through a rigorous review process by reviewers/partners. We would like to express our appreciation and gratitude to the writers and reviewers.

This edition is complemented by an index loaded on the final page of the journal to help readers finding page or location. Also to find any topic the author considered. Hopefully this ‘Jurnal Ilmu dan Teknologi Kelautan Tropis’ may be beneficial and able improve the quality of research results for stakeholders.

Editor in chief

Jurnal Ilmu dan Teknologi Kelautan Tropis
Vol. 11 No. 1, April 2019

TABLE OF CONTENTS

<i>SPATIAL DISTRIBUTIONS OF NUTRIENTS AND CHLOROPHYLL-A: A POSSIBLE OCCURRENCE OF PHOSPHORUS AS A EUTROPHICATION DETERMINANT OF THE JAKARTA BAY</i> Hanif Budi Prayitno and Afdal	1
<i>THE HANDLING OF ROUND SCAD ON MINI PURSE SEINE BOATS, REGENCY OF REMBANG REVIEWED BASED ON THE DECREE OF MINISTER OF MARINE AFFAIRS AND FISHERIES NUMBER 52A/KEPMEN-KP/2013</i> Sri Untari Puji Rejeki, Y.S. Darmanto, dan Eko Nurcahya Dewi	13
<i>PEMETAAN SUHU LAUT DI PERAIRAN TELUK BALIKPAPAN MENGGUNAKAN TEKNOLOGI AKUSTIK TOMOGRAFI PANTAI (MAPPING SEA TEMPERATURE OF BALIKPAPAN BAY WATERS USING COASTAL ACOUSTIC TOMOGRAPHY SYSTEM (CATs))</i> Teguh Arif Pianto, Henry M. Manik, dan Indra Jaya	25
<i>HUBUNGAN ANTARA KETERSEDIAAN CAHAYA MATAHARI DAN KONSENTRASI PIGMEN FOTOSINTETIK DI PERAIRAN SELAT BALI (RELATIONSHIP BETWEEN SUNLIGHT AVAILABILITY AND PHOTOSYNTHETIC PIGMENT CONCENTRATION IN BALI STRAIT WATERS)</i> Anna Fauziah, Dietrich G. Bengen, Mujizat Kawaroe, Hefni Effendi, dan Majariana Krisanti	37
<i>ANALISIS PERUBAHAN LAHAN DAN SEBARAN MANGROVE MENGGUNAKAN ALGORITMA SUPPORT VECTOR MACHINE (SVM) DENGAN CITRA LANDSAT DI KABUPATEN BINTAN KEPULAUAN RIAU (ANALYSIS OF LAND USE CHANGES AND MANGROVE DISTRIBUTION CHANGE USING SUPPORT VECTOR MACHINE (SVM) ALGORITHM WITH LANDSAT SATELLITE IMAGERIES IN BINTAN REGENCY, KEPULAUAN RIAU)</i> Nur Audina, Vincentius P. Siregar, dan I Wayan Nurjaya	49
<i>KONDISI NITRAT, NITRIT, AMONIA, FOSFAT DAN BOD DI MUARA SUNGAI BANYUASIN, SUMATERA SELATAN (CONDITION OF NITRATE, NITRITE, AMMONIA, PHOSPHATE, AND BOD OF BANYUASIN RIVER ESTUARY, SOUTH SUMATERA)</i> Wike Ayu Eka Putri, Anna Ida Sunaryo Purwiyanto, Fauziyah, Fitri Agustriani, dan Yulianto Suteja	65
<i>DAYA DUKUNG OPTIMUM BERBASIS POLA TATA GUNA LAHAN PESISIR DI MUARA GEMBONG, KABUPATEN BEKASI (OPTIMUM CARRYING CAPACITY BASED ON COASTAL LAND USE IN MUARA GEMBONG, BEKASI DISTRICT)</i> Shabrina Oktaviani, Yonvitner, dan Zulhamsyah Imran	75

