Diversity and Density of Pleco (Pterygoplycthys sp) in Ciliwung River, Jakarta Indonesia

by Dewi Elfidasari

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> SEPTEMBER 26-28, 2019 İSTANBUL / TURKEY

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SCIENCES SYMPOSIUM PROCEEDINGS

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BioEco2019



			Day 1 - Thursday, 26 September 2019		
			Conference Hall-İstanlul Balo Salonu		
9 8:00-09:30			Registration of Participants		
19:30-10:00			Coffee Break		
0:00-10:15			Opening Ceremony		
0:15-10:45			Memorial Ceremony for Kapiris Kostas		
0:45-11:15		А	ge determination techniques in the marine gastropods		
1:15-11:45			Diversity and ecology of tardigrades		
1:45-12:15		Climatein	luced changes in population Dynamics in the Mediterranean Sea		
2:15-14:00			Lunch Break		
Theme Se	ction A: Conservation of Biodiversity: Biological and Ecological Aspects in Aquatic Ecosystems	Theme S	ection A: Conservation of Biodiversity: Biological and Ecological Aspects in Aquatic Ecosystems		ection B: Biological and Ecological Aspects in Terrestrial Ecosystems
	Freshwater Ecosystems		Conservation of Biological Diversity	Popula	tion Status, Life Histories, Ecology, Assessment, Conservation and Management of Terrestrial Species
	Conference Hall- Ankara		Conference Hall- Bodrum		Conference Hall- Bursa
Chairman	Dr. Muhanuned Yaşar DÖRTBUDAK	Chairman	Dr. Yusuf Bozkurt	Chairman	Dr. Emire Hmas
1:00-14:15	Freshawater ichthyodiversity in Iran: Past, present and future trends	14:00-14:1	Cryobanks and their role in conservation of aquatic biodiversity	14:00-14:15	How plant strategy types change in coastal wetland from dune to need
	Hanid Reza Esmaeili		<u>Yusuf Bozkurt</u>		12 Emize Elmas , Sevda Türkiş, Barış Bani
4:15-14:30	Diversity and density of Pleco $(Pterygoplycthyssp$.) in Ciiwung River, Jakarta Indonesia	14:15-14:3		14:15-14:30	Study of soil-vegetation relationships of the forest Oaled Bechin (So Ahras) Algéria
	Dewi Elfidasarj, Hurumin Fathonah Muthmainah, Fahma Wijayanti First occurrence of Ligula.sp in endemic cyprinid Ladigesocypris irideus (Ladiges, 1960) From		ArifPamakszz kolation and 16S rRNA sequence analysis of six environmental	_	Ibtissem Samai, Nouha Menad jia
4:30-14:45	Ula Reservoir (Mugla, Turkey)	14:30-14:45	halo versatile bacteria from Çamaltı Saltem	14:30-14:45	Analysis of vegetal biodiversity under saline conditions
	1 <u>Somayeh Doosti</u> Fevzi Yimaz		PmarÇağhyan		Adda Ababou, Abdelkader Bouthiba
4:45-15:00	Relationship of otolith size to standard length of The Prussian Carp Carassius gibelio (Bloch, 1782)in Tigris River, Şamak, Turkey	14:45-15:00	Selective enrichment for clinical strains of Vibrio valnificars based on vitulence correlating gene	14:45-15:00	Biological strategy for the rehabilitation of saline soils in the perspecti of sustainable agricultural development.
	1 Muhammed Yaşar DÖRT BUDA K. Gülnaz ÖZ CAN		Sedat Cam, Rob in Brinkmeyer	1112-12.00	Moulay Belkhodja, Nadia Soualmi
	Relationship of otolith size to standard length of the Capoeta trutta (Heckel, 1843) in Tigris River,		Effect of en viron mental factors on bio film formation by clinical and		The economic value analysis approach to conservation and sustainab
5:00-15:15	Şımak, Turkey Muhanmed Yasar DÖRTBUDAK, Gülnaz ÖZ CAN	15:00-15:15	environmental Vibrio vulnificus strains Sectat Carp, Robin Brinkmeyer	15:00-15:15	use of Biological Diversity: Fritillaria on as a case study Aynur Denir 4
					Securing the production of durum wheat (Triticum durum desf.) by
5:15-15:30	The ancient Lake's Ohrid and Prespa ecological status- a comparative study 14	15:15-15:3		15:15-15:30	supplementary irrigation in the semi-arid zone (south of setif province Almain): create of the bourse alemvaries to Cheniti Khalusag, Guessoum Salma, Djouada Lyamme, Belhaouchet Zu
	Sasho Tajanovski, Biljana B. Gjo 15 on ja Tajanovska, Konstantin Zdraveski				Cheniti Khalissa, Guessoum Salima, Djouada Lyamine, Belhaouchet Zu A bidine, Mansour Lynda-Maya
5:30-16:00	Coffee Break	15:30-16:0	Coffee Break	15:30-16:00	Coffee Break
	Theme Section D: Bioindicators and Biomonitoring		Theme Section E: Biological Diversity: its past and prospects	Theme Sect	tion H: Environmental Management: Renewable Sources, Recycling ar Environmental Management
					Environmental Management
	Conference Hall- Ankara		Conference Hall- Bodrum		Conference Hall- Bursa
hairmen	Dr. Levent Bat	Chairmen	4 Dr. Nuri Başusta	Chairmen	13 Dr. Nurçin Killi
5:00-16:15	Concentrations of toxic elements in massels Myll as gallopr ovincialis as bio-indicator of ecastal pollation Levent Bat	16:00-16:15	Predicting the impact of climate change on yield and water requirement of rainfed crops in set if region (Algeria) <u>Tarek Bouregaa</u>	16:00-16:15	Stakeholder Analysis of The Artificial Reefs in Ednemit Bay (Northern Aegean), Turkey: Contributions to management <u>Sezgin Tunca</u> , Vahdet Ünal, José Luis Sánchez Lizaso
:15-16:30	The Contents of Heavy Metals in Plecostomus (Loricaridae) from the Cilwung River Jakarta, Indonesia	16:15-16:3	A Dileptid Ciliate iso lated From Tekirdağ Soils, Rurik oplites armatus (Foissner & Schade 2000) Ciliophora: Litostomatea, Rhyncostomatia):	16:15-16:30	Analysis of Biodiversity and Ecological Data by R Software Package
0:15-16:30	<u>Iaksmi Nutul Ismi</u> , Dewi Elfidasari, Riris I., Puspitasari, Irawan Sugozo, Afina P., Sabira	0:15-16:3	In faciliature and Mornhometric Characterization <u>Hihl Ural</u> , İsmuil Yıklız, Naciye Gülkız Şenler	16:15-16:30	YusufKunt
	Variable glochidiumprevalence on gills suggests different æsistance potential in fish; a		Diversity and distribution pattern of waterbirds in wetlands of Algerian		Impact of production systems on salt lakes: Case of the complex Chor
6:30-16:45	preliminary evidence in the fish community of a temperate smull stream (Tersakan, Muğla) <u>Fitan Fican</u> , Neslihan Ağıalı, Ali Seman Tarkan	16:30-16:45	steppe region <u>Btay ib Bensaci</u> , Asma Zoubri, Yassine Noudjem, Fateh Mimeche, , Bilal Gasmi and Menouar Saheb	16:30-16:45	Merouane and Melghir (Algeria) <u>Fatma Denmati</u> , Farid Allache, Mounira Zouatine, Naima Mebrek
6:45-17:00	2 Determination of some species of invertebrate on massel culture units in Baliklova, İzmir Bay	16:45-17:0	Distribution of the Genus Gerra Hamilton, 1822 in Anatolia	16:45-17:00	Study approchof a strategy with sustainable development of a Rams site: Case Lake Réghaïa, Algeria
	Serpil SERDAR, A li ULAS, Şükrü YILDIRIM		Cüneyt Kaya, Esra Bayçelebi		2 Mounita Zouatine, Fatma Dermati ⁻ Fatid Allache
			Review of the genus Gobio Cuvier, 1816 in Turkey	17:00-17:15	The Rising Phenomenon in Turkish Marine Protected Areas: Charter Fis
7:00-17:15	Fishing Competitions in Turkey and Focus on Alacati Big Fish Tournament	17:00-17:15			Sezgin Tunca, Vahdet Ünal
7:00-17:15	Fishing Competitions in Turkey and Focus on Alaçati Big Fish Tournament <u>AliUlus,</u> Zeynep Güleşci	17:00-17:15	Esra Baycebbi, <u>Cünevt Kava</u> Biodiversity and Varietal Improvement of Drum Wheat <i>Triticum durum</i>		First Record of the Starfish Asterina phylactica (Echinodermita)
7:00-17:15		17:00-17:15	Biodiversity and Varietal Improvement of Datam Wheat (Triticum durum Des f.)	17:15-17:30	First Record of the Starfish Asterina phylictica (Echinodermata: Asteroidea) from the Eastern Mediterranean
			Biodiversity and Varietal Improvement of Drum Wheat (Triticum durum	17:15-17:30	

