



26 April 2021

Dr. Ahmadi Admadi
Universitas Lambung Mangkurat Fakultas Perikanan dan Ilmu Kelautan
Jl. A. Yani km 36
Banjarbaru, South Kalimantan 70714
INDONESIA

Dear Dr. Ahmadi:

As Editor-in-Chief of the *International Journal of Biometeorology*, I would like to thank you for your service to our journal as a reviewer of "Management Policies for Freshwater Catfishes with consideration of climate change: A Case Study on *Mystus vittatus* (Bloch, 1794)". Your efforts in serving the biometeorological community are highly appreciated by the International Society of Biometeorology, and your dedication and efficiency in doing your review is appreciated by me.

Regards,

A handwritten signature in black ink, appearing to read "Scott Sheridan".

Scott Sheridan
Editor-in-chief, *International Journal of Biometeorology*

COMMENTS ON THE PAPER

Management Policies for Freshwater Catfishes with consideration of climate change: A Case Study on *Mystus vittatus* (Bloch, 1794)

By Ahmadi Ahmadi Reviewer 2

GENERAL

The manuscript reports the status of *Mystus vittatus* from the Ganges River in Bangladesh. The sex ratio, population structure, growth pattern, condition factor, sexual maturity, spawning season, fecundity, natural-mortality, and environmental factors of this economically important fish were also reported.

I recommended adding more information on length at first capture and selection factor of gill net in abstract, methodology, results, and discussion, as well as constraint and future challenges in conclusion.

Moreover, the authors must write in the methodology section the institutional animal care and use committee or similar body which supervised, guided, or allowed the author to conduct animal experiments. An alternative could be the disclosure of protocols that were followed in handling the animal samples.

In this regard, the manuscript needs a major revision before it becomes worthy of a full contribution to this journal. Additionally, the English needs to be polished grammatically. The specific comments are presented below.

SPECIFIC

The manuscript on *Mystus vittatus* fisheries could be a valuable contribution towards effort to maintain the sustainability of the fish in their natural habitat through better fisheries management policy. However, I found that the Ms need extensive revision before it can be accepted for publication. I list my comments below and hope the authors find it useful to substantially improve the quality of the Ms.

Major comments

1. Introduction, in the second paragraph, please add few lines mention about the annual fish production of *Mystus vittatus* and how many per cent its contribution to the total fish production.
2. Introduction, Page 5, line 184. Please briefly describe on specification of the gill net used (e.g. mesh size, net materials – monofilament/multifilament, the length and height of the net) and waters characteristic look like.
3. Introduction: The authors explain biological aspect and other information on *Mystus* species in this section, I suggest focusing to explore more on *M. vittatus*. Not many readers know about this fish.
4. Materials and methods: No information on Morphological characters of *M. vittatus* so far. The authors should mention this information in the Ms and insert a photograph of *M. vittatus*, as well
5. Materials and methods: Please add subtitle: Length at first capture (L_{c50}) and provide information in the manuscript since the fish were caught by the gill net, and then determine the value of selection factor for this species.

6. Materials and methods: The authors should explain on the abbreviation on each of the formula, for example: TL = total length, etc.
7. Results, line 264: Please add subtitles: Length at first capture and selection factor of gill net, and provide the results.
8. Discussion, page 9, start from line 334: The authors should also discuss about Length at first capture and selection factor for *M. vittatus* and compared to other *Mystus* species when they also caught by the gill nets. In concluding or recommending a fishing gear that might be used, it is very important to compare the value of L_{c50} with the size at first mature (L_{m50}). This is to ensure that the allowable fishing gears catch the spawned fish, in order to ensure the sustainability of the fish resources. Comparing the L_{c50} and size distribution only, is not sufficient yet. To conclude whether this mesh size is allowable or not, the L_{c50} curve need to be compared with length at first maturity (L_{m50}) curve.
9. Conclusion: please also add additional information on constraint being faced and future challenges for managing this species.

Minor comments

10. Abstract: line 44: population structure, growth pattern, condition, form factor
it should be population structure, growth pattern, condition factor, form factor
11. Conclusion: page 11, line 398: pattern, condition, form factor, size at first sexual maturity....
It should be pattern, condition factor, form factor, size at first sexual maturity...

Reviewer Recommendation and Comments for Manuscript Number IJBM-D-21-00035**Management Policies for Freshwater Catfishes with consideration of climate change: A Case Study on *Mystus vittatus* (Bloch, 1794)**Original Submission
Ahmadi Ahmadi **Reviewer 2**[Back](#) [Edit Review](#) [Print](#) [Submit Review to Editorial Office](#)**Recommendation:** Major Revisions Needed**Transfer Authorization**

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Response

No

If this submission is transferred to another publication, do we have your consent to include your original review?

No

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Response

Yes

Please rate the overall quality of the manuscript.

Very Good

Please rate the level of novelty and significance of the methods and results in this research.

Very significant

Reviewer Comments to Author

The manuscript reports the status of *Mystus vittatus* from the Ganges River in Bangladesh. The sex ratio, population structure, growth pattern, condition factor, sexual maturity, spawning season, fecundity, natural-mortality, and environmental factors of this economically important fish were also reported.

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Reviewer Confidential Comments to Editor:

You are welcome to provide grammatical suggestions, however you do not need to do so, and if the manuscript is in significant need of language editing to improve clarity, please just state this - it is by no means your duty to rewrite any portion of the manuscript.

Please summarize your reasoning beyond your ratings, comments, and recommendation. Disclose any potential financial or personal conflict of interests. If there are any aspects of the manuscript you do not feel comfortable reviewing, please state those here.

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