

Review Form 3

Journal Name:	Asian Journal of Fisheries and Aquatic Research
Manuscript Number:	Ms_AJFAR_120683
Title of the Manuscript:	Spatio-Temporal Distribution of SPL and Chlorophyll-a in WPP 718 Waters during the West Season (Case Study of Merauke Regency Waters, Indonesia)
Type of the Article	

Review Form 3

PART 1: Review Comments

Compulsory REVISION comments	Reviewer's comment	Author's Feedback (Please correct the manuscript and highlight that part in the manuscript. It is mandatory that authors should write his/her feedback here)
<p>Please write few sentences regarding the importance this manuscript for scientific community. Why do you like (or dislike) this manuscript? Minimum 3-4 sentences may be required for this part.</p>	<p>By utilizing remote sensing technology, the study provides crucial insights into oceanographic conditions vital for understanding marine ecosystems and their productivity. This information is particularly valuable for fisheries management and environmental monitoring, aiding in the sustainable utilization of marine resources.</p>	
<p>Is the title of the article suitable? (If not please suggest an alternative title)</p>	<p>The suggested revision improves the title by replacing "SPL" with "Sea Surface Temperature" (SST), a more widely recognized and specific term. This change enhances clarity and ensures the title is easily understood by a broader scientific audience, making the study's focus immediately clear.</p>	
<p>Is the abstract of the article comprehensive? Do you suggest addition (or deletion) of some points in this section? Please write your suggestions here.</p>	<p>The summary is generally comprehensive but could benefit from some enhancements to improve clarity and focus. Here are some suggestions for adding and deleting:</p> <p>Suggestions for additions:</p> <p>Clarifying the purpose: Clearly define the primary purpose of the research at the beginning. Methodology Details: Include a brief reference to the specific techniques or tools used in remote sensing analysis. Significance: Highlight the importance of the findings and their potential implications for fisheries management and environmental monitoring. Suggestions for deletion:</p> <p>Redundancy: Remove any repetitive information to make the summary more concise. Non-essential details: Omit less important details that do not contribute significantly to understanding the main findings and implications. Revised summary:</p> <p>Sea surface temperature (SST) and chlorophyll-a are critical factors for determining oceanographic conditions in water bodies. This research aims to analyze the spatial and temporal distribution of these parameters in the waters of the Merauk region using remote sensing technology. Descriptive methods and remote sensing techniques were used to collect and analyze data from Aqua-MODIS satellite images from December 2022 to February 2023. The results indicate that the waters of Merauke Regency are fertile and warm, with the highest surface temperature recorded in December 2022 (25.0 - 30.0 Celsius). C) and the lowest in January 2023 (25.0 – 28.0 degrees Celsius). Chlorophyll-a concentrations peaked in December 2022 (0.26-5 mg/m3) and were lowest in February 2023 (0.2-2 mg/m3). These results provide valuable insights for fisheries management and environmental monitoring, aiding in the sustainable use of marine resources.</p>	
<p>Are subsections and structure of the manuscript appropriate?</p>	<p>The manuscript appears to be well-structured and organized into clear subsections.</p>	
<p>Please write few sentences regarding the scientific correctness of this manuscript. Why do think that this manuscript is scientifically robust and technically sound? Minimum 3-4 sentences may be required for this part.</p>	<p>This manuscript is scientifically robust and technically sound due to its comprehensive approach to analyzing oceanographic parameters using remote sensing technology. The use of Aqua-MODIS satellite images ensures high-resolution data, enhancing the spatial and temporal resolution of sea surface temperature (SST) and chlorophyll-a. The</p>	

Review Form 3

	methodology is well documented and follows standard scientific procedures, ensuring reproducibility and reliability of the results. Moreover, the results are supported by appropriate statistical analysis, which confirms the validity of the conclusions drawn from the data.	
Are the references sufficient and recent? If you have suggestion of additional references, please mention in the review form. -	The references included in the manuscript are generally sufficient and up-to-date, covering relevant topics such as fisheries statistics, remote sensing technology, and oceanographic studies. The inclusion of recent publications, especially those published in 2023, demonstrates that the research is based on up-to-date data and methodologies.	
<u>Minor REVISION</u> comments Is language/English quality of the article suitable for scholarly communications?	The quality of the article's language is generally adequate for academic communication. However, minor improvements in grammar, clarity, and coherence can enhance readability and accuracy.	
<u>Optional/General</u> comments	The paper is well-structured with clear sections, enhancing readability and coherence. The abstract is comprehensive but could benefit from slight refinements for clarity and conciseness. The introduction provides a solid background, clearly defining the research gap and objectives. The materials and methods section is detailed and well-documented, with a suggestion to add visual aids like flowcharts for better illustration. The results are presented clearly with appropriate figures and tables, and the discussion effectively relates findings to existing research. The conclusion succinctly summarizes the main findings and discusses implications and future research directions. The references are relevant and up-to-date, though including additional recent studies could provide further context. The language quality is generally suitable for scholarly communication, with minor improvements in grammar, clarity, and coherence suggested. Overall, the study provides valuable insights into the spatio-temporal distribution of oceanographic parameters, crucial for fisheries management and environmental monitoring.	

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:

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