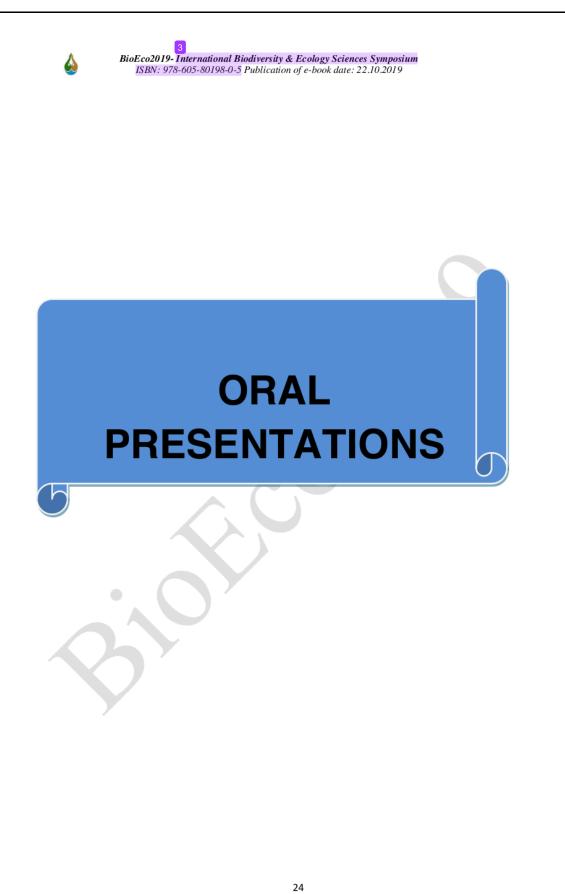
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Theme Se	ction A: Conservation of Biodiversity: Biological and Feological Aspects in Aquatic Feosystems	Theme 5	Section B: Biological and Ecological Aspects in Terrestrial Ecosystems		Theme Section E Biological Diversity: its past and prospects
	Protection and Management of Aquatic Species		Terrestrial ecology and biodiversity in a changing Eurasia		
Thairmen	Conference Hall- Ankara Dr. Halit Filiz	Chairmen	Conference Hall- Bodrum Dr. Güley Kurt	Chairmen	Conference Hall- Bursa Dr. Tevisk Ceshan
	What steps should be taken to ensure the protection of sandbar shark, Carcharhinus plumbeus ,		Plant Biodiversity of the Vark Watershed of Lorestan province, Imn		7 Active biomonitoring of mussels Mytilus galloprovincialis with
:00-09:15	in Turkey ? <u>Halir Filiz,</u> Ertan Taşkavak	09:00-09:1	Hamed Khodavari, Khadijeh Shekari	09:00-09:15	integrated use of micromucleus assay and physiological indices to ass Hamida Gherras, Chafika Hebbar, Mohammed Bouderbala
	Mollose and arthropod shells waste using as qualified materials		Floristic diversity and composition of the Roomeshkan county, Lorestan province, Iran		Monphometric characteristics of <i>patella</i> species in Al-Hanya coas eastern Libya Mediterranean Sea
:15-09:30	Fettah Gündüz, Fatma Öztürk, Hatice Gündüz	09:15-09:3	Hamed Khodayari, Zahra Famjollahi	09:15-09:30	Salleemah Hasan Hamad, Sayed Mohamed Ali, Ramadan A. S. Ali, Er
	Extraction of collagen and gelatine fromin vasive toxic pufferfish specie Lagocephalus scelaratus		Characterization of new strains belonging to the defoliant pathotype of		S. Alfergani Larval Helminths in Helix lucorum Linnaeus, 1758 in Some Regions
:30-09:45	in Mediterranean sea (Iskenderun Bay) and their possible uses in different sectors	09:30-09:48	Verticillium dahliae from the cultivated olive tree in Algeria.	09:30-09:45	Georgia
	Yasmin YILDIZ, Mev Et AKTAŞ Is the Gediz River Basin Suitable for Breeding and Populating of the Red Eared Slider, Trachemys		Benzina-Tihar F., Reghmit A.B., Sahir-Halouane F., Oulebsir-Mohand Kaci		Lela Anbali, Lali Murvanidze, Tsitsino Lonidze, Ketino Nikolaishv
9:45-10:00	scripta elegans? Special emphasis to some Observations on the Overwintering Hatchlings of Ternapins at Western Turkey	09:45-10:0	The species of the genus Calligonum L in the Ustyurt	09;45-10;00	Tempo Zuriation of Gastropoda and Scaphopoda (Mollusca) spec along the Sugözii coast (Iskenderun Bay, Levantine Sea)
	Fran Taşkayak, Ragıp Balath, <u>Halit Filiz</u>	1.2.10.0	Tajetdino ya Dilarom Minajatdino ya a		Bana Bitlis, BilaiÓztürk
			A Phytosociological research on the surroundings of Sürgü Dam(Sürgü/		
0:00-10:15	Attention please! Pinna nobilis in great danger Sch Acarli	0:00-10:1	Doğanşehir/ Malatya) Hatice Tosyagiili Çelik Ömer Fanık Kaya	10:00-10:15	Beneficial Roles of Freshwater Mussels in the Ecosystem Hülya Şereflişan, Ece Kılıç
	Citizen Science Approach in North Macedonia - Protect Rare Snails from Lake Ohrid - an		Take Portagina Cent Onker and Raya		The state of the second
):15-10:30	Inno vative Approach to Biodiversity Conservation Konstantin Zdraveski, Sasho Trajanovski, Biljana B. Gjoreska, Sonja Trajanovska	10:15-10:3		10:15-10:30	
0:30-11:00	Coffee Break	10:30-11:0	Coffee Break	10:30-11:00	Coffee Break
Theme Se	ction A: Conservation of Biodiversity: Biological and Feological Aspects in Aquatic Ecosystems	Theme S	ection A: Conservation of Biodiversity: Biological and Ecological Aspects in Aquatic Ecosystems		Theme Section E Biological Diversity: its past and prospects
_	Population status, life histories, ecology of aquatic species		Population status, life histories , ecology of aquatic species		
	Conference Hall- Ankara		Conference Hall- Bodrum		Conference Hall- Bursa
Thairmen	Dr. Naime Arslan	Chairmen	Dr. Ali Serkan Tarkan	Chairmen	Dr.1.uk as z Kaczmarek
:00-11:15	Levels of some trace elements (cadmium, lead, mercury and chromium) in water and planktonic organisms in Abant Lake (Bolu, Turkey)	11:00-11:1	Annual variation in the abundance of prolaryotic picoplankton (Symechococcus and Prochlorococcus) in the Northeastem	11:00-11:15	Biodiversity and honey bee diseases in Algeria
	2 Tahk Atter Naime Arstan Deniz Mercan	<u> </u>	Ece Kihç, Nebil Yücel, Zah't Uysal		Wahida Loucif-Ayad
:15-11:30	Apr 2 any Observation on Relationships of the Liver, Ovary and Body Weights for Short should seahorse, <i>Hippocampus hippocampus</i> at the Trebola Coasts (Black Sea)	11:15-11:3	A new application of the Micronucleus Test on Zooplankton: fromlab to field	11:15-11:30	Susceptibility of two whitefly (Bemisia tabaci) (Hemipten: Aleyrodi strains to insecticides from Oman
	Sule GURKAN, Bran TASKA VAK, Barcu TAYLAN, Arzu A YDIN UNCUMUSA OGLU		Sabria Baska, Zouhour Ouanes-Ben Othmen, Ab ir Ghash i ¹ Imen Gdara,		Naser Nasser Hamoud Al-Rawahi, Ismail Abdullah Al-Siyabi Riaz Sl
	An investigation on the gravid females and embrivos of Gymnum altavela from Yamuntalk Bight,		Gill Histopathology in the Marine Fish Paetta maxima After Acute		Diversity and host associations of aphid parasitoids (Hymenopten Braconidae: Aphidiinae) in non-cultivated areas of Khenchela Provir
30-11:45	Isken derun Bay (Turkey	11:30-11:48	Exposure to Cpermethrin	11:30-11:45	-East Algeria
	<u>Nuri Başusta</u> , Asiye Başusta Age and Growth of a Mullidae: <i>Mullus har hatus</i> (Linnaeus, 1758) caught in the Algerian West		Seshat Engin Ladigesocypris sp. (Ladiges, 1960- complex current status of knowledge		Hayet Aggoun, Laamari Malik, Tahar chaouche Souad Tiger beetles in the Mediterranean Region - flagship bioindicators
1:45-12:00	Coasts	11:45-12:0	and implications for conservation of these Cyprinids species	11:45-12:00	perfect hot-spot area
	HebbarChafika, Ghernas Hanida		Daniella Giannetto, <u>Somayeh Doosti</u> , Ali Serhan Tarkan, Fevzi Yilmaz		Radomir Jaskała
2:00-12:15	Spatio-temporal variation in distribution and abundance of marine Cladocenans in selation to environmental factors in Güllik Bay (Aegean Sea, SW Turkey)	12:00-12:1		12:00-12:15	Population Dynamsm Of Black Scorpion (Andro ctorus Crassicaud (Olivier, 1807; Scorpiones: Bathidae) In Şanlıurfa Province
	<u>Nurçin Killi</u> , Ali Serhan Tarkan	<u> </u>			Nevin ASLAN, Şahin TOPRAK Study of the Insecticidal Activity of Taxus baccata of the Ifrane val
	The Nutritional Value of Smooth Scallop	2:15-12:3		12:15-12:30	on Sitophilus orygae (L)(Coleoptem: Cusculionidae) Amechiouq Ali, Riffi Ouassima, Elhourri Mohammed, El idrissi Most
2:15-12:30					Flou Jamila
	Pervin Varal, Sefa Acarlı				
2:30-14:00	Lunch Break	12:30-14:0	Lunch Break	12:30-14:00	Lunch Break
