

Review Form 1.7

Journal Name:	Asian Journal of Fisheries and Aquatic Research
Manuscript Number:	Ms_AJFAR_96092
Title of the Manuscript:	Capture Area Compatibility with Map of Fishery Potential Area Based on Chlorophyl-A And Sea Surface Temperature in Aru Sea Waters- Indonesia
Type of the Article	Original Research Article

General guideline for Peer Review process:

This journal's peer review policy states that **NO** manuscript should be rejected only on the basis of '**lack of Novelty**', provided the manuscript is scientifically robust and technically sound. To know the complete guideline for Peer Review process, reviewers are requested to visit this link:

<https://www.journalajfar.com/index.php/AJFAR/editorial-policy>

Review Form 1.7

PART 1: Review Comments

	Reviewer's comment	Author's comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p>Compulsory REVISION comments</p> <ol style="list-style-type: none"> 1. Is the manuscript important for scientific community? (Please write few sentences on this manuscript) 2. Is the title of the article suitable? (If not please suggest an alternative title) 3. Is the abstract of the article comprehensive? 4. Are subsections and structure of the manuscript appropriate? 5. Do you think the manuscript is scientifically correct? 6. Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. <p><u>(Apart from above mentioned 6 points, reviewers are free to provide additional suggestions/comments)</u></p>	<ol style="list-style-type: none"> 1. Yes, because the changes in fishing grounds are currently irregular and no longer even follow the correct seasonal pattern. Conventional determination of seasons and fishing grounds using based on natural signs. Fishing ground research that continues until it can answer the real-time conditions is needed, this study tries to detect fishing grounds without relying on conventional knowledge. Although there have been many studies like this, in this article the author tries to research in different areas and only focuses on two variables (independent). For author, please explain, why are only two variables used? 2. It's already close to suitable. Maybe it would be more appropriate to use the title "Capture Area Compatibility Based on Chlorophyl-A And Sea Surface Temperature in Aru Sea Waters-Indonesia. 3. Too many words in abstract (exceed 300 words), not yet comprehensive (Aims, Study design, Place and Duration of Study, Methodology, Results, and Conclusion), and use foreign abbreviations such as KM. what does KM mean?, abbreviation should be given in parentheses at first use in the text. Therefore, the following few sentences in the abstract may be considered not to use. <p>ABSTRACT</p> <p>The Republic of Indonesia's Fisheries Management Area (Wilayah Pengelolaan Perikanan Negara Republik Indonesia) marine waters is an area with high capture fisheries potential, reaching 20% of the national fish potential. Fishing is often hampered by the lack of information related to Fishing Potential Zones, resulting in reduced efficiency. The solution offered is to utilize geographic information systems (GIS) or remote sensing with aqua MODIS satellite images of chlorophyll-a and sea surface temperature as data for mapping potential fishing zones. The objectives of this research are to understand the operation of purse seines, analyze the influence of sea surface temperature and chlorophyll-a on purse seine catches, and determine the level of suitability of fishing areas with maps of potential fishing zones. To answer the objective, non-experimental based applied research was conducted with a case study approach, survey method and correlation approach to determine the effect of chlorophyll-a and sea surface temperature variables on catches. Based on the results of research with small pelagic purse seine vessels with fish collecting aids using FADs and attractor lights with the main catches being Deles flyfish, mackerel, Bengal flyfish and lemuru. As for the results of statistical testing, there is an influence of chlorophyll-a and sea surface temperature simultaneously and partially on the catch by giving an influence of 73.6%. With the distribution of chlorophyll-a concentration and sea surface temperature in the KM fishing area. The level of conformity of fishing areas with maps of potential fishing zones on fishing trips from December 2020 to April 2021 reached a percentage of conformity of 55.93% with a total catch of 209,360 Kg. This research indicated the selection of fishing areas using aqua MODIS satellite imagery can be categorized as good even though it only relies on experience and information about fishing areas. Indicating the selection of fishing areas by conventional skippers on KM XXX compared to the forecast of fishing areas using aqua MODIS satellite imagery remote sensing technology can be categorized as good even though it only relies on experience and information about fishing areas from other vessels.</p> <ol style="list-style-type: none"> 4. Subsections and structure of the manuscript not appropriate (see paper template) 	

Review Form 1.7

	<p>5. Yes</p> <p>6. The references are sufficient and recent.</p> <p>7. Points that need to be considered:</p> <p>a. Please to describe what the hypothesis that used?</p> <p>b. In the materials and methods section there is a sentence “As an indicator in this study is the effect of independent variables on the independent variable either partially (each independent variable on the independent variable) or simultaneously (together) and the amount of influence of both on the independent variable (chlorophyll-a and sea surface temperature on catch)” are not clear. What you want to explain here, independent on independent variable or independent on dependent variable?</p> <p>c. What are the criteria for each independent variable that is a reference in determining the fishing potential zone? Please explain in the method.</p> <p>d. Please describe how to compare the chlorophyl, SST, and catch data become suitability map?</p> <p>e. In the Fishing Area Suitability Map section, second paragraph, there is a sentence “based on the diagram above”, but in the manuscript no diagram is shown. Can you explain it?</p> <p>f. Explain in the article what is the novelty of this study.</p>	
<p>Minor REVISION comments</p> <p>1. Is language/English quality of the article suitable for scholarly communications?</p>	Enough	
Optional/General comments		

PART 2:

	Reviewer’s comment	Author’s comment (if agreed with reviewer, correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
Are there ethical issues in this manuscript?	<i>(If yes, Kindly please write down the ethical issues here in details)</i>	

Reviewer Details:

Name:	Zainal Wassahua
Department, University & Country	Indonesia