

Reply on RC1

Sazlina Salleh and Andrew McMinn

Author comment on "Tolerance of tropical marine microphytobenthos exposed to elevated irradiance and temperature" by Sazlina Salleh and Andrew McMinn, Biogeosciences Discuss., <https://doi.org/10.5194/bg-2021-18-AC1>, 2021

General comment:

The manuscript proposal and experimental design are good. This is an interesting study to evaluate the response of tropical benthic diatoms to high irradiance and temperature based on chl a and photosynthetic parameter analysis. Therefore, this manuscript is recommended for publication. However, there are minor correction need to be done. Please refer to the comments given below:

Abstract

The abstract was good, but what is the unit for recovery rates?

"The recovery rates for samples exposed to temperatures of 40°C were $4.01\text{E-}03 \pm 0.002$ (kindly put the unit here, If any) and decreased to $1.01\text{E-}05 \pm 0.001$ (kindly put the unit here, if any) at 60°C

Response: The unit for recovery rates is s^{-1} . See Line 24

Introduction:

Introduction is good

Materials and methods

Materials and methods are good

Results

Results are good

Discussion

Discussions are good

Conclusions

Conclusions are good.

References

References are good.

However if possible kindly update the citation/references and it should be the most current within 5 years

Response: Latest citation (within 5 years) has been added. However, most of the past references were maintained as they provide valuable information to this research.

Figure

For Figure 2 (a, b, d), kindly put the x-axis title or you can put the x-axis title at the last graph (Fig.2d) only

Response: x-axis title, which is temperature inserted.

See Line 595 Page 24