2:30-14:00		12:30-14:0	Lunch Break Theme Section E: Biological Diversity: its past and prospects		Lunch Break fion A: Conservation of Biodisersity: Biological and Ecological Aspect Aquatic Ecosystems
2:30-14:00	Lanch Break Section II: Environmental Management: Renewable Sources, Recycling and Environmental	12:30-14:0		Theme Sect	tion A: Conservation of Biodiversity: Biological and Ecological Aspect
2:30-14:00 Theme	Lanch Break Secton II: Environmental Management Removable Sources, Recycling and Endronmental Management and Pollution Presention Environmental Management and Pollution Presention Conference Hall-Ankara		Theme Section E: Biological Diversity: its past and prospects Conference Hall-Bodrum	Theme Sect	ion A; Conversation of Biodi wersity: Biological and Ecological Aspect Aquaté Tico yakans Elerraneun Sei: Past, present and Toture changes of alien species Conference Hall-Hursa
2:30-14:00	Lanch Break Section H. Environmental Management Renovable Sources, Recycling and Basleonmental Management Environmental Management and Pollutian Presention Conference Hall-Ankara D. Rama Kathu	12:30-14:00	Theme Section E: Biological Diversity: its past and prospects Conference Hall- Bodrum Dr. Kerim Cityck	Theme Sect	on A: Conservation of Hiedwrsi ty: Hielogical and Feological Aspect Aquatic Fronyskins Gerenean S oz: Post present and fritter echanges of allen species Conference Hall-Bursa Dr. Famal F. Shakman
2:30-14:00 Theme	Lanch Break Section II: Envisionmental Management, Renoutles Sources, Recycling and Environmental Nanagement Environmental Management and Pollutian Prevention Conference Hall-Ankara Dr. Hann Katul Investigation of Statistical Deprinnent Design Besults of UV Absorbance Values of Alaminan Nanopaticks Of Different Sizes		Theme Section E: Biological Diversity: its past and prospects Conference Hall- Bodram De, Kerim Çiçek Pelimiary Researche on Tardigada Fanna of Meydik Campus (Elskyich, Tanky)	Theme Sect	fon A: Conversation of Biodearaity: Biological and Feological Aspect Aquatic Feosystems Remains on: Past, present and future changes of alien species Conference Hall-Bursa
2:30-14:00 Them Chairman	Lanch Break Section II: Environmental Munagement, Renovalite Sources, Recycling and Environmental Nanagement Environmental Management and Poliutian Prevention Conference Hall-Ankara Dr. Bann Kath Investigation of Statistical Experimental Design Results of UV Absolutace Values of Alaminian Nanopatickis Of Different Sizes Mehmet Atesy, <u>Bann Kuth</u> , Order Akasu, Darah Danaby, Je Ganna Caseb, Chine, Ihay Dind, Boxen Jirot, Pagan	Chairman	Theme Section E: Biological Diversity: its past and prospects Conference Hall - Boleman Do: Kerian Cięck Pelmenry Researches on Tardingude Fanna of Meydik Campus	Theme Sect Med Chairman	fan A. Canversation of Blodi sersity: Biological and Feological Aspect Aquatic Fressystem Revenues Sci ¹⁹ Des presentandificare changes of allen species Conference Halt: Bursa Des Danail F. Shakman Dangen of levasive Fah Species, Pervention and Control Zehn Ann HCEP, Eduk ODDKO
2:30-14:00 Thems Chairman 4:00-14:15	Lanch Break Sreefon HE Environmental Munagement Bennotales Nources, Recycling and Environmental Munagement Environmental Management and Pollution Presention Conference Tails Anhora Dr. Bann Katha Investigation of Statistical Experimental Design Results of UX Absorbance Values of Alaminian Nanoparickis of Different Sizes Mehmer Arey, <u>Hann Katha</u> , Ohor Ahas, Daril Danabay, Jai Canag, Cel-Cimen, Hay Cinal,	Chairman 14:00-14:12	Theme Section E: Biological Diversity: its past and prospects Conference Hall- Bodram De, Kerim Çiçek Pelimiary Researche on Tardigada Fanna of Meydik Campus (Elskyich, Tanky)	Theme Sect Med Chairman 14:00-14:15	on A: Conservation of Biodiversity: Biological and Ecological Aspects Aquatic Ecosystems Berranean S on: Post, present and future changes of allen species Conference Hall-Bursa Dr. Famail F: Shakman Dangen of Invasive Fish Species, Pevention and Control
2:30-14:00 Them Chairman	Lanch Break Steefon HE Environmental Munagement Remonikat Sources, Recycling and Environmental Munagement Environmental Management and Pollution Presention Conference Table Archara Or, Bann Katha Investigation of Statistical Experimental Design Results of UV Absorbance Values of Alaminian Nanoparickis of Offferent Sizes Mehmer Atey, <u>Hurn Ketha</u> , Order Atasu, David Danabay, Jai Canau, Cele-Cimen, Hay Cinal, Broco Fire Tajaan Applied of a new bacterial species isolated from an activated shedge in the deninification	Chairman	Theme Section E: Biological Diversity: its past and prospects Conference Hall- Bodram De: Kerim Citeck Pelmmary Researches on Fording de Fanna of Meyelik Campus (Eiskigchik, Turkey) <u>Naime Archim</u> , Akin Karahasan, Deniz Mesan	Theme Sect Med Chairman	for A: Conversation of Biodiversity: Biological and Ecological Aspect Aquate Free yskems foremanning to the provide stress of allen species Conference Hall-Hursa Tre. Esnañt K: Shakman Dangens of Invasive Fah Species, Parvention and Control Zehn Anno HICER, Edute ODDKKO Adapted Segmass Watch Potecto to valuate Pandonia ocumie
2 :30-1 4:00 Them Chairman 4 :00-1 4:15 4 :15-1 4:30	Lanch Break Section II: Environmental Munagement, Renovalde Sources, Recycling and Environmental Munagement Endrommental Management and Pollutian Prevention Conference Hall-Ankara Dr, Baun Kathi Investigation of Statistical Experimental Design Besults of UV Absolvance Values of Alaminian Nanoquatikos OD/Brean Sizes Mchurdt Ares, <u>Baun Kathi</u> , Order Alasu, Darah Danakoy, Jud Gaung Cach, Chen, Ilay Cind, Baura Irit, Judie Jones Irit, Fajaia, Applied of a new bacterial species isolated Brona an echand sudge in the denirification rementer of the wastware	Chairman 14:00-14:12 14:15-14:3	Theme Section I2 Biological Diversity: its past and prospects Conference Hall-Bolenam Do, Korino Çiçek Pelimmary Researbes on Tadoğuda Fanna Orbeydik Campus (Eikişchik, Turkey) <u>Nuîme Arstan</u> , Akın Karahasan, Deniz Messan Panna listisees oytoxok ily coldative stress and apoptosis in Leydig cells <u>Yanemin filiko Dikkuan</u> , Yasemin Aydan Nocturnal Activity of <i>Anatologican pelicigiana</i> (Mertens, 1999) from	Theme Sect Med Chairman 14:00-14:15 14:15-14:30	on A: Conservation of Biodiversity: Biological and Ecological Aspect Aquatic Franyskins Bierramean S en 29 est, present and future changes of allen species Conference Hall- Barsa Dangen of Invasive Fish Species, Prevention and Control Zehna Aca BECE, Esite ODDKO Adapted Seagnass Wash: Peters to evaluate <i>Problemic oceanic</i> health, in the Eastern Aegean Sea
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ORAL PRESENTATION