PROTEIN HISTON PADA SIPUT GONGGONG BINTAN <i>Strombus</i> sp. SEBAGAI KANDIDAT PANGAN FUNGSIONAL (<i>HISTONE PROTEIN OF BINTAN GONGGONG SNAIL Strombus</i> sp. <i>AS FUNCTIONAL FOOD CANDIDATE</i>) Lily Viruly, Nuri Andarwulan, Maggy T. Suhartono, dan Mala Nurilmala	89
ANALISIS KEBERLANJUTAN PERIKANAN <i>ELASMOBRANCH</i> DI TANJUNG LUAR KABUPATEN LOMBOK TIMUR (<i>SUSTAINABILITY ANALYSIS OF ELASMOBRANCH FISHERIES IN TANJUNG LUAR, EAST LOMBOK DISTRICT</i>) Iman Wahyudin, Mohammad Mukhlis Kamal, Achmad Fahrudin, dan Mennofatria Boer	103
<i>ID THE MANTA : MANTA SIGHTINGS IN MANTA SANDY – RAJA AMPAT, WEST PAPUA-INDONESIA</i> Hidayati Azizah, Maulita Sari Hani, and Ronal Mambrasar	117
<i>THE EFFECT OF OCEANOGRAPHIC FACTORS ON SKIPJACK TUNA FAD VS FREE SCHOOL CATCH IN THE BONE BAY, INDONESIA: AN IMPORTANT STEP TOWARD FISHING MANAGEMENT</i> Mukti Zainuddin, Safruddin, Aisjah Farhum, Muhammad Ridwan, Andi Rani Sahni Putri, and Rachmat Hidayat	123
<i>THE MODEL OF MACRO DEBRIS TRANSPORT BEFORE RECLAMATION AND IN EXISTING CONDITION IN JAKARTA BAY</i> Haifa H. Jasmin, Noir P. Purba, Syawaludin A. Harahap, Widodo S. Pranowo, Mega L. Syamsudin, and Ibnu Faizal	131
<i>ANALYSIS OF THE SEASONAL IMPACT ON ISOTOPIC BASELINES OF DISSOLVED INORGANIC CARBON (DIC) IN COASTAL WATERS SPERMONDE, SOUTH SULAWESI</i> Wa Ode Rustiah, Alfian Noor, Maming, and Muhammad Lukman	141
<i>OFFSHORE FLOATING MARINE FISH CAGE AQUACULTURE DEVELOPMENT PLANNING EVALUATION BASED ON HYDRO- OCEANOGRAPHY CONDITIONS IN SABANG BAY, WEH ISLAND</i> Ulung Jantama Wisha, Guntur Adhi Rahmawan, Koko Ondara, Wisnu Arya Gemilang, Ruzana Dhiawuddin, Nia Naelul Hasanah Ridwan, and Ilham	151
PENGAMATAN PROFIL PEMIJAHAN INDUK BANDENG, <i>Chanos chanos</i> GENERASI 1 (G1) DENGAN IMPLANTASI HORMON LHRH-a PADA PEMELIHARAAN SECARA TERKONTROL (<i>THE OBSERVATION OF SPAWNING PROFILE OF MILKFISH BROODSTOCK, Chanos chanos FIRST GENERATION (G1) IMPLANTED WITH LHRH-a HORMONE REARED IN CONTROLLED TANK</i>) Tony Setia Dharma, Gigih Setia Wibawa, dan Zafran	163
<i>THE IMPACT OF OCEANOGRAPHIC PARAMETERS CHANGES ON THE DISTRIBUTION AND ABUNDANCE OF SKIPJACK TUNA <i>Katsuwonus pelamis</i> IN MAKASSAR STRAIT</i> Zabhika Dinda Istnaeni and Mukti Zainuddin	171

STATUS KEBERLANJUTAN PERIKANAN BAGAN PERAHU BERBASIS BIO-EKONOMI DI DESA TONIKU KABUPATEN HALMAHERA BARAT (<i>STATUS OF FISHERIES SUSTAINABILITY OF BOAT LIFT NET BASED ON BIO-ECONOMY IN TONIKU VILLAGE WEST HALMAHERA DISTRICT</i>)	Irwan Abdul Kadir, Adi Noman Susanto, Amirul Karman, dan Iinpuspita Ode Ane 181
STUDI KELAYAKAN BUDIDAYA TAMBAK DI LAHAN PESISIR KABUPATEN PURWOREJO (<i>FEASIBILITY STUDY OF AQUCULTURE PONDS IN THE COASTAL AREA OF PURWOREJO DISTRICT</i>)	Anggih Isti Choeronawati, Slamet Budi Prayitno, dan Haeruddin 191
STUDI KOMPARASI METODE MIGRASI SEISMIK DALAM MENGKARAKTERISASI RESERVOIR MIGAS DI BLOK KANGEAN, LAUT BALI MENGGUNAKAN INVERSI IMPEDANSI AKUSTIK BERBASIS MODEL (<i>COMPARATIVE STUDY OF SEISMIC MIGRATION METHOD TO CHARACTERIZE RESERVOIR HYDROCARBON IN KANGEAN BLOCK, BALI SEA USING MODEL BASED ON ACOUSTIC IMPEDANCE INVERSION</i>)	Aditya P. Sidiq, Henry M. Manik, dan Tumpal B. Nainggolan 205
STRUKTUR KOMUNITAS HUTAN MANGROVE PADA KAWASAN MEMPAWAH MANGROVE PARK DI DESA PASIR MEMPAWAH HILIR (<i>COMMUNITY STRUCTURE OF MANGROVE FOREST IN MEMPAWAH MANGROVE PARK AREA OF PASIR VILLAGE MEMPAWAH HILIR</i>)	Amir Suharto Rumalean, Frida Purwanti, Boedi Hendrarto, dan Sahala Hutabarat 221
Guidelines For Writing JITKT	236
Template JITKT	237
Code of Ethics JITKT	243
Accreditation Certificate	247