Diversity and Density of Pleco (*Pterygoplycthys* sp) in Ciliwung River, Jakarta Indonesia

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Abstract

There has been a lot of information about some species of fishes, plants, insects, planktons, river quality, including heavy metal concentrations from organisms, water and sediment, from some research in Ciliwung River since 2008. But, there is still very limited data that related to the diversity and density of pleco in the Ciliwung River. Pleco is a native species from Costarica, Panama and South America and it's known as an invasive species which is potentially to reduce local biodiversity by eliminating local species of fishes in Ciliwung rivers. The aims of this study is to analyzing the diversity and density of pleco from Ciliwung River in the Jakarta area. Purposive sampling was used with a consideration that the three points represent the presence of pleco. The location of sampling was the Ciliwung river in Jakarta which flows along the Cawang-Condet. Sampling has been done using $4x2 \text{ m}^2$ cast nets with a 2.5-inch mesh size. The sampling activity was carried out in 09.00-15.00 AM. The results showed that the index diversity of pleco in the Ciliwung river in Jakarta was low, which was equal to H'= 0 because there is only one species of pleco was found there, *Pterygoplichthys pardalis*. The population density of pleco in the Ciliwung river in Jakarta was low.

Keywords: *Pterygoplichthys pardalis*, native species, index diversity, population density, Ciliwung river Jakarta

Introduction

Pleco is a suckermouth armored catfish that is found in Ciliwung River in large quantities. It is an introductory species from Costarica, Panama and South America as an object of commercial ornamental fishes in Indon 5 (Zworykin & Budaev, 2013). Pleco is also known as invasive species, which can be predators and competitors of local species (Hill & Lodge, 1999), potentially spread parasites and pathogens in their 5 bitats (Torchin, et al., 2003), can cause unexpected hybridization (Mallet, 2007), and potential to reduce local biodiversity by eliminating local species of fishes (Chapin , *et al.*, 2000).

The decline in number of the fish species in Ciliwung River has been happening since 2009. It is noted that there were found 20 fish species in 1910 on the river. One of the main role factors towards the decline of the fish species in Ciliwung River is the existence of pleco that is relatively able to adapt to the river's condition that is polluted and no other predators that hunt them. Pleco in Ciliwung River is categorized as introduced fish that is able to dominate the river, this is supported by its body morphology structure. It has a flat body, all covered with hard scales but its abdomen, it has a wide head and jaw. The main characteristic of this *loricariidae* group is that they have a sucker mouth. The shape of its mouth and

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lips enable them to feed, breathe, and be attached to an object through sucking. The sucker mouth in pleco enables them to adhere to an object surround them, even on swift stream rivers. Its mouth and lips are also adapted to any kinds of food such as algae, invertebrate, and detritus (Geerinckx, 2007). Pleco has spiky *adifose fin*, wide back fin, and brown or grey body with black spots on its entire body (Kottelat *et al.*, 1993).

Pleco has a high capability of adaptation in Ciliwung River that have high level of pollutin as it has two respiratory systems. Their main respiratory system is the gill that is used when they are in clean water. Another is a labyrinth that enables them to live in low oxygen and polluted water (Graham, 1997). The existence of pleco can be identified from holes in the form of cluster along the slopes of Ciliwung River. The holes are functioned as a place to lay their eggs (Nico *et al.*, 2012).

The diversity of pleco in Ciliwung River has been researched since 2016 using some methods, such as morphology, morphometric, meristic, and molecular analysis (Elfidasari et al. 2016a, Elfidasari et al. 2016b, Qoyyimah et al. 2016, Rosnaeni et al. 2017). From the aforementioned research, there has no data with regards to diversity and density index data of pleco in the areas. Therefore, there is a need to do research to calculate the diversity and density index of pleco in Ciliwung River Jakarta.

Material and Methods

Pleco Sampling at the Ciliwung River Stream Area

Sampling have been done along Cawang-Condet area of Ciliwung River and based on the planned stations. The samples were taken using three repetitions in different weeks. The sample collection used purposive sampling method, a technique to decide samples purposively based on certain considerations. The plecos was collected using nets around $4x2 \text{ m}^2$ with the size of the eye nets is 2,5 inch. The nets were spread in the morning from 09.00-15.00 WIB which was referred by Nico (2010).

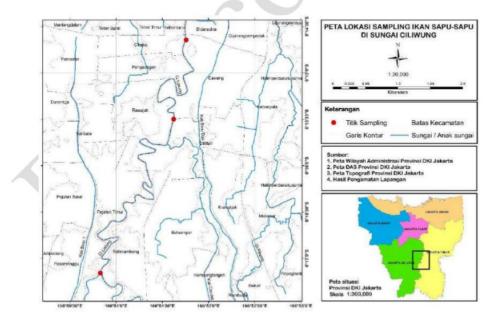


Figure 3. Three observation and sampling station along Cawang-Condet of Ciliwung River

The consideration from this method was the coordinate which represented the existence of pleco based on the information from pleco fishermen and local citizens. There were three observation stations

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from each coordinate, namely S 06.244053°-E 106.862654° at the first station, S 06.25830°-E 106.86040° at the second station and S 06.28599°-E 106.84717° at the third station (Figure 3). The coordinates were determined using purposive sampling method in consideration that samples collection along Cawang-Condet of Ciliwung River is regarded as a higly polluted area. In every coordinate, samples were collected in consideration that the samples caught from the nets were placed in every coordinate.

The Identification of Pleco Species at the River Stream Area of Ciliwung

The identification has been done at the Center of Integrated Laboratory UIN Syarif Hidayatullah Jakarta by identifying morphology characteristics of pleco that have been caught by the nets. The specimen was preserved in an 70% alcohol solution. The specimen labels used its scientific names, its caught places, and its collection dates. The identification of pleco specimen at the River Stream Area of Ciliwung used some methods by looking at the patterns of head, lateral, and abdomen. This research was conducted by looking at the pattern of its abdomen which is the salient morphology characteristic of pleco. This happens because the samples have spots patterns or vermicularis on its ventral (Armbruster & Page, 2006). The pleco species identification refer to the book of fish identification from Kottelat *et al.*, (1993) and other secondary data from scientific journals.

The Diversity of Pleco Types at the River Stream Area of Ciliwung

The relationship between the number of types and individuals can be stated in Diversity Index. To determine the fish diversity, Shannon-Wiener index was employed (Ludwig dan Reynold, 1988): H' = $-\Sigma$ pi ln pi

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The Density of Pleco at the River Stream Area of Ciliwung

The density of pleco is calculated using the following formula (Barus, 2004):

Di = Xi / Ni

Notes: Di = Density (individual/m) Xi = Total number of individual

Ni = Total number of area

Results

The diversity index calculation result towards 1.401 plecos gained from the three locations at Ciliwung River, resulted in the value of H' equal to 0 (zero). It can be stated that the diversity of pleco in Ciliwung River is low. The Diversity Index (H') is categorized low if, based on the identification result, it is only found one species of pleco in the three locations along the river stream area of Ciliwung River in Jakarta, namely *Pterygoplichthys pardalis*.

Morphologically, pleco's abdomen has big white spots pattern with merged patterns that are attached together to its sucker-mouth beneath (Page & Robins, 2006). Rosnaeni, et al. (2017) research is a

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DNA analysis of *barcodes* CO1 in the fragment's length of 650bp supports the identification result of *Pterygoplichthys pardalis*, that even though there are diverse abdomen patterns of the found plecos, all is from one species that is *P. pardalis*.

Identification result of the abdomen pattern on plecos from the three locations of Ciliwung River shows matched result with the research conducted by Wu *et al.* (2011). The pleco species in Indonesia has a different abdomen pattern. *P. pardalis* has black spots abdomen pattern (in the shape of commas or dots), *P. disjunctivus* has curved patterns, meanwhile the inter-grade species has a combination pattern between inter-grade or hybrid species. The three different patterns of the abdomen can be characterized as one type of pleco in the family of *Loricariidae* that is *P. Pardalis*.

Two different patterns on its head (geometrical light stripes pattern and spots and blotches patterns) that could be identified by Armbruster and Page (2006) show that the two characteristics are the morphological characteristics of *P. Pardalis* species. The difference in the two lateral patterns (merged patterns forming chevrons (<) and separated patterns and do not create *chevrons*) also shows the morphological characteristic of *P. Pardalis* species. The result is supported by a statement that the different patterns between the abdomen patterns on pleco are not the main characters to identify the type of pleco (Rosnaeni, et al., 2017).

Density of pleco population in Ciliwung River in the three locations results in different values. At the first station, it has the density value of 58 ind/m², at the second station it has the density value of 80 ind/m² and at the third station it has the density value of 36 ind/m². The average number of pleco density population in Ciliwung River is 58 individu/m². This shows that the density of pleco in this research is higher than the number of population that was found in Halwa's research (2016) that was 22 individuals.

The biggest density value was found at the second station that is around 80 ind/m², meanwhile the lowest is at the third station for only 36 ind/m². The biggest density value at the second station is caused by the number of individual species of *Poecilia reticulate* and *Mystacoleucus marginatus* is lower than the number of individuals at the first and the third stations. It is caused by the interaction between pleco and the species of *Poecilia reticulate* and *Mystacoleucus marginatus*. An interaction occurred in a population can be in the form of competition if among organisms from the same or different type use the same resource. If an organism uses the same resources, then every organism has to compete to feed themselves to survive and to grow.

The abundant number of pleco in Ciliwung River is probably due to an excellent interspecific competition in taking advantages of food resources with other fish in Ciliwung River such as *Poecilia reticulate* and *Mystacoleucus marginatus*. Supported with a statement coming from Josefsson and Andersson (2001), the aggressive characteristic to get food performed by *Pterygoplichthys pardalis* when they were present at certain locations so that they could change another community in a water area may cause the decline of fish and invertebrate populations.

According to De-Merona (2004), the fish population number is also affected by the number of food resources in the water. Pambudi et al (2016) states that there are 5.834 individuals of phytoplankton. This shows that the fish population in every station is influenced by the existence of phytoplankton in Ciliwung River. The biggest population number is gained at the second station for 80 ind/m² because the water condition is at its optimum point for the life of phytoplankton. The condition is influenced by the speed of the stream. At the second station, the speed of the stream is found lower than the first and third stations. According to (1988) a water area that is relatively placid is suitable for the habitat of phytoplankton. For the number of stream speed at the second station, it has a relatively placid stream. A research by Pambudi, et al. (2016) figures out that most phytoplantons in Ciliwung River are highly-tolerated phytoplankton such as *Navicula*, *Nitzschia*, *Synedra*, *Cymbella*, and *Fragilaria*.

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According to Krebs (1972), the existence of a fish in a water area is heavily influenced by the presence of predators. The pleco's body has several adaptations to predators that have hard bones and are able to regenerate its pectoral, so that pleco is not hunted by other fish living in Ciliwung River and become the competitor by original fish to get some food, additionally to its life cycle (Sinha, et al., 2010). The research results of Rice *et al.* (2007) and Power (1984) state that a predator from *P. pardalis* species is not from other fish type but from reptiles such as snakes and freshwater turtles, birds, and also human (Aguiar & Di-Beernardo, 2004) (Bonino *et al.*, 2009) (Nico, 2010).

The cause of the high density of pleco for 80 ind/m² in Ciliwung River at the second station is because few local people along the riverbank to do activities of fishing or catching fishes compared to the first and third stations. For instance, the act of catching fish commercially to invasive fish of *Pterois volitans* has proven to help inhibit the *Pterois volitans* fish population growth (Barbour *et al.*, 2011).

Cause of the high density of pleco in Ciliwung River at the third station is the low number of predator individuals. It is proven by a research by Rusmendero, et al (2009) that describes no finding of bird prey based on the composition analysis of bird types at Kalibata Station and at other stations in South Jakarta. The low number of pleco predators at the three stations enable pleco at the third station to have high density.

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Conservation of Biological Diversity Conference Hall- Ankara Conference Hall-Bodrum Chairman Dr. MuhammedYaşar DÖRTBUDAK Chairman Dr. Yusuf Bozkurt 14:00-14:15 Freshawater ichthyodiversity in Iran: Past, present and future trends Hamid Reza Esmaeili 14:00-14:15 Cryobanks and their role in conservation of aquatic biodiversity Yusuf Bozkurt 14:15-14:30 Diversity and density of Pleco (Pterygoplycthys sp.) in Ciliwung River, Jakarta Indonesia Determination of genetic variations of Carasobarbus luteus populations 14:15-14:30 living in Euphrates River based on mitochondrial DNA cyt b sequences Dewi Elfidasari, Hurunin Fathonah Muthmainah, Fahma Wijayanti Arif Parmaksız First occurrence of Ligula. sp in endemic cyprinid Ladigesocypris irideus (Ladiges, 1960) From Isolation and 16S rRNA sequence analysis of sixenvironmental 14:30-14:45 Ula Reservoir (Mugla, Turkey) 14:30-14:45 haloversatile bacteria fromÇamaltı Saltern Somayeh Doosti, Fevzi Yılmaz Pınar Çağlayan Relationship of otolith size to standard length of The Prussian Carp Carassius gibelio (Bloch, Selective enrichment for clinical strains of Vibrio vulnificus based on 14:45-15:00 1782) in Tigris River, Şırnak, Turkey 14:45-15:00 virulence correlating gene Muhammed Yaşar DÖRTBUDAK, Gülnaz ÖZCAN Sedat Çam, Robin Brinkmeyer <u>Relationship of otolith size to</u> standard length of the Capoeta trutta (Heckel, 1843) in Tigris River, Effect of environmental factors on biofilmformation by clinical and 15:00-15:15 Sırnak, Turkey 15:00-15:15 environmental Vibrio vulnificus strains Muhammed Yaşar DÖRTBUDAK, Gülnaz ÖZCAN Sedat Çam, Robin Brinkmeyer 15:15-15:30 The ancient Lake's Ohrid and Prespa ecological status- a comparative study Sasho Trajanovski, Biljana B. Gjoreska, Sonja Trajanovska, Konstantin Zdraveski 15:15-15:30 15:30-16:00 Coffee Break 15:30-16:00 Coffee Break Theme Section D: Bioindicators and Biomonitoring Theme Section E: Biological Diversity: its past and prospects Theme Section B: Biological and Ecological Aspects in Terrestrial Ecosystems Population Status, Life Histories, Ecology, Assessment, Conservation and Management of Terrestrial Species Conference Hall- Bursa Chairman Dr. Emire Elmas 14:00-14:15 How plant strategy types change in coastal wetland fromdune to reeds? Emire Elmas, Sevda Türkiş, Barış Bani 14:15-14:30 Study of soil-vegetation relationships of the forest Ouled Bechih (Souk Ahras) Algéria IbtissemSamai, Nouha Menadjlia 14:30-14:45 Analysis of vegetal biodiversity under saline conditions Adda Ababou, Abdelkader Bouthiba 14:45-15:00 Biological strategy for the rehabilitation of saline soils in the perspective of sustainable agricultural development. Moulay Belkhodja, Nadia Soualmı 15:00-15:15 The economic value analysis approach to conservation and sustainable use of Biological Diversity: Fritillaria sp as a case study Aynur Demir 15:15-15:30 Securing the production of durumwheat (Triticum durum desf.) by supplementary irrigation in the semi-arid zone (south of setif province, Algeria): case of the bousselemvariety Cheniti Khalissa, GuessoumSalima, Djouada Lyamine, Belhaouchet Zine Abidine, Mansour Lynda-Maya 15:30-16:00 Coffee Break Theme Section H: Environmental Management: Renewable Sources, Recycling and Environmental Management Environmental Management Conference Hall- Ankara Conference Hall- Bodrum Conference Hall- Bursa Chairmen Dr. Levent Bat Chairmen Dr. Nuri Başusta Chairmen Dr. Nurçin Killi Concentrations of toxic elements in mussels Mytilus galloprovincialis as bio-indicator of coastal Predicting the impact of climate change on yield and water requirement of Stakeholder Analysis of The Artificial Reefs in Edremit Bay (Northern 16:00-16:15 pollution 16:00-16:15 rainfed crops in setif region (Algeria) 16:00-16:15 Aegean), Turkey: Contributions to management Levent Bat Tarek Bouregaa Sezgin Tunca, Vahdet Ünal, José Luis Sánchez Lizaso The Contents of Heavy Metals in Plecostomus (Loricariidae) fromthe Ciliwung River Jakarta, A Dileptid Ciliate Isolated FromTekirdağ Soils, Rurikoplites armatus Analysis of Biodiversity and Ecological Data by R Software Packages 16:15-16:30 Indonesia 16:15-16:30 (Foissner & Schade 2000) Ciliophora: Litostomatea, Rhyncostomatia): Infraciliature and Morphometric Characterization 16:15-16:30 Laksmi Nurul Ismi, Dewi Elfidasari, Riris L. Puspitasari, Irawan Sugoro, Afina P. Sabira Hilal Ural, İsmail Yıldız, Naciye Gülkız Şenler Yusuf Kurt Variable glochidiumprevalence on gills suggests different resistance potentialin fish:a Diversity and distribution pattern of waterbirds in wetlands of Algerian Impact of production systems on salt lakes: Case of the complexChott 16:30-16:45 preliminary evidence in the fish community of a temperate smallstream(Tersakan, Muğla) 16:30-16:45 steppe

region 16:30-16:45 Merouane and Melghir (Algeria) Ertan Ercan, Neslihan Ağralı, Ali Serhan Tarkan Ettayib Bensacı, Asma Zoubırı, Yassine Nouıdjem, Fateh Mimeche, , Bilal Gasmi and Menouar Saheb Fatma Demnati, Farid Allache, Mounira Zouatine, Naima Mebrek 16:45-17:00 Determination of some species of invertebrate on mussel culture units in Balıklıova, İzmir Bay 16:45-17:00 Distribution of the Genus Garra Hamilton, 1822 in Anatolia 16:45-17:00 Study approchof a strategy with sustainable development of a Ramsar site: Case Lake Réghaïa, Algeria 17:00-17:15 17:15-17:30 Serpil SERDAR, Ali ULAŞ, Sükrü YILDIRIM Fishing Competitions in Turkey and Focus on AlacatıBig Fish Tournament AliUlaş, Zeynep Güleşci Dinner Cüneyt Kaya, Esra Bayçelebi 17:00-17:15 Review of the genus Gobio Cuvier, 1816 in Turkey Esra Baycelebi, Cüneyt Kaya Biodiversity and Varietal Improvement of DrumWheat (Triticum durum 17:15-17:30 Desf.) Yamina Bouatrous Dinner 17:00-17:15 17:15-17:30 Mounira Zouatine, Fatma Demnati, Farid Allache The Rising Phenomenon in Turkish Marine Protected Areas: Charter Fishing Sezgin Tunca, Vahdet Ünal First Record of the Starfish Asterina phylactica (Echinodermata: Asteroidea) fromthe Eastern Mediterranean Ayşenur UYSAL, Ertan DAĞLI, Alper DOĞAN Dinner Theme Section A: Conservation of Biodiversity: Biological and Ecological Aspects in Aquatic Ecosystems Protection and Management of Aquatic Species Conference Hall- Ankara Chairmen Dr. Halit Filiz What steps should be taken to ensure the protection of sandbar shark, Carcharhinus plumbeus, 09:00-09:15 in Turkey ? Halit Filiz, Ertan Taskavak Mollusc and arthropod shells waste using as qualified materials 09:15-09:30 Fettah Gündüz, Fatma Öztürk, Hatice Gündüz Extraction of collagen and gelatine frominvasive toxic pufferfish specie Lagocephalus scelaratus 09:30-09:45 in Mediterranean sea (Iskenderun Bay) and their possible uses in different sectors Yasmin YILDIZ, Mevlüt AKTAŞ Is the Gediz River Basin Suitable for Breeding and Populating of the Red Eared Slider, Trachemys scripta elegans ? Special emphasis to some Observations on the Overwintering Hatchlings of 09:45-10:00 Terrapins at Western Turkey Ertan Taşkavak, Ragıp Balatlı, Halit Filiz 10:00-10:15 Attention please! Pinna nobilis in great danger Sefa Acarlı Citizen Science Approach in North Macedonia -Protect Rare Snails fromLake Ohrid - an 10:15-10:30 Innovative Approach to Biodiversity Conservation Konstantin Zdraveski, Sasho Trajanovski, Biljana B. Gjoreska, Sonja Trajanovska 10:30-11:00 Coffee Break Theme Section A: Conservation of Biodiversity: Biological and Ecological Aspects in Aquatic Ecosystems Population status, life histories, ecology of aquatic species Conference Hall- Ankara Chairmen Dr. Naime Arslan Levels of some trace elements (cadmium, lead, mercury and chromium) in water and planktonic 11:00-11:15 organisms in Abant Lake (Bolu, Turkey) Tahir Atıcı, Naime Arslan, Deniz Mercan A preliminary Observation on Relationships of the Liver, Ovary and Body Weights for Short 11:15-11:30 snouted seahorse, Hippocampus hippocampus at the Tirebolu Coasts (Black Sea) Sule GURKAN, Ertan TASKAVAK, Burcu TAYLAN, Arzu AYDIN UNCUMUSAOGLU An investigation on the gravid females and embriyos of Gymnura altavela fromYumurtalik Bight, 11:30-11:45 Iskenderun Bay (Turkey Nuri Başusta, Asiye Başusta Age and Growth of a Mullidae: Mullus barbatus (Linnaeus, 1758) caught in the Algerian West 11:45-12:00 Coasts Hebbar Chafika, Gherras Hamida Spatio-temporal variation in distribution and abundance of marine Cladocerans in relation to 12:00-12:15 environmental factors in Güllük Bay (Aegean Sea, SW Turkey) Nurcin Killi, Ali Serhan Tarkan The Nutritional Value of Smooth Scallop 12:15-12:30 Pervin Vural, Sefa Acarlı 12:30-14:00 Lunch Break Theme Section H: Environmental Management: Renewable Sources, Recycling and Environmental Management Environmental Management and Pollution Prevention Conference Hall- Ankara Chairman Dr. Banu Kutlu Investigation of Statistical Experimental Design Results of UVAbsorbance Values of Aluminium 14:00-14:15 Nanoparticles of Different Sizes Mehmet Ates, Banu Kutlu, Önder Aksu, Durali Danabaş, İşil Canan Çicek-Çimen, İlkay Ünal, Burcu Ertit Taştan Applied of a new bacterial species isolated froman activated sludge in the denitrification 14:15-14:30 treatment of the wastewater Yassmina Angar, Salima Gana-Kebbouche, Nacer-Eddine Djelali, Souad Talbi-Khemili 14:30-14:45 The Effect of Remote Monitoring Methods in The Fight Against Marine Pollution SebnemErkebay, CemErkebay Analysis and Comparison of Risk Factors In The Installation And Design of Potable Water 14:45-15:00 Treatment Plants SebnemErkebay, CemErkebay, Arzu Morkoyunlu Yüce Investigation of the

effects of Giardia lamblia and Cryptosporidiumparvumon environmental 15:00-15:15 pollution by real-time PCR in horse farms in Southeastern Anatolia Akin Yiğin, Mehmet Demirci, Hikmet Dinç 15:15-15:30 15:30-16:00 Coffee Break Theme Section H: Environmental Management: Renewable Sources, Recycling andEnvironmental Management Environmental Management Conference Hall-Ankara Chairmen Dr .Zafer Tosunoğlu The semi-electronic fish auction: an innovation, developed by Urla-Iskele (Izmir, Turkey) Fishery 16:00-16:15 Cooperative Kaan Taşkan, Okan Akyol, Zafer Tosunoğlu 16:15-16:30 Comparison of Turkish and EU legislation for fishing gear used in small-scale fishery Zafer Tosunoğlu, Harun Güçlüsoy Slipping practises in Turkish purse seine fishery 16:30-16:45 Zafer Tosunoğlu, Nazlı Kasapoğlu 16:45-17:00 Analysis of the small-scale fisheries landings in the Foca MPA (Turkey) for the second half of Harun Güçlüso1y9,9Z0safer Tosunoğlu 17:00-17:15 Analysis of the trawl landings in Foça (Turkey) for the second half of 1990s Harun Güçlüsoy, Zafer Tosunoğlu 17:15-17:30 17:30-18:00 Coffee Break Conference Hall- İstanbul Balo Salonu Day 2 - Friday, 27 September 2019 Theme Section B: Biological and Ecological Aspects in Terrestrial Ecosystems Terrestrial ecology andbiodiversity in a changing Eurasia Conference Hall- Bodrum Chairmen Dr. Güley Kurt Plant Biodiversity of the Vark Watershed of Lorestan province, Iran 09:00-09:15 Hamed Khodayari, Khadijeh Shekari Floristic diversity and composition of the Roomeshkan county, Lorestan 09:15-09:30 province, Iran Hamed Khodayari, Zahra Farajollahi Characterization of new strains belonging to the defoliant pathotype of 09:30-09:45 Verticillium dahliae from the cultivated olive tree in Algeria. Benzina- Tihar F., Reghmit AB., Sahir-Halouane F., Oulebsir-Mohand Kaci H The species of the genus CalligonumL. in the Ustyurt 09:45-10:00 Tajetdinova DilaromMnajatdinovna A Phytosociological research on the surroundings of Sürgü Dam(Sürgü / 10:00-10:15 Doğanşehir / Malatya) Hatice Tosyaqülü Çelik, Ömer Faruk Kaya 10:15-10:30 10:30-11:00 Coffee Break Theme Section A: Conservation of Biodiversity: Biological andEcological Aspects in Aquatic Ecosystems Population status, life histories, ecology of aquatic species Conference Hall- Bodrum Chairmen Dr. Ali Serkan Tarkan Annual variation in the abundance of prokaryotic picoplankton 11:00-11:15 (Synechococcus and Prochlorococcus) in the Northeastern Ece Kılıç, MNeebdiilt Yerüracneel, aZnahit Uysal A new application of the Micronucleus Test on Zooplankton: fromlab to 11:15-11:30 field Sabria Barka, Zouhour Ouanes-Ben Othmen, Abir Gharbi1 Imen Gdara, Gill Histopathology in the Marine Fish Psetta maxima After Acute 11:30-11:45 Exposure to Cpermethrin Serhat Engin Ladigesocypris sp. (Ladiges, 1960= complex: current status of knowledge 11:45-12:00 and implications for conservation of these Cyprinids species Daniella Giannetto, Somayeh Doosti, Ali Serhan Tarkan, Fevzi Yılmaz 12:00-12:15 12:15-12:30 12:30-14:00 Lunch Break Theme Section E: Biological Diversity: its past and prospects Conference Hall- Bodrum Chairman Dr. Kerim Çiçek Preliminary Researches on Tardigrada Fauna of Meşelik Campus 14:00-14:15 (Eskişehir, Turkey) Naime Arslan, Akın Karahasan, Deniz Mercan Furan induces cytotoxicity, oxidative stress and apoptosis in Leydig cells 14:15-14:30 Yasemin Ülkü Dikbasan, Yasemin Aydın Nocturnal Activity of Anatololacerta pelasgiana (Mertens, 1959) from 14:30-14:45 Çığlıkara Nature Reserve, Antalya, Turkey Batuhan Yaman YAKIN, KerimÇiçek, Murat Afsar, Cemal Varol TOK Another Case of Piebaldismin Blanus strauchi (Bedriaga, 1884) fromKas, 14:45-15:00 Turkey Batuhan Yaman Yakın, Ulvi KeremGünay, KerimÇiçek, Dinçer Ayaz, Cemal Varol Tok An Investigation of How Aquatic Beetles (Arthropoda: Insecta) Effect on 15:00-15:15 Water Quality of Riva Stream(Istanbul) Nilay Dökümcü, Serap Koşal Şahin 15:15-15:30 15:30-16:00 Coffee Break Theme Section A: Conservation of Biodiversity: Biological and Ecological Aspects in Aquatic Ecosystems Tell the Black Sea: from individuals to Ecosystems Conference Hall- Bodrum Chairmen Dr. Derya Ürkmez The first Xennella Cobb, 1920 (Nematoda: Xenellidae) specimen fromthe 16:00-16:15 Black Sea Derya Ürkmez Effects of Astaxanthine, Canthaxanthin and Lycopene Containing Diets 16:15-16:30 on the Chemical Quality and Textural Properties of the Black Sea Trout (Salmo labrax) Fillets EkremCemCankırılıgil, Nermin Berik Pattern of Lingulodinium polyedra cyst distribution in the Black Sea 16:30-16:45 Nina Dzhembekova, Fernando Rubino, Snejana Moncheva, Nataliya Slabakova, Petya Ivanova, Elitsa Stefanova 16:45-17:00 Penetration of the Pacific Korean rockfish Sebastes schlegelii into

the Evgeniia Karpova,Igor BTlaamckoySkeian, Vyacheslav Kuleshov 17:00-17:15 17:15-17:30 17:30-18:00 Coffee Break Conference Hall- İstanbul Balo Salonu Theme Section E: Biological Diversity: its past andprospects Conference Hall- Bursa Chairmen Dr. Tevfik Ceyhan <u>Active biomonitoring of mussels</u> <u>Mytilus galloprovincialis with</u> 09:00-09:15 <u>integrated use of micronucleus assay</u> <u>and physiological indices to assess Hamida Gherras</u>,

ChahfiakraboHrepboblalur,tiMonohammed Bouderbala Morphometric characteristics of patella species in Al-Hanya coast, 09:15-09:30 eastern Libya Mediterranean Sea Salleemah Hasan Hamad, Sayed Mohamed Ali, Ramadan A. S. Ali, Eman S. Alfergani Larval Helminths in Helix lucorum Linnaeus, 1758 in Some Regions of 09:30-09:45 Georgia Lela Arabuli, Lali Murvanidze , Tsitsino Lomidze, Ketino Nikolaishvili, Temporal variation of Gastropoda and Scaphopoda (Mollusca) species 09:45-10:00 along the Sugözü coast (Iskenderun Bay, Levantine Sea) Banu Bitlis, Bilal Öztürk 10:00-10:15 Beneficial Roles of Freshwater Mussels in the Ecosystem Hülya Şereflişan, Ece Kılıç 10:15-10:30 10:30-11:00 Coffee Break Theme Section E: Biological Diversity: its past and prospects Conference Hall- Bursa Chairmen Dr.Łukasz Kaczmarek 11:00-11:15 Biodiversity and honey bee diseases in Algeria Wahida Loucif-Ayad Susceptibility of two whitefly (Bemisia tabaci) (Hemiptera: Aleyrodidae) 11:15-11:30 strains to insecticides fromOman Naser Nasser Hamoud Al-Rawahi, Ismail Abdullah Al-Siyabi, Riaz Shah Diversity and host associations of aphid parasitoids (Hymenoptera: 11:30-11:45 Braconidae: Aphidiinae) in non-cultivated areas of Khenchela Province –East Algeria Hayet Aggoun,Laamari Malik,Tahar chaouche Souad Tiger beetles in the Mediterranean Region – flagship bioindicators in 11:45-12:00 perfect hot-spot area Radomir Jaskuła Population DynamismOf Black Scorpion (Androctonus Crassicauda 12:00-12:15 (Olivier, 1807; Scorpiones: Buthidae) İn Şanlıurfa Province Nevin ASLAN, Sahin TOPRAK Study of the Insecticidal Activity of Taxus baccata of the Ifrane valley 12:15-12:30 on Sitophilus oryzae (L.) (Coleoptera: Curculionidae) Amechroug Ali, Riffi Ouassima, Elhourri Mohammed, El idrissi Mostafa, Fliou Jamila 12:30-14:00 Lunch Break Theme Section A: Conservation of Biodiversity: Biological and Ecological Aspects in Aquatic Ecosystems Mediterranean Sea: Past, present andfuture changes of alien species Conference Hall- Bursa Chairman Dr. Esmail E. Shakman Dangers of Invasive Fish Species, Prevention and Control 14:00-14:15 Zehra Arzu BECER, Edafe ODIOKO Adapted Seagrass Watch Protocol to evaluate Posidonia oceanica 14:15-14:30 health, in the Eastern Aegean Sea Clara Gütte, Sarah Meek, Ute Hansen, Anastasia Miliou 14:30-14:45 The importance of Sipuncula species in marine ecosystems Sermin Acik Sipunculans associated with Posidonia oceanica (L.) Delile 1813 in Izmir 14:45-15:00 Bay (Aegean Sea, Eastern Mediterranean) Sermin Acik Marine Parasites Gnathia sp (Gnathiidae) of the Libyan fishes along the 15:00-15:15 western coast of Libya Sarah ben Zeglam, Esmail A. Shakman The role of constructed wetlands in conservation of biodiversity; A case 15:15-15:30 study on birds diversity in Al-Hadba treatment plant, Libya Aya ALGADRY, Esra'a DORMAN, EssamBOURASS and Khaled 15:30-16:00 CoEfTfeAeYBErBeak Chairmen 16:00-16:15 16:15-16:30 16:30-16:45 16:45-17:00 17:00-17:15 17:15-17:30 17:30-18:00 Coffee Break 18:00-19:00 Conclusion Meeting 18:00-19:00 Conclusion Meeting 18:00-19:00 Conclusion Meeting Dinner Dinner Dinner 9:30-14:00 BioEco2019 Day 3 -SatuIrsdtaanyb,u2l8BSoespptheo1mubr7eurs 2C0r1u9ise 2019 Istanbul / Turkey Leaving Istanbul ORAL PRESENTATIONS ORAL PRESENTATION Diversity and Density of Pleco (Pterygoplycthys sp) in Ciliwung River, Jakarta Indonesia Dewi Elfidasari1*, Hurunin Fathonah Muthmainah2, Fahma Wijayanti2 1Department of Biology, Faculty of Science and Technology, University of Al Azhar Indonesia., Jl. Sisingamangaraja Kebayoran Baru, Jakarta Selatan 12110, Indonesia. 2Departement of Biology, Science and Technology Faculty Syarif Hidayatullah State Islamic University Jakarta, Jl Ir. H. Juanda No. 95 Cempaka Putih <u>Ciputat</u> Timur Tangerang <u>Selatan</u> *Corresponding author: d_elfidasari@uai.ac.id Phone: +82 2172792753 ext 212 Abstract There has been a lot of information about some species of fishes, plants, insects, planktons, river quality, including heavy metal concentrations from organisms, water and sediment, from some research in Ciliwung River since 2008. But, there is still very limited data that related to the diversity and density of pleco in the Ciliwung River. Pleco is a native species from Costarica, Panama and

South America and it's known as an invasive species which is potentially to reduce local biodiversity by eliminating local species of fishes in Ciliwung rivers. The aims of this study is to analyzing the diversity and density of pleco from Ciliwung River in the Jakarta area. Purposive sampling was used with a consideration that the three points represent the presence of pleco. The location of sampling was the Ciliwung river in Jakarta which flows along the Cawang-Condet. Sampling has been done using 4x2 m2 cast nets with a 2.5inch mesh size. The sampling activity was carried out in 09.00-15.00 AM. The results showed that the index diversity of pleco in the Ciliwung river in Jakarta was low, which was equal to H'= 0 because there is only one species of pleco was found there, Pterygoplichthys pardalis. The population density of pleco in the Ciliwung river in Jakarta was 58 individuals/m2. Keywords: Pterygoplichthys pardalis, native species, index diversity, population density, Ciliwung river Jakarta Introduction Pleco is a suckermouth armored catfish that is found in Ciliwung River in large quantities. It is an introductory species from Costarica, Panama and South America as an object of commercial ornamental fishes in Indonesia (Zworykin & Budaev, 2013). Pleco is also known as invasive species, which can be predators and <u>competitors of</u> local <u>species (Hill & Lodge, 1999)</u>, potentially spread parasites and pathogens in their habitats (Torchin, et al., 2003), can cause unexpected hybridization (Mallet, 2007), and potential to reduce local biodiversity by eliminating local species of fishes (Chapin, et al., 2000). The decline in number of the fish species in Ciliwung River has been happening since 2009. It is noted that there were found 20 fish species in 1910 on the river. One of the main role factors towards the decline of the fish species in Ciliwung River is the existence of pleco that is relatively able to adapt to the river's condition that is polluted and no other predators that hunt them. Pleco in Ciliwung River is categorized as introduced fish that is able to dominate the river, this is supported by its body morphology structure. It has a flat body, all covered with hard scales but its abdomen, it has a wide head and jaw. The main characteristic of this loricariidae group is that they have a sucker mouth. The shape of its mouth and lips enable them to feed, breathe, and be attached to an object through sucking. The sucker mouth in pleco enables them to adhere to an object surround them, even on swift stream rivers. Its mouth and lips are also adapted to any kinds of food such as algae, invertebrate, and detritus (Geerinckx, 2007). Pleco has spiky adifose fin, wide back fin, and brown or grey body with black spots on its entire body (Kottelat et al., 1993). Pleco has a high capability of adaptation in Ciliwung River that have high level of pollutin as it has two respiratory systems. Their main respiratory system is the gill that is used when they are in clean water. Another is a labyrinth that enables them to live in low oxygen and polluted water (Graham, 1997). The existence of pleco can be identified from holes in the form of cluster along the slopes of Ciliwung River. The holes are functioned as a place to lay their eggs (Nico et al., 2012). The diversity of pleco in Ciliwung River has been researched since 2016 using some methods, such as morphology, morphometric, meristic, and molecular analysis (Elfidasari et al. 2016a, Elfidasari et al. 2016b, Qoyyimah et al. 2016, Rosnaeni et al. 2017). From the aforementioned research, there has no data with regards to diversity and density index data of pleco in the areas. Therefore, there is a need to do research to calculate the diversity and density index of pleco in Ciliwung River Jakarta. Material and Methods Pleco Sampling at the Ciliwung River Stream Area Sampling have been done along Cawang-Condet area of Ciliwung River and based on the planned stations. The samples were taken using three repetitions in different weeks. The sample collection used purposive sampling method, a technique to decide samples purposively based on certain considerations. The plecos was collected using nets around 4x2 m2 with the size of the eye nets is 2,5 inch. The nets were spread in the morning from 09.00-15.00 WIB which was refered by Nico (2010). Figure 3. Three observation and sampling station along Cawang-Condet of Ciliwung River The consideration from this method was the coordinate which represented the existence of pleco based on the information from pleco fishermen and local citizens. There were three observation stations from each coordinate, namely S 06.244053°-E 106.862654° at the first station, S 06.25830°-E 106.86040° at the second station and S 06.28599°-E 106.84717° at the third station (Figure 3). The coordinates were determined using purposive sampling method in consideration that samples collection along

Cawang- Condet of Ciliwung River is regarded as a higly polluted area. In every coordinate, samples were collected in consideration that the samples caught from the nets were placed in every coordinate. The Identification of Pleco Species at the River Stream Area of Ciliwung The identification has been done at the Center of Integrated Laboratory UIN Syarif Hidayatullah Jakarta by identifying morphology characteristics of pleco that have been caught by the nets. The specimen was preserved in an 70% alcohol solution. The specimen labels used its scientific names, its caught places, and its collection dates. The identification of pleco specimen at the River Stream Area of Ciliwung used some methods by looking at the patterns of head, lateral, and abdomen. This research was conducted by looking at the pattern of its abdomen which is the salient morphology characteristic of pleco. This happens because the samples have spots patterns or vermicularis on its ventral (Armbruster & Page, 2006). The pleco species identification refer to the book of fish identification from Kottelat et al., (1993) and other secondary data from scientific journals. The Diversity of Pleco Types at the River Stream Area of Ciliwung The relationship between the number of types and individuals can be stated in Diversity Index. To determine the fish diversity, Shannon-Wiener index was employed (Ludwig dan Reynold, 1988): H' = - Σ pi ln pi Notes: <u>H' = Shannon-Wiener Diversity</u> <u>Index n</u> = The <u>number</u> (i) <u>of</u> individual <u>species N</u> = The <u>number of individuals</u> from all <u>species</u> The scoring cirterion based on diversity types is: H' < 1 = Low<u>diversity 1 < H' < 3</u> = Moderate <u>diversity H' > 3 = High diversity The</u> Density of Pleco at the River Stream Area of Ciliwung The density of pleco is calculated using the following formula (Barus, 2004): Di = Xi / Ni Notes: Di = Density (individual/m) Xi = Total number of individual Ni = Total number of area Results The diversity index calculation result towards 1.401 plecos gained from the three locations at Ciliwung River, resulted in the value of H' equal to 0 (zero). It can be stated that the diversity of pleco in Ciliwung River is low. The Diversity Index (H') is categorized low if, based on the identification result, it is only found one species of pleco in the three locations along the river stream area of Ciliwung River in Jakarta, namely Pterygoplichthys pardalis. Morphologically, pleco's abdomen has big white spots pattern with merged patterns that are attached together to its sucker-mouth beneath (Page & Robins, 2006). Rosnaeni, et al. (2017) research is a DNA analysis of barcodes CO1 in the fragment's length of 650bp supports the identification result of Pterygoplichthys pardalis, that even though there are diverse abdomen patterns of the found plecos, all is from one species that is P. pardalis. Identification result of the abdomen pattern on plecos from the three locations of Ciliwung River shows matched result with the research conducted by Wu et al. (2011). The pleco species in Indonesia has a different abdomen pattern. P. pardalis has black spots abdomen pattern (in the shape of commas or dots), P. disjunctivus has curved patterns, meanwhile the inter-grade species has a combination pattern between inter-grade or hybrid species. The three different patterns of the abdomen can be characterized as one type of pleco in the family of Loricariidae that is P. Pardalis. Two different patterns on its head (geometrical light stripes pattern and spots and blotches patterns) that could be identified by Armbruster and Page (2006) show that the two characteristics are the morphological characteristics of P. Pardalis species. The difference in the two lateral patterns (merged patterns forming chevrons (<) and separated patterns and do not create chevrons) also shows the morphological characteristic of P. Pardalis species. The result is supported by a statement that the different patterns between the abdomen patterns on pleco are not the main characters to identify the type of pleco (Rosnaeni, et al., 2017). Density of pleco population in Ciliwung River in the three locations results in different values. At the first station, it has the density value of 58 ind/m2, at the second station it has the density value of 80 ind/m2 and at the third station it has the density value of 36 ind/m2. The average number of pleco density population in Ciliwung River is 58 individu/m2. This shows that the density of pleco in this research is higher than the number of population that was found in Halwa's research (2016) that was 22 individuals. The biggest density value was found at the second station that is around 80 ind/m2, meanwhile the lowest is at the third station for only 36 ind/m2. The biggest density value at the second station is caused by the number of individual species of Poecilia reticulate and Mystacoleucus marginatus is lower than the number of individuals at the first

and the third stations. It is caused by the interaction between pleco and the species of Poecilia reticulate and Mystacoleucus marginatus. An interaction occurred in a population can be in the form of competition if among organisms from the same or different type use the same resource. If an organism uses the same resources, then every organism has to compete to feed themselves to survive and to grow. The abundant number of pleco in Ciliwung River is probably due to an excellent interspecific competition in taking advantages of food resources with other fish in Ciliwung River such as Poecilia reticulate and Mystacoleucus marginatus. Supported with a statement coming from Josefsson and Andersson (2001), the aggressive characteristic to get food performed by Pterygoplichthys pardalis when they were present at certain locations so that they could change another community in a water area may cause the decline of fish and invertebrate populations. According to De-Merona (2004), the fish population number is also affected by the number of food resources in the water. Pambudi et al (2016) states that there are 5.834 individuals of phytoplankton. This shows that the fish population in every station is influenced by the existence of phytoplankton in Ciliwung River. The biggest population number is gained at the second station for 80 ind/m2 because the water condition is at its optimum point for the life of phytoplankton. The condition is influenced by the speed of the stream. At the second station, the speed of the stream is found lower than the first and third stations. According to (1988) a water area that is relatively placid is suitable for the habitat of phytoplankton. For the number of stream speed at the second station is 0,4 m/s lower than the first station for 1,5 m/s and the third for 2,1 m/s so that at the second station, it has a relatively placid stream. A research by Pambudi, et al. (2016) figures out that most phytoplantons in Ciliwung River are highly- tolerated phytoplankton such as Navicula, Nitzschia, Synedra, Cymbella, and Fragilaria. According to Krebs (1972), the existence of a fish in a water area is heavily influenced by the presence of predators. The pleco's body has several adaptations to predators that have hard bones and are able to regenerate its pectoral, so that pleco is not hunted by other fish living in Ciliwung River and become the competitor by original fish to get some food, additionally to its life cycle (Sinha, et al., 2010). The research results of Rice et al. (2007) and Power (1984) state that a predator from P. pardalis species is not from other fish type but from reptiles such as snakes and freshwater turtles, birds, and also human (Aguiar & Di-Beernardo, 2004) (Bonino et al., 2009) (Nico, 2010). The cause of the high density of pleco for 80 ind/m2 in Ciliwung River at the second station is because few local people along the riverbank to do activities of fishing or catching fishes compared to the first and third stations. For instance, the act of catching fish commercially to invasive fish of Pterois volitans has proven to help inhibit the Pterois volitans fish population growth (Barbour et al., 2011). Cause of the high density of pleco in Ciliwung River at the third station is the low number of predator individuals. It is proven by a research by Rusmendero, et al (2009) that describes no finding of bird prey based on the composition analysis of bird types at Kalibata Station and at other stations in South Jakarta. The low number of pleco predators at the three stations enable pleco at the third station to have high density. Acknowledgements Thank you to the Ministry of Research and Higher Education that has funded the University Excellent Applied Research in the year of 2018 and University of Al Azhar Indonesia Grant International Seminar 2019 that has funded to become presenter in BioEco 2019 Symposium in Istanbul Turki. Thank you to all parties that have helped out the research from the beginning of the research until the sampling activity and also this paper writing. References Barbour A B, Allen S M, Frazer K T, Sherman D K. 2011. Evaluating the Potential Efficacy of Invasive Lionfish (Pterois volitans) Removals. https://journals.plos.org/plosone/article? id=10.1371/journal.pone.0019666 Bonino M, Lescano N J, Haro G J & Leynaud C G. 2009. Diet of Hydromedusa tectifera (Testudines- Chelidae) in a mountain stream of Córdoba province, Argentina. Amphibia-Reptilia 30(4):545-554 Armbruster, J.W., Page, L.M. (2006):Redescription of Pterygoplichthyspunctatusand description of a new species of Pterygoplichthys(Siluriformes: Loricariidae). Neotropical Ichthyology.4(4): 401-409 Barus, T. A. 2004. Pengantar Limnologi Studi Tentang Ekosistem Air Daratan. Medan: USU Press. Chapin F S, Sala O. E, Bruke C I & Roy J. 2000. Ecosystem Consequences of Changing Biodiversity. BioScience 48(1). Elfidasari

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